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News and Letters

55 AIA Component Awards
A sampling of state and local winners—Nora Richter

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Cover: Photograph by Allen Freeman of Richard Meier's Atheneum, New Harmony, Ind. (see page 125).

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Howmet's ideas and imagination

Specifications

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EVENTS

June 15-21: Daylighting Institute, University of California, Berkeley. Contact: Michael Wilde, Daylighting Institute, Lawrence Berkeley Laboratory, University of California, Building 90, Room 3111, Berkeley, Calif. 94720.
June 23-27: Advances in Color Technology Course, Rensselaer Polytechnic Institute, Troy, N.Y.
June 25-July 1: International Architecture Workshop, Kansas State University, Manhattan.
June 27: Deadline for letters of intent to enter, Owens-Corning Fiberglas annual energy awards program. Contact: Mary G. Reinbolt, Owens-Corning Fiberglas Corporation, Fiberglas Tower, Toledo, Ohio 43659.
June 27-29: Revitalization of Historic Neighborhoods Workshop, University of Wisconsin, Milwaukee.
June 30: Deadline for registration, international competition for students of architecture on the rehabilitation of a small unit in a degraded urban environment. Contact: Organizing Committee of the 14th International Union of Architects Congress, Foksal 2, B.P. 6-00-950 Warsaw, Poland.
July 2-8: Computer Graphics in the Design Profession Workshop, Kansas State University, Manhattan.
July 9-11: Understanding the Opportunities and Dangers of Nuclear Energy Course, George Washington University, Washington, D.C.
July 9-15: Energy and Community Workshop, Kansas State University, Manhattan.
July 13-18: Arts and Cultures of Native Norther Americans Workshop, Kampsville Archeological Center, Ill. Contact: Foundation for Illinois Archeology, Box 1499, Evanston, Ill. 60204.
July 17-20: North Carolina Chapter/AIA summer meeting, Wrightsville, N.C.

LETTERS

More About Iran Than Is in the News: There is an ironical twist to one of the principles laid down by Ralph Knowles in his excellent article, "Solar Access and Urban Forms" (Feb., p. 42).

In Teheran, and the more modern parts of other Iranian cities, residential streets run east to west. Houses on the north side of the streets—usually joined in continuous rows—are set back to the rear of the lots, behind a walled garden. The garden and the front of these houses receive maximum sunshine all winter long. (Teheran is at about the same latitude as New York City.) Houses on the south side of the street are built close to the street and have their gardens in the rear. Most of the garden and the rear wall of these (usually two-story) houses also receive maximum winter sunshine. This is the only consistent observation of solar principles at the city planning level that I have observed.

If you sketch a cross section of the Iranian arrangement of streets, houses and gardens, you will immediately be struck by its simple good sense. The equally spaced rows of houses it achieves (as opposed to the tendency in most row house schemes to place both rows of houses close to the street and to separate them on their rear sides with two deep garden spaces) offer increased privacy along with ideal solar orientation.

Now for the siting. The sketch will reveal that the Iranians have invented a scheme that assures that the streets will receive practically no winter sunshine.

I tend to feel that in the trade-off the Iranian scheme is better than the King of Spain's 45-degree street orientation, which is beneficial only if it is assumed that the traffic-way will be flanked by contiguous structures of two or more stories. I have shown, however, that a north-south street orientation 15 degrees off the compass is advantageous for single-story, free-standing houses (see Fitch's American Building: The Environmental Forces That Shape It, p. 102).

The Iranian scheme might also be improved, so far as the street is concerned, by leaving a shallow open space on the north side of the north-facing houses—expendiing a bit more land for this purpose. But it must be remembered that such a row house "front yard" would receive little sunshine except in summer.

In all of the above, it has been assumed that the architects of the houses have been sufficiently aware of solar orientation to develop quite different plans for the houses on opposite sides of the street. I'm not sure whether Iranian architects do this or do not, but I do know that they frequently attach glazed plant rooms to their houses, and never put them on the north side.

Henry Wright, AIA Wellfleet, Mass.

A Toast to Seattle: I would like to set the record straight regarding David Bowes' commendation on Seattle in his article "The Shaping of a City's Character" in the March issue (p. 52). He tried to portray Cincinnati as a conservative, traditional community with a solid economic base. His contrasting remark was: "Forget Seattle, Detroit and other towns with one crop economies." Seattle is not a "one crop town."

Boeing, without a doubt, is the major manufacturing firm, but Seattle is also the second largest container cargo port in North America. It also is the commercial, governmental, medical and cultural center for the Pacific Northwest and Alaska. Seattle probably has the soundest, most varied economy on the West Coast. Our economy is a blending of manufacturing, government and retail. Besides planes and missiles, we produce food, fish and lumber products, trucks, electronic components and projects for architects.

I think that Bowes' approach of relating a city's character to its economic base and architecture is admirable, but I wish he had done a little more research before making off-base commentary.

Keith L. Boe Seattle

Please note: The change of AIA headquarters telephone numbers has been postponed from May 31 to June 27. On that date, the main number will become (202) 626-7300 and all extensions also will be changed.
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The Call for Entries has full details. For your copy, write today to Mary Reinbolt, Department 125, Owens-Corning Fiberglas Corporation, Fiberglas Tower, Toledo, Ohio 43659. Or call her at this number: (419) 248-7419.
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Repository for Buddhist Temple In Japan Wins Reynolds Award

A treasury building for a Buddhist sect in Japan, designed by Shozo Uchii, is the recipient of the 1980 R. S. Reynolds memorial award, given annually in recognition of a "permanent, significant work of architecture, in the creation of which aluminum has been an important contribution." J. Rodgers Critz, fifth-year student at the University of Arkansas, is the winner of the 1980 Reynolds alumnum prize for architectural students for his design of a passive solar wall panel.

The Minobusan Kuonji Temple, sited at densely forested Mount Minobu in central Japan, is headquarters for the Nichiren sect of Buddhism. For more than 700 years it has been visited by worshippers. Its treasury building, erected to replace a deteriorated godown (warehouse), stores and preserves the temple's objects of religious faith—sutras, religious documents, statuary and art objects and other cultural possessions. The treasury, one of the temple's most important elements, necessarily has a spatial relationship in its siting with other buildings that make up the temple complex. Located at 1,625 feet above sea level in a deep forest, the treasury conforms to the natural topography, with its back abutting a steep cliff.

Uchii says that the problem of architectural form for the treasury was difficult because the structure had to be in keeping with the general image of Buddhist architecture, and yet make use of modern technology in fulfilling its function as a protector of priceless objects from humidity, natural disasters and crime. The problem was confounded by the site conditions of limited space and of weak ground base where there are frequent landslips. Also, many temple buildings in the past had been destroyed by forest fires.

The treasury is comprised of two small buildings, clad with cast aluminum panels, that are separated by a white granite stairway. "The main storage floor of the structures is raised above ground just more than the height of a human and is cantilevered from a concrete base forming a small open storage space under the building," says Ehrman B. Mitchell Jr., FAIA, chairman of the jury, on which Bill N. Lacy, FAIA, and Michael Austin-Smith, Hon. FAIA, of Great Britain also served.

The panels, says Mitchell, establish a "disciplined module appropriate for the size of the buildings." The size of the panels and their proportions and the raised horizontal ribs appropriately set the scale of the treasury. "They impart a very real sense of dignity and give a distinctive quality to the buildings. Their careful detailing and the high craftsmanship of their manufacture are truly representative of the symbolic importance of the treasury to the monastery."

Mitchell also comments on the detailing of the eaves that overhang the walls, saying they are reminiscent of early wood temple structures. Designer Uchii also says that it is the treatment of details that causes the treasury to exhibit the image that people "expect of a temple building." He mentions the copper roofing that not only reinforces the roof, but also enriches the building's architectural expression.

There is a triple wall system with double air layers. A concrete wall is sandwiched by a wooden interior wall and the cast aluminum skin. This triple wall system helps control humidity. There is natural ventilation and, except for electric lighting, there are no other mechanical systems.

The interiors are of Japanese cypress, covering floors, walls and the sloped ceilings that follow the rake of the roof. Storage cabinets and shelving to house the treasures are of the same material. "Fine craftsmanship has never been better demonstrated," says Mitchell.

The Reynolds prize for architectural students is awarded annually "for the best original design in which creative use of aluminum is an important contributing factor." The passive solar wall panel designed by J. Rodgers Critz uses aluminum louvers to block the summer sun and let in the sun in winter. The design provides a wafer of salt hydrates to provide ther-
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News from page 15

mal storage. The air that comes in from openings at floor level is heated between the salt wafer and a sandwich of aluminum/urethane foam insulation. The space created permits the heated air to rise and escape through automatic thermal valves at ceiling level and to circulate into the room by thermosiphoning. Critz says that the panels can be used in both small and large building projects for either new construction or adaptive use in existing structures.

Two honorable mentions were given: to Stephen Lu, a student at Pennsylvania State University, for an emergency shelter that could be brought into a disaster area by helicopter and to Tina A. Christiansen and James C. Cauthorn, students at Virginia Polytechnic Institute and State University, for the design of an "articulating solar shutter" to improve the energy efficiency of a window using reflective/insulative panels. Four certificates of excellence were given to Modesto Padilla, Texas Technical University; Robert Tad Silance, Cynthia Jean Cantwell, Walter James Montgomery and Philip Lance Kinda of Clemson University; Robert Condia and Wendy Orenelas-Condia, and to Faziu Ali, Jose Bon and George Hernandez, students at the University of Miami at Coral Gables, Fla.

29 HUD-Supported Projects Cited in 1980 Design Program

HUD's Secretary Moon Landrieu recently presented 29 design awards. The winners were chosen from more than 350 entries, all HUD-supported projects.

Honor awards for project design were divided into four categories—housing, community facilities, open space and downtown revitalization. Winners in the housing category were the Gardens Apartments, San Mateo, Calif. (Backen, Arrigoni & Ross, architect); Glencoe Apartments, Cincinnati (Goetzman & Follmer); Ponderosa Village, Camarillo, Calif. (Kamnitzer, Cotton, Vreeland); Villa Victoria, Boston (John Sharratt Associates), and Walnut Hill Apartments, Haverstraw, N.Y. (Smotrich & Platt).

The Butterfield Senior Center, Cincinnati (Smith-Stevens), was the sole winner in the community facilities category.

The open space category winners were Heritage Plaza, Salem, Mass. (Delta Group); Western Canal and Ecumenical Plaza, Lowell, Mass. (Paul C. K. Lu & Associates), and World War II Veterans Memorial Park, Woonsocket, R.I. (Albert Veri, landscape architect). Special mention went to Gas Works Park, Seattle (Olson/Walker, consulting architect; Richard Haag Associates, consulting landscape architect).

In the downtown revitalization category, awards were presented for the Gallery at Market East, Philadelphia (Bower Fradley Lewis Thrower); the pedestrian mall and revitalization program, Boulder, Colo. (Everett, Zeizel, Tumper & Hand), and the waterfront urban renewal project, Boston (administrative team of the Boston Redevelopment Authority).

Special mentions in this category were the Downtown Public Square, Wilkes-Barre, Pa. (Bohn Powell Brown Larkin Cywinski); New London (Conn.) Union Station (Anderson Notter Finegold), and the renovation of the central business district, Hudson, N.Y. (Historic Design Associates and Robert Pollack, AIA).

Honor awards for urban design concepts were given for the Cambridge (Mass.) urban environmental design process (administrative team for the Alewife and River Front development concepts) and the Coldspring new town, Baltimore (Moshe Safdie & Associates). Special mentions went to the downtown waterfront development strategy, Portland, Ore. (Zimmer, Gunsul & Frasca Partnership; Skidmore, Owings & Merrill; Allen, McMath, Hawkins; Architektgruppe) and to the Washington Avenue revitalization program, Miami Beach (Venturi, Rauch & Scott-Brown).

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The real workhorse of our commercial line is called Flor-Ever, which is engineered for durability at an extremely competitive price, making it the best value on the market. Also, Flor-Ever is styled and colored to meet your design needs.

In addition to our efficient 9' widths, all Congoleum commercial vinyl comes in 12' widths, too. So for every corridor or floor you specify, you'll find we have a beautiful solution.

For further information, call a Congoleum flooring contractor, Sweet's Toll-Free Buy Line (800) 447-1980, or write Director of Marketing, Congoleum Corp., 195 Belgrove Drive, Kearny, N. J. 07032.

The United States Davis Cup team is sponsored by Congoleum.

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Circle 16 on information card
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Seating in the Open Plan System should adapt to the working environment.

Chairs move. They impact against walls, work surfaces, tables, storage units and people.

The GF 570 chair is soft self-skinned urethane outside. Tough structural steel inside. It protects people and hardware.

Seven task-oriented models stand firm on four or five star bases; move freely on dual wheeled casters and absorb impact with flexing leg bumpers.

The 570's adjustable comfort settings adapt to varied human postures and scale. The gentle sloping of the seat edge reduces muscle tension and leg fatigue.

Available in three frame colors and a wide range of upholstery materials, it adapts to your open plan specifications.

The GF 570. Thick skinned and open minded.

The GF 570 Chair for the Open Plan System

Contact us for the Dealer nearest you. GF Business Equipment/Youngstown, Ohio 44501/216-746-7271

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More power to you.

Tempo 3 delivers. It's the open office system designed to manage the electronics explosion. Easily, Effectively.

**Real Capacity.** Our unique design offers four raceways in each panel base—room for up to sixteen 25-pair cables and six 20-amp circuits.

**True Flexibility.** Our modular wiring makes rearranging easy. Order pre-wired outlets on one or both sides, in the base or at desk height. And outlets can be added anytime.

So don't get caught with your power down. Let us show you all the advantages of Tempo 3. Call your Shaw-Walker representative. Or write Shaw-Walker, 935 Division Street, Muskegon, Michigan 49443.

SHAW | WALKER
News from page 20

tion were given for the Focus community development newsletter, Milwaukee (Milwaukee Department of City Development), Freeway Park, Seattle (Lawrence Halprin & Associates, landscape architect); the Gallery at Market East, Philadelphia (Bower Fradley Lewis Thrower); Japanese Village Plaza, Los Angeles (David Huyn Associates) and the old city study and facade easement program, Philadelphia (Philadelphia Historical Commission).

Special mentions in this category were awarded for the facade/rehabilitation grants program, Macon, Ga. (James P. Thomas and Brittain, Thompson, Olson & Bray, urban designers); housing development guidelines, Albuquerque, N.M. (Robert E. Strell, Albuquerque Housing Authority architect); Mount Hermon conservation and redevelopment process, Portsmouth, Va. (administrative team, Portsmouth Redevelopment and Housing Authority), and Pike Place Market, Seattle (George R. Bartholick, Karlis Rekevics, Fred Bassetti & Associates, Arnie Bystrom, Harader & Mebust Associates).

The jurors were Cincinnati Mayor J. Kenneth Blackwell; Donald Mehilburger, engineer and former mayor of Little Rock, Ark.; Pietro Belluschi, FAIA; Barry Elbassani, AIA; Mary Means, director of the National Trust for Historic Preservation’s main street project; Raquel Ramati, New York City Planning Commission, and Jerome Pratter, attorney. Andrew Euston Jr., AIA, HUD’s urban design adviser, assisted the jury.

News continued on page 32

HUD design awards: (1) the Gallery at Market East, Philadelphia; (2) east plaza, Freeway Park, Seattle; (3) downtown public square, Wilkes-Barre, Penn.; (4) the Japanese Village Plaza, Los Angeles.
An architectural crisis.  

Versacor: Robertson's response.

Acid rain had already begun corroding buildings in Scandinavia in the 1950s.

International in scope.
Acid precipitation has become an architectural crisis of international proportions. And it's a crisis that directly affects your buildings, wherever they may be.

Last year alone, three international conferences addressed the problem. A recent Scientific American article reported: "On an annual basis, rain and snow over large regions of the world are now from five to 30 times more acid than unpolluted rain. The rain of individual storms can be from several hundred to several thousand times more acid than expected."

What causes acid rain? Airborne sulfur and nitrogen pollutants (from automobiles, smelters, and power plants, among others), often traveling hundreds of miles before combin-
The global effects of acid rain.

Alabama—Average rainfall shifts from a normal pH 5.6 in 1956 to ten times normal acidity in 1972.
Alaska, Greenland, Arctic Circle—Springtime haze, at times as intense as Los Angeles smog, apparently caused by pollution in Japan.
Alleghehny National Forest, Pennsylvania—Acid storm more acidic than vinegar, pH 2.3.
Eastern U.S.—Average rains as acidic as tomato juice, individual storms as acidic as vinegar.
Minnesota—Boundary Waters Canoe Area lakes reaching critical acidity levels.
New Hampshire—Storm at Hubbard Brook measures pH 2.8, more than 500 times normal, acidic enough to seriously damage vegetation.
Nova Scotia—15 to 20% of lakes reported dead or with decreased fish population.
Ontario—140 lakes reported dead, 48,000 more throughout Canada are threatened over the next 20 years.
People’s Republic of China—Dead lakes reported, especially near Manchuria.
San Francisco, California—Dry acid fallout, even more potent than acid rain, able to eat holes in leaves and to corrode plastics.
Scandinavia—Earliest afflicted area, first studies in the 1950s. 5,000 lakes now devoid of fish life, annual liming of lakes to counter the acid problem.

ing with water vapor to form an acid solution, can fall unpredictably—perhaps on your latest building site.
The end of the non-corrosive building environment.
The fact is, almost every location—rural or urban, commercial as well as industrial—is now subject to ever-increasing corrosive attack from acid rain. Already stone, masonry, automotive finishes, and single-layer metal wall finishes are proving inadequate—in fact, even the timeless beauty of the Taj Mahal in India is beginning to deteriorate. It’s for this kind of world that Robertson created Versacor®. Versacor—beauty that’s proven itself in acid rain.

Robertson saw the necessity for a special product to meet the specific problems of metal walls and roofs in Scandinavia, where acid rain had already begun corroding buildings in the 1950s. Versacor was initially tested there and has outperformed every other paint system in over 10 years of exposure.

Now the Versacor multi-layer protective coating system, with its unique epoxy base coat, is available in the U.S. Versacor has been proven superior to competitive finishes in a battery of independent laboratory tests—especially the Kesternich test, an accurate predictor of resistance to actual acid rain conditions.

Available in flat wall and profiled shapes, Versacor can meet your most demanding aesthetic criteria for all kinds of buildings. And that’s essential—because all kinds of buildings now face the long-term challenge of acid rain.

For more information about Versacor, write to H. H. Robertson Company, Department J-5, 400 Holiday Drive, Pittsburgh, PA 15220.
The Denver National Bank Plaza is a beautiful example of the use of Alcoa® architectural sheet in a major curtain-wall project. An office complex consisting of a 26-story tower and two adjacent buildings, it was designed to meet the Denver Urban Renewal Authority exterior facade specifications. Alcoa supplied approximately 400,000 lbs of specially controlled 5005 alloy sheet to PPG Industries for fabrication and finishing of the spandrel panels. The pleasing natural aluminum finish is Alumilite 215, Alcoa 1 etched and anodized (AA-M10C22), providing a long lasting, corrosion resistant protective coating.

Bill Manning, PPG Branch Manager, sums up Alcoa's contribution to the project: "The Denver National Bank Plaza is typical of the quality and service we continually receive from Alcoa. From the supplying of high quality aluminum sheet to the furnishing of fine technical information and service, Alcoa plays an important part in our success in this field."

Let Alcoa help you on your next curtain-wall application. For more information, write Aluminum Company of America, 1208 Alcoa Building, Pittsburgh, PA 15219.
This 3/8" thick Romany® Paver meets all quarry tile performance standards... and more.

Even though Romany Pavers are 3/8" thick, they exceed all current A-137.1 performance standards for 1/2" quarry tile. When measured against seven physical properties, ASTM test results show that Romany Pavers are stronger, more durable, and of consistently high quality thanks to a rigidly controlled, dry-press manufacturing process.

The unglazed, smooth surface of Romany Pavers makes it ideal for interior and exterior floors, walls and other surfaces in institutional, commercial and residential applications. Rich, earth-tone colors like flashed or blended red, brown and camel, provide a truly natural look.

In addition, Romany Pavers can be used with our unique Orsan Heavy-Duty tile which is also 3/8" thick, to provide unusual and imaginative designs. Sizes include 6" x 6" and 3-5/8" x 7-5/8".

For details on Romany Pavers, contact your Romany-Spartan distributor. Or write United States Ceramic Tile Company.
**First 'Railroad and Environment' Awards Go to 18 U.S. Projects**

There are nine winners of "outstanding achievement" and nine of "special achievement" awards in the Federal Railroad Administration's first design awards program, "The Railroad and Its Environment." The program is aimed at showing that the railroad community "is effectively combining its facility and equipment needs with good design, energy consciousness and more efficient operations," says John M. Sullivan, FRA administrator. "The results of our first program were very encouraging. The range of the entries was impressive and the quality was consistently high."

The winners of outstanding achievement awards are:

- Architecture/urban design and joint development categories: Providence (R.I.) Capital Center; Skidmore, Owings & Merrill.
- Intermodal, urban design and preservation categories: Hartford Union Station; Tai Soon Kim/Hartford Design Group.
- Preservation and enhancement of an architecturally significant railroad facility category (three recipients): Wilmington (Del.) Station; Skidmore, Owings & Merrill. New London (Conn.) Union Station; Anderson Notter Finegold, Inc.
- Baltimore & Ohio Railroad Museum; Cochran, Stephenson & Donkervoet.
- Inclusion of works of art category: Baltimore Penn Station mural; Donald Duncan.
- Innovative freight intermodal facility or classification yard category: Pride (Alaska) Transloader; Southern Railway Co.
- Equipment design category (two recipients): Santa Fe Railway ten-pack fuel foiler; shops of Santa Fe Railway, Topeka, Kan. Operations Control Center for Port Authority of New York/New Jersey; Sundberg-Ferrar and Gibbs & Hill.
- Special achievement award winners are:
  - Preservation and enhancement of an architecturally significant railroad facility category: Station Square, Pittsburgh; Pittsburgh History and Landmarks Foundation.
  - Joint development and preservation categories: Duluth (Minn.) Depot; William Moser, AIA, and Donald Melander, Melander & Melander.
  - Inclusion of works of art category: Penn Station, Baltimore, sculptural fence and windscreen; William Leizman.
  - Equipment design category (three recipients): Roadrailer bimodal rail-truck trailer; Bimodal Corporation; Solar Powered Signals; Communications & Signals Department, Southern Railway Co. Union Pacific storage and dismantling facility, Pocatello, Idaho.
  - Community involvement and contribution category: Jackson (Mich.) Rail Depot.

Jurors were Stanley Allen, AIA, president of Harry Weese Associates, Chicago; Donald Canty, editor, AIA JOURNAL; Paul Weidlinger, general partner, Weidlinger Associates, New York City, and Rogers E. M. Whitaker, contributor on transportation subjects to *The New Yorker.*

**John Andrews Wins Competition For INTELSAT Headquarters**

The Sydney, Australia, architectural firm of John Andrews International has won an invitational competition for the design of the new headquarters building in Washington, D.C., of International Telecommunications Satellite Organization (INTELSAT). The selection was made by an assessment panel, which included architects chosen with the assistance of the International Union of Architects—Pietro Belluschi, FAIA, of the U.S., John Michael Austin-Smith of Great Britain and Marco Zanuso of Italy—and five senior management representatives of INTELSAT. Paul Spreiregen, FAIA, chairman of the Institute's competitions committee, was professional adviser to INTELSAT.

Six architectural firms from a list of nearly 100 who had indicated to INTELSAT their willingness to compete were chosen for the invitational competition by INTELSAT and a panel of architects from Australia, France and the U.S. The six firms to present design proposals were Arthur Erickson Architects, Canada; Hellmuth, Obata & Kassabaum, St. Louis; Hentrich, Petschnigg & Partner, West Germany; Holabird & Root, Chicago; Raili & Reima Pietilae, Finland, and John Andrews.

The headquarters building has been designed for an eight-acre portion of a 12-acre site in northwest Washington, on Connecticut Avenue. The site is part of the so-called international center complex, and is owned by the U.S. government. Originally intended for occupancy by the Organization of American States, which decided to locate elsewhere, the site's availability to INTELSAT will depend upon the State Department's obtaining permission from Congress. In the event the desired site is not available, continued on page 39
Owners:
Allen Center Company—
A Joint Venture of
Century Development
Corporation, American
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and Centennial Equities
Corporation (a subsidiary
of Metropolitan Life
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Architect:
Lloyd Jones Brewer
Associates.

Structural Engineer:
Ellisor and Tanner, Inc.

General Contractor:
Miner-Turner, A Joint
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Dederick Construction
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All of Houston, Texas.
Only steel made possible a major redesign in Houston's newest Allen Center building.

When the steel for Allen Center's newest building, a 50-story, 1.3-million square foot tower, was almost half erected, a major downtown banking institution, Capital National Bank, requested a large block of space on the lower floors. To accommodate the bank's needs, the floors were redesigned to provide an open atrium-like area for banking and office levels. This major redesign was only possible because of the building's steel frame.

The imposing, bronze-tinted Capital National Bank Plaza building is one of Houston's tallest skyscrapers, a $100-million addition to Allen Center—a $1-billion complex in the central business district.

Steel Tubular Design Frame

The steel tubular design frame—the first of its kind in Houston—is made up of 54 perimeter tree columns on 10-foot centers.

Two stories high, these narrow prefabricated assemblies of exterior columns and exterior beams not only help reduce construction time but provide more window area, enhancing the leasability of the space.

The building's unusual eight-sided shape, intended to provide tenants with a variety of views and extra corner offices, also created eccentric wind loadings which are more efficiently handled by tubular design. 16,500 tons of steel went into the building—most of it supplied by U.S. Steel.

The unique story of this newest Allen Center tower is one more example of the flexibility of structural steel. In this case it permitted redesign and changes in a part of the structure already completed; without affecting the scheduled opening date of June, 1980.

To find out more about this building, and for information regarding the many applications for structural steel, contact a USS Construction Representative through your nearest U.S. Steel Sales Office. Or write for the USS Building Report (ADUSS 27-7675-01) to P.O. Box 86 (C1269), Pittsburgh, PA 15230.
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Open plan designs to set your imagination free. Alma. This AD office system, plus desks and seating, all designed for the designer.

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Circle 24 on information card
Attractive home on Cape Cod, Massachusetts; Architects Bedar & Alpers, Boston, Massachusetts; Wood siding and wood trim treated with Cabot products.

Wood and Cabot's Stains...made for each other

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Here is a wood at its wonderful best. The architect, in specifying a finish for this home, sought beauty and more...a finish that would stand up to summer sun and winter cold, that would require minimum maintenance while protecting the wood for a long, trouble-free life. His choice: Cabot's Stains.

Cabot's Stains, in 87 unique colors, enhance the wood grain, grow old gracefully, never crack, peel, or blister...are ideal for shingles, siding, clapboards, paneling, and decking. In terms of natural beauty, economy, and ease of application, Cabot's Stains are best for all types of wood, exterior or interior, and all wood surfaces, smooth, striated, or rough-sawn.

Cabot's patented colloidal manufacturing process assures exacting standards of color, deep penetration, and wood preservation. In a world that is constantly shouting "new," Cabot's Stains are very proud to be "old, the original, and still the best."

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Circle 25 on information card
SEAL UP PENETRATIONS IN HIGH RISE FIRES!

THERMAFIBER® Safing Insulation effectively cuts off fire at utility cut-outs in multi-storied buildings—keeps flames from spreading floor to floor. A recent 2½-hour fire test employing THERMAFIBER Safing Insulation dramatically proved the remarkable capabilities of this unique fire-stopping material. THERMAFIBER Safing Insulation was used to seal openings of various sizes. These openings provided access for steel pipe, copper pipe, steel conduit, metal air ducts and power transmission cables run through a fire-rated floor.

For convincing test results, fire containment ratings and other specifics, call your U.S.G. Representative. Or write to us at 101 South Wacker Drive, Chicago, Illinois 60606, Dept. AJ 580C.
INTELSAT says that Andrews will be retained to design its headquarters building elsewhere.

The building, which will contain offices, operations center, satellite control tower, conference areas and other facilities, is composed of a series of 85x85-foot "pods," each about four or five stories high (rendering above). The arrangement permits an interior core, 45x45 feet, resulting in a daylit periphery constituting 70 percent of the pod's floor area, with the interior core being 30 percent of the area. "These figures reflect exactly the functional division of INTELSAT's office floor area needs," says the organization.

Stacked vertically, the pods are connected diagonally at the corners, creating a series of interior atriums. The pod configuration is also used for assembly areas, delegates lounges and offices and satellite technical facilities. The arrangement gives the workers natural daylight and views of the surrounding site or into the atriums, where there will be pools of water to cool the summer air.

INTELSAT says the atriums, maximum use of natural daylight, individually serviced pods, sun screens, pools and trees in the surrounding parks will make the building highly energy efficient, requiring only 24,500 BTUs per square foot per year, compared to the typical office building in Washington that requires an energy budget of 65,000 BTUs.

Overall cost of building and landscaping is expected to be about $30 million, and it is hoped that the building will be completed by 1983.

Concrete Reinforcing Steel Awards Include Energy Citation

There are five winners in the Concrete Reinforcing Steel Institute's annual design awards program, which recognizes "creative achievement in esthetics, engineering, functional excellence and economy." This year's program includes an award for energy conservation, which goes to the Douglas County Correctional Center in Omaha (Dana Larson Roubal & Associates of Omaha and Phoenix, architect and structural engineer).

Other winners are:

- Reunion Tower, Dallas (Welton Becket Associates, Los Angeles, architect and structural engineer).
- Chapel of Thanks-Giving Square, Dallas (Philip Johnson & John Burgee, New York City, architect).

Plywood Association Selects 13 Projects for Design Honors

Thirteen projects were recently honored by the American Plywood Association and Professional Builder & Apartment magazine in the ninth annual plywood design awards competition.

The first award in the single-family house category went to Charles M. Sieger, AIA, for his Miami residence (see page 174). Citations of merit were awarded to Paul Silver, AIA, Gruzen & Partners, for the Silver residence, White Plains, N.Y.; Rowe Holmes Associates Architects, Inc., for the Logan residence, Tampa, Fla.; Robert C. Goodwin for his Jacksonville, Fla., residence, and Rafael Franco for his Los Angeles residence.

Top winner in the multifamily housing category went to Fisher-Friedman Associates for the Orchard, Citrus Heights, Calif. Citations of merit were awarded to Mark Litwin & Jon Quint, Land Development Systems, Inc., for the Oaks, Walnut Creek, Calif.; Lorenzo D. Williams, FAIA, Williams/O'Brien Associates, Inc., for Findley Place housing, Minneapolis, and Donald MacDonald, AIA, for Russian Hill town house, San Francisco.

The first award in the commercial/institutional category went to Henry Hornfisz, AIA, for the Health Center for Rutgers Community Health Plan, New Brunswick, N.J. Citations of merit went to John P. Clarke, AIA, and Fred Trasivano, AIA, for the Cooper Field Bathhouse, Trenton, N.J.; Patrick M. Sullivan, AIA, for the San Luis Obispo (Calif.) County Airport Fire Station, and to Warren Douglas Thompson, AIA, & Andrew J. Kerr, AIA, the Thompson Architectural Group, Inc., for the Thomas Luckey Construction Co., Inc., office building, Stockton, Calif.

Jury members were John D. Bloodgood, AIA, Homer Delawie, FAIA, and E. Fay Jones, FAIA.
Leadership in technology.
Plastics, metal, glass, masonry; different construction materials require different sealants. General Electric now offers a broad line of silicone sealants based on different technologies so you can specify the GE silicone sealant designed to meet specific application needs.

For glazing, there's the newest GE silicone sealant, Silglaze® 2400. This low-modulus, translucent silicone sealant provides a good balance between tooling and curing time.

For weatherproofing, GE Silsput® silicone sealant provides a low modulus, primelss seal for masonry-to-masonry and masonry-to-metal joints. And for high performance glazing, GE 1200 silicone sealant offers excellent adhesion, weatherability and elasticity.

To find out how the GE Silicone Seal offers an outstanding combination of technology, products, quality and service, write General Electric Co., Silicone Products Div., RTV Products Dept., Section 463, Waterford, N.Y. 12188.

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At the edge of your imagination is a world cut off from harsh reality. Sun, steam, soft rain, and gentle breezes obey your every whim, restoring body and soul in the enclosed environment of Habitat™. Includes interior control panel, acrylic interior surface, cypress deck, and a variety of options. For more information about Kohler products, write: Kohler Company, Dept. AA, Kohler, Wisconsin 53044.

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You now have a better choice.
THE ANSO ALTERNATIVE

Now you can get it all. Fashion and Performance. The most exquisite fashion... in patterns, plusses and berbers... combined with the rugged reliability of Anso-X® Nylon.
Summary of the Year's News

From building energy performance standards to AIA's debate over a new statement of ethical principles, the following is a compilation of events of the past 12 months considered important to the profession. Topics begin with energy (below), followed by the economy, the environment, government, cities, preservation, AIA and ethics.

Energy: Introduction and Fine Tuning of Building Performance Standards

Late last year the Department of Energy issued its proposed energy performance standards for new commercial and residential buildings. National compliance with the standards would reduce energy consumption by 22 to 51 percent in residential buildings and 17 to 52 percent in commercial buildings, DOE estimates.

The building energy performance standards (BEPS) would limit the amount of energy a building could consume, expressed in BTUs per square foot per year. A building would be tested at the design stage rather than by actual performance (thus the term design energy budgets).

Energy codes now in use, such as the American Society of Heating, Refrigerating and Air-Conditioning Engineers' standard 90-75, apply to the thermal characteristics of individual parts of the building. BEPS would apply to the building as a whole. The amount of the design energy budget would vary according to building type, climate zone and type of fuel used (see Jan., p. 22).

AIA has supported the concept of BEPS since it was first suggested in 1974. More recently, the AIA task force on BEPS has focused on a detailed analysis of BEPS and how it would affect the architectural community. A brief summary of its findings follows. The performance-oriented BEPS would allow for more flexibility in design, which in turn would encourage design creativity and innovation. Regionalism would be a major benefit. Since BEPS contains no built-in preference for certain building materials or technology, this could encourage manufacturers and product suppliers to develop new energy efficient products. Natural design elements—daylighting, solar heat gain, trees, landscaping—would begin to have greater significance.

While BEPS has received the support of many design, engineering, construction, energy and consumer organizations, most groups singled out specific problems that they felt made the standards unworkable as written. At DOE hearings in six cities in March and April, specific complaints were voiced concerning the implementation of BEPS, equivalency between BEPS and ASHRAE 90-75, the proposed energy budgets, the role of passive and active solar energy, the fuel type weighting factors, evaluation of a project's energy budget, additional design and construction costs imposed by BEPS (see May, p. 11). DOE expects to present the final proposed rulings of BEPS in August.

Conservation has been singled out by various energy studies as being of prime importance in solving the energy crisis. Energy Future: Report of the Energy Project at the Harvard Business School (Random House), edited by Robert Stobaugh and Daniel Yergin, concluded that conservation and the use of renewable resources are the only viable solutions to the energy crisis. "The key to correcting our bias toward fossil fuels and nuclear power is by offering comparable incentives to solar energy and conservation," said the authors. The first major government-sponsored study to conclude that conservation offers the greatest potential for easing the nation's long-range energy problems was issued by the National Academy of Sciences. "Conservation should be given the highest priority in a national program, although it alone cannot solve our energy problems," says the report based on the study. "To meet our electrical energy needs for the next 20 years, the nation will have to rely on coal and nuclear power."

The case for renewable resources is advocated by Barry Commer in The Politics of Energy (Alfred A. Knopf). He finds coal and conventional nuclear power unacceptable because they are inherently uneconomical. The answer, he maintains, is to develop solar and other renewable resources.

At the Dumbarton Oaks Symposium on the Dynamics of Energy Efficiency, held under the auspices of the Alliance to Save Energy, participants concluded that the full potential of improvements in energy efficiency has not been realized. This is due to "confusing signals from the political and economic environment," the lack of capital to invest in the retrofit of buildings, lack of commitment by the industrial sector and lack of knowledge of energy costs, among others.

A hindrance to any substantial energy conservation efforts or to any technical breakthroughs may be that most Americans don't believe there is an energy crisis in the U.S. At least that didn't in 1978, according to the report "Public Opinion about Energy: A Literature Survey," prepared by the staff of the Solar Energy Research Institute. Although about 40 percent of the people surveyed perceived the situation as "serious," they viewed inflation, unemployment and crime as matters of graver concern. A majority thought that the nation faces energy shortages and rising energy costs, but a large minority said that the problem is contrived by oil companies and the federal government. A smaller number blamed the OPEC countries, industry, business and environmentalists as contributors to the energy problems.

However, there are some encouraging signs. A study prepared by the Office of Technology Assessment, entitled "Residential Energy Conservation, Volume 1," reported that residential energy use which grew at an annual rate of 4.6 percent in the 1960s has declined to 2.6 percent since 1970. The primary motivation for the reduction is seen as the desire on the part of the consumer to reduce rising energy costs—achieved principally through a change in energy habits.

On the local level, the city of Portland, Ore., adopted a comprehensive and aggressive energy policy, which was largely developed by a broad-based citizen participation. The policy calls for the retrofit of existing buildings to make them as energy efficient as possible, that renewable energy resources and alternative energy systems should be given first priority in new building projects, that administrative obstacles to the installation of solar and waste heat systems be removed, among others.

On the national level, President Carter signed into law in April the windfall profits tax on the oil industry, which is expected to raise at least $227.3 billion in 10 years. The law calls for $136.4 billion in income tax reductions, $56.8 billion to help low-income families deal with rising energy prices and $34.1 billion for energy and transportation programs. The Administration also had requested $21.1 billion for energy programs and $5.4 billion for energy tax credits.

Meanwhile, HUD announced a $11 million grants awards program aimed at encouraging energy conservation activities. Ten to 20 projects will be funded to enable grant recipients to follow energy conservation activities and alternative energy supply technologies that can be applied in housing rehabilitation, neighborhood revitalization or other economic development strategies.

News Summary continued on page 51
Owens-Corning sound dividers. Designed so your design gets noticed. Not ours.

We don’t expect people at work to appreciate the classic lines of our sound divider system. They may not notice the handsome fabric covering. Or how beautifully the dividers fit together. They may never see the electrical raceway hidden in the base or the shelf-hanging capability. And they can’t possibly know that their privacy comes from our special sound-absorbent Fiberglas* core inside each panel.

What they will notice is what really matters: the total landscape you’ve created.


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Don't confuse STYROFOAM brand insulation with porous foam products made with today's throw-away technology, like molded foam cups and picnic coolers. This whole category of disposable foam products is made an entirely different way.

One product made with this same short-life, throw-away technology is "headboard" insulation. Ever had a foam cup leak in your hand? That's exactly how these porous imitations can work in buildings. Think about it next time you specify insulation.

STYROFOAM brand insulation keeps the wet out. Moisture absorption is the most common cause of thermal resistance deterioration in perimeter, sidewall and roof insulation. Since water is a good conductor of heat, soggy insulation robs a building of the
energy it's supposed to be saving. The unique closed cell structure of STYROFOAM repels water and retains R-value.

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Accept no substitutes. Specify STYROFOAM brand insulation and make sure it's actually applied. Then you can be confident that you and your clients have invested in the proven answer for energy savings from frostline to skyline.

For more information, write: The Dow Chemical Company, STYROFOAM Brand Insulation, Dept. E57, Midland, MI 48640.

The Proven Answer

WARNING: STYROFOAM brand insulation is combustible and should be properly installed. A gypsum board interior finish should be used in commercial construction.

For roofing applications, STYROFOAM brand insulation should be provided with an adequate protection. For specific instructions see Dow literature available from your supplier or from Dow.

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Republic designed its locker line the way you would have.

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Inflation, nascent recession, the energy crisis and other calamities are intertwined in the economic picture of the past year. The high cost of capital became a major problem for the construction industry in 1979 after the Federal Reserve Board moved in October to attack inflation by making money scarce and costly. The complex policy, including the tightening of credit, sent interest rates soaring to unprecedented heights, causing a fall-off in sales of existing houses, followed inevitably by a steeper decline in housing starts.

Housing—always the trend setter in construction and considered a barometer of the nation's economic health—took a tumble last November. By January of this year, the decline in housing starts had cut the seasonally adjusted annual rate to 1.4 million units, the lowest number in three years. Last year, according to estimates by the National Association of Home Builders, housing starts were at 2.7 million, and the association forecast a drop this year to 1 million. The resale of existing houses dropped from a September annual rate of 4 million to a March '80 rate of about 2.7 million.

According to Bureau of the Census figures released in April, housing starts were down by 42 percent from December '79; building permits dropped 25 percent. NAHB economists say that these figures "underestimate the severity of the situation," because of prior commitments and presold houses. "But now the cancellation rate has exploded, and units are sitting in the field either partly finished or finished without a buyer."

In February, the government further increased the discount rate on loans to commercial banks from 12 to 13 percent, pushing home mortgages to 15 percent and higher. In March, the discount rate was raised another 3 percentage points, and mortgage rates climbed higher. Jack Carlson, executive vice president and chief economist of the National Association of Realtors, says that the housing industry "is in the midst of a recession that is the worst ever for the market in the post-World War II era." He reports that activity is off in every region of the country, with the West leading by a 39 percent drop in the resale of houses.

People in the housing industry are quick to point out the effect of the slump on the nation's general economy. They point to the influence on other businesses, such as manufacturers of furniture and appliances, also reminding the policy makers that the construction industry is the biggest employer in the nation, even exceeding agriculture. And, according to NAHB, new construction is being postponed, causing builders to lay off workers.

"But now the cancellation of credit has done little to contain inflation. The Department of Labor reported that consumer prices for March rose 1.4 percent for an annual inflation rate of 18 percent. The increase brought the price index to 239.8 as against 100 in 1967; goods that cost $10 in 1967 cost $23.98 in March. The principal contributor to increased inflation over the last year has been increases in energy prices, but the March figure is "particularly worrisome," said an economic analyst, because the high inflation rate has continued, although there has been a decline in the rate of increases in energy prices.

The F. W. Dodge division of McGraw-Hill Information Systems Co. recently issued a report which shows that the Dodge index of construction contract value dropped another 10 percent in March, due to soaring interest rates that curtailed all but a "few surviving building categories." This drop in the index, which is seasonally adjusted with 1972 as the 100 base, followed a similar percentage drop in February. "The March index, at 155, reflected a total of $11.3 billion of newly started construction." The level was 25 percent below the value a year ago.

"The construction market's reaction to anti-inflationary restraint is no longer limited to housing," says George A. Christie, vice president and chief economist for Dodge. "As housing starts plunged toward the one-million unit rate in March, minus signs began spreading to several types of nonresidential building and public works." According to Christie, March contracting for housing fell to $4.6 billion—34 percent less than the year earlier total. The first quarter contract value of $13 billion is 19 percent below last year, he says.

In March 1979, nonbuilding construction contracts were "booming," Christie says, but in March of this year, the total of such contracts was $2.4 billion, down 36 percent from a year ago. This sector is depressed, he says, because of the year-long suspension of nuclear power plant construction and the "more recent restraint on federal funding of highways and other public works."

Nonresidential building fared a little better, with March contracts valued at $4.3 billion—a 3 percent lead over last year's amount. "But the month's support was narrowly based," says Christie. New office projects of more than $1 billion "sustained the momentum of the nonresidential market in March, offsetting declines in stores, warehouses and institutional buildings."

Meanwhile, the Administration is trying to stimulate new housing construction through existing programs, although major new subsidies are evidently ruled out. For example, it is proposed to provide subsidy relief through an expansion of HUD's section 235 homeownership assistance program, which creates 4 percent mortgages, using money impounded under the Nixon Administration. This would generate, says HUD, about 18,000 mortgage commitments this year in its present form.

Carlson of the National Association of Realtors says that HUD's proposal announced last month shows that the Administration recognizes housing's "plight," but that this effort "does nothing to address the underlying causes of the problems facing housing." He estimates that the revision in section 235 might contribute about 1 percent to the two million units annual need for housing construction. What's suppressing the industry, he says, is "the state of the economy, high inflation, poor fiscal and monetary policy mix at the federal level and oppressive taxes and interest rates."

Environment: Celebrating Ten Years of Cleanup With Much Yet Undone

A decade ago, the National Environment Policy Act was signed into law, mandating environmental impact assessments of proposed federal actions, and the first "Earth Day" was celebrated by ecologists, drawing nationwide attention to the need to protect the environment. The environment was front-page news. When Earth Day was celebrated this April, there were the teach-ins, the seminars, the exhibits and the sunrise ceremonies, but the zeal of a decade ago had diminished.

"Ten years ago there were only a handful of adults in this country who knew what the word 'ecology' meant," Douglas continued on page 246

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AIA Component Awards

Many of AIA's local, state and regional component organizations conduct an annual honor awards program. A sampling of recent award winners, chosen for a range of building types and locations, is seen here and on following pages.

Nora Richter

Alaska Chapter. St. Nicholas Russian Orthodox Church restoration, Juneau; Douglas Ackley, AIA, Juneau (right). The entire wood frame building—built in 1893, with belfry added in 1915—has been refinished: The wood foundation was replaced with reinforced concrete, the beams were reinforced, the Celotex wall covering was replaced with plaster board, updated heating and electrical systems were installed. The refinished exterior adheres to the original design concept and materials as closely as possible. Wayne Jensen, photographer.

Los Angeles Chapter. Mid-Atlantic Toyota office interiors, Glen Burnie, Md.; Frank O. Gehry & Associates, Santa Monica (left). At the building's entrance the predominant focal point is a brightly lit glass-enclosed stairway leading to the second floor administrative offices. Upstairs, regular and irregular "cutouts" provide for open yet private offices. The pastel walls of pink, blue, yellow and green are highlighted by natural light admitted by skylights. The structural elements of the ceiling are exposed as "industrial references," while suspended chain-link fence parallelograms hang from the ceiling. A jury member commented, "A truly exciting and highly appropriate alternative to the typical office space. You feel as though you are inside a large cubist painting within a loft. There is a great clarity of the plan within the complexity of forms and a feeling of total spatial comprehension throughout."
Seattle Chapter. Williams residence, Seattle; Gerald A. Williams, FAIA, Seattle (above). The house for the architect's family of four is a wood frame structure with carefully proportioned windows to take advantage of views and natural light. A fluid shaped cedar lath structure covers the south and west facades to provide shade and to support vines. Inside, sections of both the living room and kitchen extend to the second level. "A surprising variety of well-proportioned spaces were handsomely integrated with the hillside setting. A sensitive exterior solution appropriate for the Northwest," the jury commented. Christian Staub, photographer.

Pike and Virginia Building, Seattle; Olson/Walker & Partners, Seattle (right). Because of site restrictions and the low scale of buildings on Pike Street, the building is divided into two sections: The front has three levels and houses a garden shop, wine store and delicatessen; the rear portion has 14 apartments on six levels. Each apartment has its own entrance and balcony space. The building is of natural colored poured-in-place concrete frame and natural masonry block infill. The jury commented, "A clearly stated and consistently executed single architectural idea well suited to its mixed residential and commercial uses." Gregory Minaker, photographer.
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Western Mountain Region. Quad One Planned Unit Development, House 2 and 4, Salt Lake City, Utah; Hallet, Herman­son & Associates, Salt Lake City (left). Both houses use a 12x12-foot planning module with diagonals used to accommodate larger spaces. Passive energy principles are incorporated in both houses: small glass areas on the north side; larger glass areas facing south; shading devices such as awnings and framed canopies. Materials include natural cedar and redwood exteriors.

St. Mary's Convent, Tucson, Ariz.; Anderson DeBartolo Pan Architects Inc., Tucson (below). The convent was designed to accommodate 22 sisters and provide for future expansion. The first phase of the project consists of one small and one large house, each containing living, dining and activity rooms, kitchen, laundry and storage facilities and hobby and craft space. Energy measures are incorporated.
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Nevada Society of Architects. Stern residence, Reno; Theodore E. Selden, AIA, & Maurice J. Nespor, AIA, Reno (above). The three-story, 3,019-square-foot house employs passive solar design concepts. The southwest roof extends to the ground, deflecting cold winter winds over the structure. Cool summer evening breezes are collected by adjustable awning scoops and directed into and through the interior spaces. The open design of the interior spaces aids air circulation. The jury commented that the form is derived not “from stylistic concerns but rather from the owners’ needs and local environmental conditions. . . . The interiors are rich and exciting and, although complex, there is much spatial fun.”

Montana Chapter. Rex Hotel, Billings; A & E Partnership, Billings (right). The exterior facade of the 1916 building (designed by Curtis Oehme) was restored to its original state; interior spaces were redesigned. The main floor consists of a restaurant with original metal pan ceiling and newly designed bar, furnishings and plant decor. The second floor contains leased office space, and the third provides offices of the owners, A & E Partnership. The project was the initial renovation effort in a previously decaying area and resulted in the establishment of the Townsite Historic District.
Colorado Society of Architects. Mountain Bell Denver Service Center; RNL, Inc., Denver (right). The buildings at the base of the project vary from one to three stories and house employee and public affairs functions. These structures are located to protect the plaza and main entrance from cold winter winds. The 23-story tower has solar bronze glass, bronze toned granite and bronze insulating reflective glass. Julius Shulman, photographer.

Colorado School of Mines Student Dormitory, Golden; John D. Anderson Associates, Denver (below). Two housing towers are joined at the base by a single level commons area. Each tower contains suites with a living room and sleeping space for eight or nine students. The suites are grouped around a central enclosed atrium. A 3,000-square-foot flat plate solar collector bank is supported on a triangular truss that spans the two towers at roof level. Solar energy is used for domestic hot water and space heating. Andrew Kramer, AIA, photographer.
South Dakota Society. Pasley residence, Sioux Falls; Architecture, Inc., Sioux Falls (above). The owner requested a horizontal separation of spaces, and the architect turned the house around a hill to create a variety of views and privacy. The master bedroom is at one end, convenient to the living room, dining room and kitchen. Connected on the other side is a den, two bedrooms, game room and family room. A solar collector is located on the garage roof oriented to the south. Materials include native stone and cedar. Joel Strasser, photographer.

Southeast Town Houses, Sioux Falls; Architecture Inc., Sioux Falls (below). The six-unit, 7,688-square-foot town house is oriented toward the southwest for a view of a city park and the Sioux River. Each unit is set back from the previous one to allow for a greater view and privacy, and has a garage, living room, dining room and deck on the second floor and a bedroom on the third. Exterior walls are of cedar siding.
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PPG: a Concern for the Future

Architect: Henningson, Durham & Richardson, Inc., Omaha, Nebraska.
Owner: Midland National Life Insurance Company, Sioux Falls, South Dakota.
North Dakota Chapter. Gate City Savings and Loan, Wahpeton; Hunter-Grobe, Fargo (above). The owner's primary design objective was an "attractive" structure that would gain attention and have visibility despite small space program requirements. The architects placed solar panels and portions of the mechanical system on the second level adjacent to the street. The year-round heating, cooling solar system provides approximately 60 percent of the energy needs. The triangular plan permits easy customer access to the drive-in teller stations.

Texas Society of Architects. Peck beach house, Galveston; Ray B. Bailey Architects, Inc., Houston (right). The owners requested a weekend house for their family of five that would have a feeling of openness while maintaining private areas and would maximize views of the Gulf of Mexico. The plan focuses on a two-story-high living area that is overlooked by the third floor sleeping loft. Decks adjoin each living level and the roof. The relatively closed north wall limits views toward adjacent houses. Richard Payne, AIA, photographer.

(More AIA component awards begin on page 260.)
An ‘Education’ in Drawings As Well as in Architecture


When I was in school in the early '60s, I acquired a book entitled The Architect's Eye by Conrads and Sperlich. The book had a lot of futurist, expressionist and visionary work in it, most of it generally published were Mies van der Rohe's occasional black and white reproduction. The book had a lot of futurist, expressionist and visionary work in it, most of it represented by drawings. For many years, this was the most architectural drawing in one place that I saw. Mainstream architecture in the '60s was defined narrowly, and the most important drawings generally published were Mies van der Rohe's exquisitely drawn corner details and an occasional black and white reproduction of a Frank Lloyd Wright color pencil rendering. During this time, Bruce Goff was doing drawings of strange buildings, and Paolo Soleri was rendering whole cities out in the desert, but neither was taken seriously. On the whole, architectural drawing and the visionary architecture made possible through drawings were dead issues.

All that has changed, and architectural drawings are everywhere: on students' boards, in galleries, in museums, in magazines, in books. The Architect's Eye is a sumptuous presentation of 80 drawings, 40 in color, in oversized format on coated paper. The selection covers American architecture from 1799 to 1978, and there is an introduction by Robert A. M. Stern, AIA, plus commentaries by Deborah Nevins. The book is an outgrowth of the show, "200 Years of American Architectural Drawing," organized in 1976 by David Gebhard and Deborah Nevins for the Architectural League of New York and the American Federation of Arts, published as a book of the same title by Whitney Library of Design. The Architect's Eye differs from the previous book in that it presents fewer drawings, better reproduced, and with a lot of color. It appears less cluttered and is intended for a general audience as well as an architectural one.

This book is a treat. Working slowly through it, one moves through the periods and styles of American architecture: Palladian, Greek revivals, Gothic revivals, romantic castles, gingerbread houses, personal heroics, sensitive brickwork, towering skyscrapers, expressionist fantasies. It is an education in architecture as well as drawing, a reminder of dozens of styles, periods and architects we might have forgotten.

Why the current interest in architectural drawings? It seems to me that the interest is synchronous with an increased interest in architecture itself. Although there are doubtless exceptions, I suspect that there is a very strong correlation between good drawing and good architecture. For the architect, drawing is thinking, and what the pencil or pen cannot render is not there as thought and will not be there in the building. The weakness of much modern architecture is probably connected with the inability of many contemporary architects to draw well. In much of the modern orthodoxy, good drawing was regarded with suspicion. It smacked of the Beaux-Arts. Anyway, the building should be a consequence of the serial piling up of prefabricated components, it was thought, so esthetic decisions had little place in design. Thus were lost the subtleties of the ground meeting the sky, the play of light, response to seasons, modulation of surfaces.

The drawings that have emerged in the late 1970s are strong on conceptual issues, and, as the genre evolves, I hope they will also become strong in detail: in sensitivity to materials, textures, finishes, light and the character of the site. If drawings combine these strengths, buildings eventually will also.

In commenting on her book on women painters, The Obstacle Race, Germaine Greer said that she hoped it would be the last book of its kind. Having established the importance of women painters, Greer feels that the next task is to deal with specific women of importance. The same, I hope, will be true for architectural drawing. The Architect's Eye is wonderful as a survey, but beyond Wright and Louis Kahn, we have little access to the drawings of dozens of architects from which we could derive much pleasure and benefit. Let us hope that the efforts of Gebhard, Nevins and Stern will lead to extensive presentations of the work of individual architects.

White Towers. Paul Hirshorn and Steven Izenour. (MIT Press, $17.50.)

Gleaming white with large areas of glass, a small tower and open all night, the White Tower hamburger stand has become an ubiquitous presence on the American landscape. Squat and boxy, sleek and streamlined or moderne with zig-zag trim, the White Tower has changed in details over the years while remaining constant in Image. This book on the architectural history of a fast food enterprise is both important and at the same time disappointing. Or, like the

continued on page 82
Here at the Guildford Town Centre shopping mall in Vancouver, B.C., a man-made landscape rises to the sky, while natural light floods downward into an equally spectacular interior. It's a remarkable design; almost timeless.

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food served, the anticipation is greater than the reward.

Founded in Milwaukee in 1926 by a father and son team, J. E. and T. E. Sax, the White Tower firm grew until its height in the mid-1950s more than 230 shops were in operation. Clean and hygienic in appearance, the shops provided a known quality and quantity of food: "Hamburger 5¢ 'Buy a Bagful! Rolls 5¢ Donuts 5¢ Pie 10¢ Coffee 5¢ Milk 5¢ Pop 5¢ Buttermilk 5¢."

The firm's initial success came in densely populated urban areas, such as on public transportation routes under the elevated or next to subway stops, or squeezed into narrow ground floors of 10 feet in width. They were the quick bite service to attract a new breed of customers. In the 1930s and the growing infatuation with the automobile, White Tower moved to the roadways and highways, adding parking areas and in some cases carhop service to attract a new breed of customers.

White Tower succeeded until the early 1960s when the firm began to lose ground to a new type of fast food chain not dependent upon public transportation and not appealing entirely to workers but to all elements of society including mom and the kids. Careful marketing and media images of clowns and the appeal of a "ATTACK" supplanted the White Tower that never developed an advertising campaign. Today, White Tower as a subsidiary of the Tombrock Corporation operates about 80 shops.

The success of the White Tower for a time raises the question of how much this success and subsequent decline had to do with the architectural image. The initial source for the motif of a White Tower came from the Wichita, Kan., hamburger chain, White Castle, that had been founded in 1921 and had spread throughout the Midwest. The first White Towers were designed by construction company draftsmen and were constructed entirely of white glazed brick. A tower was asymmetrically placed over the entrance and, with modifications from the early crenelations to 1930s modern design, and 1950s and '60s cubes, the tower identified the enterprise.

Different materials were experimented with, and in the 1930s porcelain enamel panels and Vitrolite panels came into use. Different designers were employed over the years, both company architects and, in some cases, local architects. Some of the most interesting streamlined roadside designs of the 1930s came from local architects or from competitors who tried to cash in on the White Tower image, erected a building and then discovered the mechanics of running the shop were too much and sold out. Since 1935, the company architect has been Charles J. Johnson, who followed not only esthetics, but, as he claimed: "We're in business to make a buck." The gleaming, slick and White Tower image was maintained until the competition became rugged. Then color was introduced, the tower became less obvious and, in extreme cases, the suburban mansard served as a replacement.

Today, the image has been dissipated. The White Tower image has become passé, too identified with nickel hamburgers. But one wonders. An unidentified quotation (perhaps by architect Charles Johnson)—the very last in the book—claims: "So if you were going to rank the order of importance, I guess having the right location—you've got to have that. Second, the internal layout. Third is the service and, fourth, maybe just the visual impact of the restaurant from the outside." If one accepts this observation, architectural image has minimal importance.

After many years of ignoring the commercial vernacular environment, it is suddenly "in." Nostalgia for what was formerly despised, from roadside diners to Tuscan-columned Texaco stations, has hit, and the books are rolling off the presses. This one is an example. A small amount of text, beautiful photographs—most of which are period pieces taken by commercial photographers and are from the White Tower archives—make up the book. The photographs are the reason for buying the book. The text only superficially recounts the history of the firm and the development of the design. It is largely uncritical and filled with a sentimental longing for days past.

The authors became infatuated with the White Tower image while working for the Venturi & Rauch firm in Philadelphia in 1970. Some of the iconoclastic spirit of *Learning from Las Vegas* (Izenour was a coauthor with Robert Venturi and Denise Scott Brown) pervades *White Towers*. Personal appreciation is but one level of understanding an architectural image. A critical analysis of the history of the image must be put into a context of national history and corporate development before any true understanding can be reached. Was the architectural imagery of any importance? And if it did help to sell hamburgers, then why the decline of the firm in recent years? There is no single or simple answer, but it might help to explain the design evolution. To many, of course, White Towers are not worthy of consideration; they are not architecture. But they are there, and in the direct appeal of the classic White Tower there is an undeniable presence. Richard Guy Wilson, Chairman, Division of Architectural History, University of Virginia, Charlottesville

*Books continued on page 85*
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Why an architectural history of America’s gas stations? This book, with other recent studies of diners, motels and White Tower restaurants, reflects a recent interest in the artifacts of America’s roadways that is rooted in a re-examination of American commercial culture. The intellectual parents of the movement are Robert Venturi, Denise Scott Brown and Steven Izenour. Their writings express a disillusionment with the work of architectural modernists, which they have sometimes tied to the large corporate/governmental organizations that commissioned those buildings. Vieyra's book is a less carefully thought-out product of the same vision. In the wake of the "failure" of both modern architecture and of the modern corporate state to fulfill their humanist promises, this is an attempt to find capitalism with a human face in the roadside architecture of the recent past.

The enterprise raises some important questions about semiotic qualities of buildings and their role in roadside merchandising and about the influence of public action on commercial design and the landscape of the strip. In short, the place of the strip in modern American life is at issue here. Despite acknowledgement of the work of the Philadelphia architects, Vieyra recognizes few of these questions and confronts none satisfactorily. Declaring "the premise that 'symbols dominate spaces' " to be the "solid theoretical foundation" of this book, the author has chosen to bypass a chronological treatment in favor of a structure that groups gas stations into four categories: the fantastic, the respectable, the domestic and "the 'functional.' " (No indication is given why the latter requires quotation marks while none of the others does.)

This scheme is fine, but the categories are based upon a visual appraisal of the stations' form, rather than a careful analysis of their symbolic effect. There is no evidence that any of the many art historical, philosophical, anthropological or linguistic theories of symbols seriously affected Vieyra's thinking. As is common in many treatments of commercial vernacular architecture, the author asserts that these corporate buildings reflect all of us, but doesn't say how or why. Since the only systematic documentary research seems to have been concentrated in the National Petroleum News, one must assume that the statement is based on the market myth: the belief that producers respond to consumer demand. Because American enterprise is so diversified and so flexible, there is something for everyone. Therefore, what you get is what you want.

If Fill 'Er Up hadn't been described by its author as an architectural history with a theoretical structure, it could be written off as a "nostalgic celebration" of the "carefree joy of the open road that once continued on page 86
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seemed the American birthright," as the publisher's blurb described it. Unfortunately, that carefree joy is one of the things responsible for our present economic and energy problems, and nostalgic celebration is perhaps an inappropriate attitude. If, then, we examine this book as the author intended, we find that not only is the theory missing, so is the history. The research is haphazard, and the entire book gives evidence of being thrown together (though handsomely produced). Photographs are introduced without textual explanation, and written descriptions of important buildings are frequently not accompanied by photos. The illustrations are not keyed to the text. The end notes are identified in the appendix by the phrases they document, and their existence is not indicated in the text. It appears that the decision to produce the book was made on the basis of having accumulated 100 pages of material (including a lot of photographs), without regard to any research strategy.

Fill 'Er Up should be, albeit unintentionally, effective public relations for an industry currently suffering from a very poor public image. Like Jimmy Stewart's television advertisements for a tire company, Vieyra offers us an image of the giant corporation as downhome folks who work hard for us. Dell Upton, University of Virginia


These two books approach the subject of homes in America from the different academic backgrounds of the two authors. Jan Cohn is chairman of the department of English at George Mason University. David P. Handlin has practiced architecture in Italy and England. He is now associate professor of architecture at the Harvard graduate school of design.

Cohn's book starts with a discussion of the first settlements in this country. Shelter was the immediate need, so crude structures went up. From these the communities grew, but any attempt at elegance was frowned upon as a waste of time and labor and a deterrent to community progress. The first settlers needed each other for protection in the wilderness, and communal living was imperative.

Gradually, the more industrious settlers were rewarded with their own land, and the power of private property induced greater productivity. The towns grew and wealthy merchants inhabited them, built large houses and gave rise to a landless.
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but rich city dweller. Cohn pursues this theme by citing Thoreau and *Walden*, Hawthorne and *The House of Seven Gables* for the effect a house can have on its occupants. With the rise of wealth came the mansions and the contrast of slums. The dream of equality for all gradually became lost in reality, but the American home of the vast middle class survived and strengthened family values and responsibilities.

*The Palace or the Poorhouse* continues with discussions of early architects and social solutions to problems of city tenements and the enormous influx of immigrants to this country. There is further reference to literature as a study of houses. Henry James' work is discussed, with reference to the rich mansions or evil houses as background for his stories. Other novels and authors are introduced, and we come finally to F. Scott Fitzgerald, William Faulkner and John P. Marquand. Cohn has written a short and interesting history of the American house and gives us some insights into the effect our homes have had on our lives.

Handlin, in *The American Home*, has covered a shorter span of time, from 1815 to 1915, but with much greater depth. His long book goes into an infinite amount of detail, covering myriad facts, subjects, people and social problems. He discusses the American home from the viewpoint of the architect, the family, the setting, the construction, housekeeping, financing, and, eventually, we find ourselves faced with early plumbing problems.

Handlin is a scholar and his research is enormous. His approach is architecturally superb. We learn just about everything there is to know about the American home. Like *The Palace or the Poorhouse*, this book gives us literary examples of the effect of a house on its occupants. There is a fine history of the architects of the period and their attempts to solve housing problems. There is, also, a long discussion of labor-saving devices for the home, with some amusing references as to how the housewife would spend her time if freed from the necessity of cleaning. This book will interest architects with its history of a subject that is as old as America, but, probably, never before studied in such specificity. *Elizabeth Claass, Washington, D.C.*

Sixteenth Street Architecture, Volume 1.
Sue A. Kohler and Jeffrey R. Carson.
(U.S. Government Printing Office, no price given.)

You don't have to have ever visited the nation's capital to find this book on Washington's 16th Street to be appealing. All that's required to find it of compelling interest is a curiosity about either either American

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can architecture or history. It was developed and issued under the auspices of the Commission of Fine Arts, and one assumes from the volume numbering that other publications will follow.

Sixteenth Street stretches for seven miles—from the north point of the District of Columbia line to the White House. It brings to mind residents Daniel Webster, Henry Adams, John Hay, Hamilton Fish, Evalyn Walsh McLean, Gromyko and Dobrynin, and designers James Renwick, Henry Hobson Richardson, John Russell Pope, George Oakley Totten Jr., Warren & Wetmore and Coolidge, Shepley, Bullfinch & Abbott, among others.

After World War I, Washington’s leisurely atmosphere changed, says Jeffrey R. Carson in the introduction. Big government caused a surge of building—and noble architecture was torn down for “progress.” The changes, he says, were “devastating, historically and architecturally.” Among the structures destroyed were the residences of Henry Adams, John Hay and William W. Corcoran.

As well as can be done, this book gives the reader an idea of the grandeur that once was, at the same time mirroring Washington’s history. Described in detail is some of the destroyed architecture (and much that still stands), and the many old photographs give meaning to the text. There are histories of the buildings, as well as biographies of the people associated with them, including the architects.

All is not gone, for along the street are continued on page 97
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the embassies of the USSR (planned originally by Mrs. George M. Pullman of Chicago for her daughter and designed by Nathan C. Wyeth), of Italy (designed with Renaissance and baroque architectural elements by Warren & Wetmore), of Mexico (once the home of Franklin MacVeagh, secretary of the Treasury in Taft's cabinet and also designed by Wyeth) and of Spain (built by Mrs. John B. Henderson and designed by her "favorite architect," George Oakley Totten Jr.) There are other standing structures, too, such as the Church of the Holy City (designed by H. Langford Warren, later dean of Harvard's school of architecture) and All Souls Church (its second building, Victorian Gothic in design, whose architect was R. G. Russell; the first church, used for 50 years, was the design of Charles Bulfinch).

The only major thing wrong with the book is that there is no index, but it is hoped that any succeeding volumes will correct the flaw.


Nathan Weinberg has provided a good introductory examination of the current practice of historic preservation in the U.S. This illustrated volume defines the preservation movement in general terms: as activities related to saving historically significant buildings and districts from destruction. The author thus embraces not only restoration in the strict sense of the word, but adaptive use of commercial and residential buildings, the creation of historic house museums and districts and the legal and financial mechanisms by which preservation is accomplished. He is also concerned with matters that were at one time tangential to preservation and restoration. Real estate development and speculation, displacement of the indigenous population by preservation activities, transportation planning and its effects on historic districts and innovative preservation programs are all examined.

As a sociologist, Weinberg is in a position unique among preservationists. He examines the preservation process as social phenomena. The process cannot be applied to all situations in the same way; it must change in practice and meaning as it is applied in various contexts. Weinberg views the development of historic house museums and districts in the 1920s and '30s, which was the beginning of serious preservation efforts in this country, as largely a product of the affluent.

A subtle but major shift in emphasis occurred in the 1960s and '70s when preservation expanded beyond saving

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nationally important buildings and districts, such as Mount Vernon and Savannah's historic core. Areas such as Liverpool Street, a black ghetto of late 19th century vernacular buildings in Pittsburgh, caught the eye of preservationists. The spread of the movement into less important areas created an additional set of concerns and issues. Preservationists were faced with problems of obtaining mortgage funds in redlined areas, of dealing with absentee landlords and the displacement of low-income families through the preservation process as the areas were rehabilitated by young, upwardly mobile professionals. Throughout the book, Weinberg emphasizes the issue of population displacement either explicitly or implicitly. It is one of the current problems of the preservation movement that has not been squarely faced—one that tarnishes many otherwise noteworthy preservation efforts.

Weinberg briefly examines the preservation problems and processes in four towns and small cities. One of the most interesting is his study of Annapolis, Md. After tracing the efforts of Historic Annapolis, Inc., from its inception in 1952, he focuses on the problems that have come with success—increased tourism and the resulting demand for tourist facilities and attractions, the inflation of property value in the historic core that has altered the use and character of the area and the concurrent suburban growth that has changed the setting of the town.

Curiously, in his conclusion Weinberg does not concentrate on his observation concerning the problems created by preservation—probably his best contribution to the field. He does, however, neatly summarize the current state of the preservation movement. The book serves as a reminder of the potential that the movement has in helping shape our future environment.

Richard Wagner, Assistant Professor, College of Architecture and Design, Kansas State University.

Chicago Ceramics & Glass: An Illustrated History from 1871 to 1933. Sharon S. Darling. (Chicago Historical Society, $25.)

Published in connection with an exhibition of the same title, this book focuses on the period between Chicago's great fire and the Century of Progress Exposition, telling a marvelous story of innovations in the decorative arts and architecture. The author says that some of the people responsible for this creativity, such as Frank Lloyd Wright and Louis Sullivan, have become legends, but most of them are either known only to a few specialists or have been forgotten in the passage of time. This copiously illustrated book pays homage to them all.

The first section of the book is devoted to the decorative arts: china painting, art pottery and cut glass. The development of all three, says Darling, paralleled movements in the major urban centers of the U.S., England and the Continent. The styles and techniques traveled to Chicago "with remarkable rapidity," and streams of immigrants brought to Chicago a high degree of artistic skill. The three industries reached their peak by 1929, then went into a decline. "But, in the meantime," says Darling, "numerous designers and artisans had enriched Chicago's private homes and public buildings with the products of their skillful hands and lofty aspirations."

The second half of the book, probably of more interest to architects, concerns those arts closely related to architectural trends—stained glass and terra cotta. In the building boom after the 1871 fire, there was work for the skilled craftsmen who came to the city. Stained glass was used by many architects. Indeed, Darling says that by the time of the Chicago fair of 1893, "colored glass was being used so extensively and in such startling combinations that some concerned glassworkers expressed the fear that the widespread 'abuse of color' would degrade the entire art glass industry."

But the fear was unfounded "when the exquisite stained glass windows and glass mosaics displayed at the World's Columbian Exposition by American glass firms established the supremacy of American
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A Review of the Year’s Books About Architecture

By Mary E. Osman

Which comes first, the book or the trend? Do books really cause architectural change, or do they merely report and/or analyze changes that have already occurred as the result of creative, social, political, technological and other influences?

If one is to believe Barbara Tuchman, author of A Distant Mirror: The Calamitous 14th Century and other commendable works, books are “engines of change.” She told a conclave of authors and librarians: “Books are carriers of civilization. Without books, history is silent, literature dumb, science crippled, thought and speculation at a standstill. . . . They are engines of change, windows on the world and (as a poet said) ‘light-houses erected in the sea of time.’”

With the intriguing phrase, “engines of change,” in mind, it is tempting to speculate, but perhaps foolhardy, on whether any so-called engines of change have been set in motion by recent architectural books. Foolhardy, because change does not occur overnight, of course, and it may take more than a decade of time to determine if a book published in the just-passed year, give or take a few months, will have a lasting impact upon architecture. As Sigfried Giedion observed, it will take until the end of the 20th century to finally evaluate 19th century architecture.

Nonetheless, it is still possible to detect certain trends (or “directions of movement,” as the dictionary defines the term) in a review of the hundreds of architectural books published in a year’s time.

As in a great deal of recently published literature, there appears to be a searching for “roots” in architecture as well as in other subjects of cultural impact. This seeking, combined with other social factors, is seen in at least two revealed trends in recent architectural books. The search for roots is there, to a degree, in the proliferation of books on historic preservation activity, and it appears to be there also in another spate of books engendered by efforts to re-establish a firm 20th century architectural esthetic. A third trend is revealed in the dozens upon dozens of books published on the subject of energy conservation.

The saving and reuse of older buildings shows a direction of movement, due in part to a yearning for our architectural past, but also to such social pressures as inflation, the energy crisis, rising interest rates, decline in population growth and rising land and construction costs. Going from the simplicities of grassroots appeal a decade ago to the complexities of a full-blown national movement, aided andabetted by even such an ogre as the Internal Revenue Service, preservation activity has already required architects to diversify their traditional range of services. A recent AIA survey, for example, revealed a 100 percent increase in the past decade in the number of architectural firms undertaking restoration, rehabilitation and adaptive use projects.

An outpouring of books has matched all this activity. Books of recent months include such publications as Architecture in Context: Fitting New Buildings with Old (Brent C. Brolin), Return to the City: How to Restore Old Buildings and Ourselves in America’s Historic Urban Neighborhoods (Richard E. Reed), How to Recycle Buildings (Laurence E. Reiner), Preservation in American Towns and Cities (Nathan Weinberg), Moving Historic Buildings (John O. Curtis) and Re-creating the Historic House Interior (William Seale).

There are also the related books that extol past architectural masterpieces, or decry their loss, and books that examine the eclecticism of the past. Among them: Capital Losses: A Cultural History of Washington’s Destroyed Buildings (James M. Goode), Splendid Survivors: San Francisco’s Downtown Architectural Heritage (edited by Michael R. Corbett) and The Egyptian Revival: Its Sources, Monuments and Meaning (Richard G. Carroll). Something for nearly everyone.

More theoretical in character is a second discernible trend. Recent architectural literature shows that the debate goes on about whether the principles of so-called modern architecture have been overturned in a return to historical forms and symbolism. Ironically, this searching of the past appears to be done in order to find an architectural idiom for our own time, and it appears to be done principally by scholars rather than architectural practitioners.

In the introduction to the recently published Transformations in Modern Architecture (Arthur Drexler), a book based on a controversial exhibit by the same title held at the Museum of Modern Art in New York City last year, the statement is made that “critical discourse has shifted away” from architectural practitioners. The “most instructive commentary,” says Drexler, comes from academics, who may or may not be practicing architects. Drexler goes further to say that our judgment of contemporary architecture is hampered by the “overwhelming volume of theory” and also by the “sheer quantity” of buildings published in magazines and books.

One academic commentator, Omer Akin, author of an article on postmodernism in the British magazine Architectural Design (vol. 49, no. 8-9, 1979), points to the “confusion” and “considerable array” in today’s architecture. He believes all this “has been and will continue to be disastrous for young minds in architecture.” He is more optimistic about the more mature architect, who will be “better able to sort out the relevant from the irrelevant.”

There are many books to help do the sorting. New revised editions of older books that had a considerable influence on current architecture are appearing, including Charles Jencks’ The Language of Post-Modern Architecture, Robert Venturi’s Contradictions and Complexities in Modern Architecture and Robert A.M. Stern’s New Directions in American Architecture.


The third discernible trend in recent books on energy reveals in no uncertain terms the crucial matter of rapidly depleting nonrenewable energy sources—and the search for alternatives. In addition to reports by special panels of experts, government documents and monographs by solar energy advocates, there are many practical books for the architectural practitioner.

They range in scope from AIA’s own Energy Planning for Buildings (Michael M. Sizemore, AIA, Henry O. Clark, AIA, and William S. Ostrander) to New Inventions in Low Cost Solar Heating (William S. Shurcliff). Among the many other books are Energy Conservation: Design Resources Handbook (Royal Architectural Institute of Canada), Solar Energy in Buildings (Charles Chauliac), Pierre Bartsib and Jean-Pierre
Jeremy A. Jones, AIA). There's an energy Saarinen, and on and on. Dante, a fresco by Luca Signorelli in the Duomo at Orvieto, Italy.

In addition, there have been recent books to zero in on special energy problems, such as Protecting Solar Access for Residential Development (Martin Jaffe and Duncan Erley), The Energy-Efficient Church (edited by Douglas R. Hoffman), Energy-Efficient Community Planning (James Ridgeway) and Homes in the Earth (Larry S. Chalmers, AIA, and Jeremy A. Jones, AIA). There's an energy book for just about everyone.

But in the recent past, surely no single architect had as many books written about him as did Frank Lloyd Wright. Some of the books are Frank Lloyd Wright: His Life and His Architecture (Robert C. Twombly), Building with Frank Lloyd Wright: An Illustrated Memoir (Herbert and Katherine Jacobs), The Decorative Designs of Frank Lloyd Wright (David A. Hanks), Frank Lloyd Wright to 1910: The First Golden Age (Grant Carpenter Manson), The Plan for Restoration and Adaptive Use of the Frank Lloyd Wright Home and Studio (Frank Lloyd Wright Home and Studio Foundation), Frank Lloyd Wright: A Study in Architectural Content (Norris Kelly Smith) and Apprentice to Genius: Years with Frank Lloyd Wright (Edgar Tafel, AIA).

Beautiful books have been published as well on architectural drawings, an art form that books of recent vintage have reinforced. Among the singularly handsome books (aside from the how-to-learn-to-draw books that often are also visually pleasing) are The Drawings of Louis Sullivan: A Catalogue of the Frank Lloyd Wright Collection at Avery Architectural Library (Paul E. Sprague), Visionary Drawings of Architecture and Planning, 20th Century Through the 1960s (George R. Collins), Viennese Architecture, 1860-1930, in Drawings (edited by Karl and Eva Mang), The Architect's Eye: American Architectural Drawings from 1799-1978 (Deborah Nevins and Robert A.M. Stern, AIA) and Architect: The Lodge Books and Sketchbooks of Medieval Architects (vol. 1, François Boucher).

Architecture is a visual art, and there have been other beautiful books published recently. Surely a candidate for top honors for 1979 is the three-volume work, The Plan of St. Gall: A Study of the Architecture and Economy of, and Life in a Paradigmatic Carolingian Monastery (Walter Horn and Ernest Born). Lavishly illustrated with about 1,000 plans and drawings, the set costs a hefty $325 ($750 for the deluxe edition) and won't find its way into many libraries of architects, but it is exemplary in its fine graphic design and will surely go down in the annals of contemporary bookmaking.

In the past year, there have also been all the how-to-do-it books for the architectural practitioner—how to manage a construction project, how to establish a firm, how to carry out effective public relations, how to design an office brochure, how to avoid legal pitfalls. But it is doubtful if such books indicate a trend, nor does the usual plethora of architectural guidebooks and books on what librarians call "architecture by place." Books in these categories are published constantly in any given year and cannot be examined as "engines of change."

In passing, however, the inquisitive may wonder about "nontrends." Except for the "tear sheet" books, compiled from pages of already published magazines, and the many books on "how to design and build your own house" (many, surprising­ly, written by architects), where are the basic and comprehensive books on the design of specific building types—research laboratories, transportation terminals and other such structures that exemplify the scientific and technological aspirations of a dynamic American society? Why no book in the English language since 1929 on banking facilities, although money seems to be the generating force of our materialistic age? Another frontier for engines of change might be an in-depth endeavor to find out how the government of a free people should be expressed in the architecture of our time.

It is impossible to tell whether any book published in the past year is an engine of change. If no book of the recent past can claim to have set the course of future architecture, it may not be surprising. Perhaps architectural change is manifested first in an actual building. The building itself may be the engine of change. Is it not the architect who sets change in motion rather than those who comment on current "aberrations" and predict future architectural vision?

Returning to Barbara Tuchman's accolade about books, it seems that it is too early to tell whether any book of the past year is an engine of change. But certainly many of them are "windows on the world" as well as "lighthouses erected in a sea of time." Perhaps the engines of change are just in neutral.
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* Pedestrians Only: Planning, Design and Management of Traffic-Free Zones (3-M278)
By Roberto Brambilla and Gianluigi Longo. This appraisal of traffic-free living in 20 European and North American cities provides, for the first time, a comprehensive study of the complex process of eliminating all the noise, pollution, and turmoil from urban spaces. By summarizing and analyzing what has been achieved, the book offers a resource to guide future efforts to make cities more habitable. A compendium of over 70 American pedestrian malls concludes the thoroughly researched text. Hardcover, 288 pages, 250 illustrations (1977). $34.95 Non-member, $22.45 AIA member.

ENERGY

* Solar Dwelling Design Concepts (3-M311)
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GOVERNMENT

Working in Government: A Profile Study of the Architect as a Public Employee (2-M712)
Prepared by AIA's Architects in Government Committee. The information presented in this report is intended to give the general public a better understanding of the various functions performed by architects in government; to give educators a clearer view of educational needs and opportunities; and government administrators an opportunity to make comparative assessments of architects in various agencies and at various levels of government. Developed from a survey of over 2,000 architects in government conducted in 1976, this report provides a comprehensive profile of those persons practicing as architects in the public sector. Softcover, 40 pages (1978). $5.00 Non-member, $4.00 AIA member.

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Books from page 98

The Social Life of Small Urban Spaces.
William H. Whyte. (Conservation Foundation, $9.50 paperbound.)

The basic question addressed in the book is: What makes an urban open space successful? Whyte believes that an open space that attracts people who are enjoying themselves constitutes success. Many of the findings seem quite apparent to anyone who has taken the time to think seriously about the behavior of people in public open spaces. The book, however, neatly pulls together and compresses many years of observations by the author, and thereby provides insights most of us would never evolve on our own.


As William Reilly, president of the Conservation Foundation, points out in the foreword, many of the findings and conclusions seem so obvious quite often escape us when we set out to design small urban spaces. For example, spaces designed to keep out undesirables, pushers, bums and agitators tend to keep out other people as well. The most successful spaces seem to attract people in general and to be relatively free of problems. Sun, trees, water, food and, most of all, places to sit are crucial.

Finally, the particularly intriguing aspect of the book is the author's detailed description of his research methodology, using still and movie cameras. This, I think, would make the book very valuable to first- or second-year design students who are attempting to see and understand how outdoor spaces are actually used.

The book is recommended for student, faculty and practitioner alike. Michael B. Barker, AICP, Administrator, AIA Department of Practice and Design.
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The Third Annual Review of New American Architecture

The intent of this special issue remains essentially the same as when it was started: to assemble the best recent work we can find, regardless of whether it has been published elsewhere. Some of the buildings are winners of AIA honor awards, some are not.

We believe that seeing them all in one place can add perspective on the directions of American architecture. Also, doing this review annually allows us to give the buildings a more analytic look than ever is possible in a monthly rush for first publication.

We believe this year’s crop of buildings is an unusually interesting and varied one. It includes some major works and some small ones, by large and small offices alike. For example, the media building of the year, the New Harmony Atheneum, is followed by a modest church of great quality in a tiny Alabama town.

In terms of approach, the building analyses are perhaps terser than in the past; partly in the belief that one well chosen and presented picture, while perhaps not worth 1,000 words, can take the place of a great many adjectives. On the other hand, there are more voices involved in discussion of directions than in the predecessor issues. D.C.
A Vision Continued

Richard Meier’s Atheneum, New Harmony, Ind.
By Stanley Abercrombie, AIA

Anyone visiting Richard Meier’s office in the last couple of years couldn’t have missed it: the astonishingly detailed model of his design for the Atheneum in New Harmony, Ind. And anyone seeing it might have been forgiven for wondering: Had Meier finally overstepped his limits as a designer; had his fascination with complex parts overwhelmed his control of the total composition; had his work become overly complicated, overly mannered, overwrought?

Now that the Atheneum is built, these worries can be forgotten. The building is an exhilarating beauty, establishing a new and even higher level of achievement in Meier’s work. Here and there it may seem, like the model, to be a bit esthetically muscle-bound, but there is no doubt that it is a superb work of architecture. The features that seemed fussy at one-sixteenth-inch scale are bold and clear at full size; the elaborate interior and exterior circulation system, which might have been suspected of being merely decorative, is seen to be a well-reasoned and fully used accommodation of public movement, and the complexities that might have been overbearing in a tighter context are welcome delights on the building’s actual site—a broad, bare field sloping gently down to the wooded banks of the Wabash River.

It is a beautiful site in a fascinating community, and the building’s purpose is to inform visitors about the town. It houses a giant model of the original settlement, a number of other exhibits and a theater in which a brief film is shown. At the end of the tour through the building, visitors climb (in good weather) to the roof for a view of the town, then descend a stair and a long ramp to visit a series of the town’s restored buildings.

New Harmony was founded in the wilderness in 1814 by the Harmonists, a group of less than a thousand Lutheran Church dissenters from Württemberg, Germany. We all might not have been at home there: The keystones of community life were hard work and celibacy. This life, however, produced an impressive number of sturdily built dormitories, mills and factories, a handsome cruciform brick church and two thousand cultivated acres. In 1825, seeking a location closer to the markets for its goods, the sect sold the entire town and moved to Pennsylvania. But New Harmony’s experimentation was not ended; the buyer was the Welsh reformer Robert Owen, who imported a boatload of noted scholars in an attempt to found an “empire of good sense.” One of Owen’s changes was to convert the Harmonists’ church into an Atheneum (a center of learning). Within two years, Owen admitted his experiment a failure, but many of his imported scholars remained, and New Harmony continued to be exceptional. It claims to have produced the first kindergarden, the first trade school, the first free public school system and the first free library. In 1960 Philip Johnson’s well-known “roofless church” was built in New Harmony, and later and nearby, the

A restored 19th century farmhouse is one of the sights that Meier’s gleaming new visitors’ center explains. Next page, Evelyn Hofer’s photo of the complex facade facing the curving banks of the Wabash.
'The white is not just white but shiny white.'

Pottery, a little-known Meier building housing a ceramics school, was built.

A distinction of New Harmony's character—in contrast to single-period communities like Williamsburg, Va.—is that it preserves elements from so many stages of its past. The addition of the new Atheneum, a building very clearly of the present, is thus a continuation of tradition, not an intrusion.

Meier's all-white palette is used to great advantage here, the only colored materials allowed being maple strip flooring and some dark gray industrial carpeting. In addition (unlike Meier's all-white houses), there is almost no freestanding furniture (an exception being a conference table and chair group similar to the one Meier designed for his library at the Guggenheim Museum). And, on the exterior, the white is not just white but shiny white, the skin formed from metal panels with a porcelain enamel finish. The result of this whiteness and emptiness is an insprritng lack of clutter, and, here again, there is a remarkable difference between model and building. We are accustomed to seeing architects' models as all-white abstractions, no matter what the intended materials and colors. We are not accustomed to such an effect in a finished building of this size, and the effect is powerful.

The Atheneum's complexity, unprecedented in Meier's work, does not necessarily herald a continued escalation of complexity in that work, for the Atheneum is a specific response to its site and program. But the unprecedented presence of the Atheneum does herald a new degree of Meier's confidence as an artist. The Atheneum is at once the best and also the most uncompro­misingly Meier-like of all Meier's work so far. □
Three exterior views, with the building entrance visible in the top two. At bottom, the long ramp serves as an exit from the building and as the beginning guide for a tour of the restored town beyond.
Axonometric, top left, and second and third floor plans, above, show the sequence of exhibit areas wrapped around the building’s largest space, a simple gray and white auditorium. A brief film here ends the visitor’s journey through the building; he then climbs to the roof for a view of the town, then descends the stairs and stepped ramp, right, for a closer look.
Left and left below, carpeted ramp climbs from lobby assembly area, its elaborate configuration heightening visitors' anticipation of the tour. The first exhibit seen on the second floor (bottom right, opposite page) is a scale model of the entire town in a large glass vitrine. Below, a low display case, like the glass wall behind it, undulates in response to the curving riverbank beyond.
The end of the tour: an open roof deck with a view of the river. A farther climb reveals a view, on the other side of the building, of the entire town of New Harmony. And, always close at hand, there is the fascinating play of the Atheneum's geometry and its immaculate porcelain surfaces.
Loachapoka, Ala., is a picturesque farming community of some 200 scattered dwellings, many of them rambling, steep-gabled Victorian houses set among azaleas and sheltered by pecan trees (above). When one of its five churches, the United Methodist, a tiny 135-year-old Greek revival structure on the road to nearby Auburn, was struck by lightning and fire-damaged, the church leaders asked Professor Nicholas D. Davis, AIA, of Auburn University to design a new one.

Davis at first tried to persuade the congregation to reconstruct the old structure, or at least to salvage materials, but his ideas were strongly opposed by the majority of members. Reconstruction also would have proved financially prohibitive, given the generally unskilled level of local workmanship. Instead, Davis designed an all-new sanctuary to seat 120.

Small in Everything But Quality
Loachapoka, Ala., United Methodist Church, Nicholas D. Davis, AIA. By Allen Freeman

After the old church was razed, all that was left on the roadside site was a Sunday school/fellowship building, a 20-year-old brick veneer structure of no distinction that was nevertheless kept for economic reasons. (For one thing, restrooms are not duplicated in the new building.) With its long axis parallel with the adjacent highway, the new sanctuary abuts and effectively screens much of the old.

The new church's wood sheathing echoes the most indigenous and appealing of local structures, the barns and other humble farm buildings. The 45-degree slope of the roof and snorkle-like window that functions as a steeple were derived from the village houses. (A metal roof was originally specified—another allusion to local architecture—but it was substituted by a high-grade asphalt shingle to meet cost restraints.)
The octagonal figure, seen in the courtyard (plan above) and narthex window (top), is most prominent as the cross screen (right), which integrates the altar table at its base.

A rugged cross in a rough-hewn sanctuary.

Particular attention was given to the entrance, which is pulled to the right side of the east front. It creates a sense of procession, up five steps, then under a tiny pergola through a narrow passage which opens to the first full view of the front and of the enclosed courtyard (still unlandscaped), which steps down to provide outdoor seating for services or Sunday school classes.

Inside the new building, the low narthex is fully open to the high-ceilinged sanctuary. In fact, seats have been placed in this entrance area for the larger-than-anticipated Sunday crowds the new church has helped to draw.

The compelling focus of the small sanctuary is Davis's variation of the Jerusalem cross 10 feet square set on a free-standing screen. The cruciform receives natural light from the high, south-facing window. Raking sun rays are captured during the late-morning hours of worship services and the rich texture of the wood cross is revealed.

The unifying material, inside and out, is Western rough-sawn cedar. In the sanctuary, it contrasts with white-painted gypsum board on walls and ceiling, and the deep brown of its knots is picked up and accented by the cut pile carpet. Lighting is by G-bulbs in industrial pivot holders and fluorescents concealed above horizontal members at the ceiling apex. Seating is pine benches from the old church.

Davis chose an octagonal motif, repeated in windows, courtyard plan and cross screen, as a symbol appropriate to unifying the small congregation. The acceptance of the new sanctuary by practically all the congregants is an indication of Davis's success in interpreting the local idiom. That he provided a handsomely detailed building with a high degree of design integrity for only $70,000 is remarkable.
The wood door handles (at right in top photo) pick up the cross hatch of the octagonal narthex window; the low row of windows mimics the half-oculus above.
Exercise in 'Competence and Confidence'

Roche/Dinkeloo's Helen Bonfils Theater, Denver. By S.A.
At a climactic moment in Orson Welles’ “Moby Dick — Rehearsed,” one of the productions chosen to open Denver’s Helen Bonfils Theater complex this winter, a huge trap gapes open, emitting smoke, white light and fiery red light, and gobbling up Captain Ahab and assorted sailors. This is the mouth of the whale, or the gateway to Hell, or perhaps both, but it is also very surely architecture in the service of theater. And in many ways much less conventional than trapped stages, this complex by Roche/Dinkeloo Associates serves theater beautifully. (A disappointment of “Moby Dick — Rehearsed,” for example, is that it plays without intermission, for the lobbies and promenades provided by the architects are powerfully seductive intermission environments.)

The Bonfils building is the newest element of the Denver Center for the Performing Arts, a remarkable four-block supercomplex that also includes the 1907 Auditorium Theater, a sports arena, an eight-level parking garage by Muchow Associates and Hardy Holzman Pfeiffer’s 1978 Boettcher Hall, home of the Denver Symphony Orchestra. Of the two intersecting streets running through the center, one has been decked over and the other closed to vehicles and roofed with an 80-foot-high glass vault. Future plans include the extension of the vault to connect with the adjacent Currigan Hall exhibition center, and the vaulted Galleria is soon to be lined with shops and cafés (“Opening mid-1980,” some signs promise).

The geometry of the Bonfils, which might seem curious if it were a freestanding structure, is a mixture of curves and angles well calculated to complement its existing neighbors. Its glass skin, much in evidence both inside and out, is detailed with a thick horizontal member between panels (similar to that of Roche/Dinkeloo’s United Nations Plaza in New York City), the robust character of this skin being particularly appropriate here, where it is used in conjunction with roughly finished planes of reinforced concrete. Handrails, hanging planters, and other details are similarly direct. But mirrors and mirror-finish metals add theatrical sparkle without fussiness or cuteness, and carpets and fabric-covered wall panels (of fiberglass or gypsum board, depending on the acoustic result needed) are in the most genteel Curving concrete wall with window bands of mirror glass below projecting canopy wraps around 730-seat theater, ‘The Stage.’ Wall terminates in rectangular cantilever, left.
Glazed shed dramatizes the building's entrance from the pedestrian level above city's street system. Parking garage (by Muchow Associates) is seen at right in photo above and across page. Great glazed vault covers pedestrian level between some buildings of the group (see site plan); it will be extended in the future to cover other pedestrian areas. This Galleria focuses on the Bonfils complex and, to its left, Hardy Holzman Pfeiffer's earlier Boettcher Hall, home of the Denver Symphony.
Past the glazed foyer, two theaters and a cinema.

of colors—pearl gray, dusty rose, deep brown—giving the interiors considerable elegance.

As well as can be judged from its initial productions, the Bonfils complex provides near-perfect facilities for a night at the theater. Indeed, because of the building’s skillfully interlocked circulation systems, it provides several fine nights at the theater simultaneously. The building’s largest theater (“The Stage”), wrapped by a curving glazed foyer from which the seating area is fed by passageways arranged like a succession of propeller blades, has a maximum capacity of 730 seats, none more than 50 feet from its thrust stage (composed of four separately elevated platforms). The thrust stage can become a proscenium stage; the vomitories can be plugged with additional seating, and several sections of seats are on lifts, so that even the sight line angles can be varied. A seating study prepared by Roche/Dinkeloo shows 15 house plans for “The Stage,” based on six different stage configurations, and adds that “many other plans are possible.”

A smaller, even more flexible theater (“The Space”) holds a maximum of 600 in a pentagonal space with completely movable seating on several levels, and, for special effects, the stages of these two main theaters can be joined by sliding away the soundproof partition between them. There are also a 260-seat cinema, with its own entrance and box office, a 180-seat “black box” production space (“The Lab”) and a number of smaller rehearsal rooms. So steeply raked is the seating of the largest theater that a ring of office space has been located between its entrance level and its stage level.

Gordon Davidson and H. R. Poindexter were theater consultants for the building; Jules Fisher was lighting consultant; R. Lawrence Kirkegaard & Associates were acoustical consultants, and Rudolph deHarak was graphic designer. Roche/Dinkeloo not only designed the Bonfils building but were also master planners for the entire performing arts center. Production drawings for the center’s great vault were by Muchow Associates.

Because of the prominence of their architects and because of their locations (confronting each other across a not-yet-vaulted section of the pedestrian mall, with a spectacular mountain view beyond), the new Roche/Dinkeloo building and the two-year-old Hardy Holzman Pfeiffer building will inevitably be compared. The two together offer a textbook-worthy demonstration of the range of architectural styles being practiced today. The older Boettcher Hall is in fact the “newer” in its deliberately provocative appearance and the more adventurous in its auditorium design (the orchestra completely surrounded by the audience). But the “new” look is beginning to be dated. So inured have we become to the sight of exposed HVAC ducts that the ones dominating the Boettcher lobby are no longer excitments, just obstructions. Inside the hall, the frilly gold-banded scallops of the balcony parapets archly mock the vulgarity of those in New York City’s Metropolitan Opera, and the ceiling’s plaid pattern of bright colors is intentionally jolting. These effects are all good fun, taken as “punk” decor, but they are characterized by an air of impermanence, more suitable for record albums and clothes than for buildings. Much of what seemed fresh about Boettcher in 1978 already gives us the feeling of having stayed too long at the fair.

The Bonfils building, by contrast, is more conservative, closer to mainstream modernism, and far from the cutting edge of any particular fashion. Being in it now (as well as 20 years from now, one expects) is an uncomplicated delight. There is nothing pinched or cheap about the Bonfils, but it gives the impression that money was sensibly spent, concentrated on functional equipment and gracious public areas rather than on elaborate finishes. It is a work of great competence and confidence, and, if it fails to suggest a new stylistic direction, it is a welcome example of architectural quality transcending stylistness.
The Bonfils building's least felicitous aspect is the blank wall, top photo, facing a busy Denver street. Street traffic continues through the tunnel, seen in both photos above, beneath the major pedestrian level. Access to the parking garage, at left of top photo, is from this tunnel. In photo above, Boettcher Hall is left of the tunnel, the older sports arena at right.
Left, foyer area under glazed shed. Steps at left lead up to 'The Stage'; stair in the background leads down to 'The Space,' a slightly smaller theater. Lobby seating area, below, looks out on a paved pedestrian level and vaulted Galleria beyond.
View from entrance, opposite page, shows box office in white and mirrored materials, other lobby areas in more lush colors. At top of steps, the curving foyer for 'The Stage' theater, left. Stairs, left below, lead down to 'The Space.' Plan shows contrasting shapes of the two largest theaters.
The three main theaters in the building are: opposite page, 'The Stage'; left, the cinema theater, and, below, 'The Space.' The cinema, located beneath the pedestrian walk between the Bonfils and Boettcher buildings, has its own box office and entrance; its ceiling is of fabric-wrapped acoustic panels in catenary curves. In 'The Space' below, all seating is movable and the stage configuration highly flexible.
The Galleria, soon to be a street of shops, enjoys view between Boettcher and Bonfils buildings, of the distant Rockies. Curved wall and canopy of Bonfils building, below, respects Galleria vault and sinuous projections on facing wall of Boettcher.
When a Building Becomes a Machine

Telephone Switching Center, Columbus, Ind., Caudill Rowlett Scott. By S.A.

When does a building become a machine? Perhaps when the people it was meant to house are replaced by electronic equipment. Such a replacement has largely taken place in Columbus, Ind.'s Telephone Switching Center. (Physical expansion of the building was recently required, but, at the same time, its staff of 15 was reduced to three.)

Caudill Rowlett Scott has responded to this situation with appropriate technology (and with enough skill to win a 1980 AIA honor award). Both old and new wings of the building have been covered with silver reflective glass, most of it opaque, but some of it slightly translucent at the two corner stair towers (built to serve a future expansion). This sealed and heavily insulated facade, combined with a heat wheel system that captures and redistributes heat from the banks of electronic switching equipment, makes the building highly energy efficient.

On a side wall, the mirrored surface is interrupted by three bright blue "portholes" for air intake, and, on a rear wall, by a startling row of color-coded sheet metal stacks. Some of these are for air intake (outside air is circulated through the building whenever temperature and humidity are right), some for smoke exhaust in case of fire, one for expelling heat when an emergency diesel generator is in use, and another simply a dummy awaiting some future need. Even for Columbus, famous for its architectural wonders, this futuristic effect is something different.

And this machine, to use the title of Leo Marx's book on technology and the pastoral ideal, is literally a "machine in the garden." Or soon will be, for the elaborate metal trusses that now give the building's two street-front elevations such a mechanistic look are designed as supports for a future jungle of wisteria vines, already planted and creeping upward. The building as it now stands is therefore only a work in progress, and its completion will be interesting to follow, as leaves and blossoms proliferate, doubled in the reflective surface beyond. The final product promises to be a luxuriant, intriguing, delightful building . . . or machine . . . or vine. □
With human workers largely displaced by electronic equipment, the existing building, left, had become obsolete. It has been covered with reflective glass and is the largest element of a new composition that includes trapezoidal stair towers to serve future expansion. The street facades are in turn shielded by giant trellis structures on which wisteria will grow.
Plantings and brick walls and seating platforms are the most prominent elements at street level, below. Actual building forms, as at right, are visually recessive beyond this camouflage. Equipment-filled interiors, below right, are kept dust-free in their newly sealed environment.
Glass at angled building entrance, below, reflects space between building facade and free-standing trellis structure. Right, along a through-block alley, the glass walls are interrupted by a giant calliope of color-coded air intake and exhaust stacks.

Federal Contribution to a City’s Cohesion

William Morgan’s U.S. Courthouse and Office Building, Fort Lauderdale, Fla. By S.A.

Fort Lauderdale, Fla., one of the communities that fall between Palm Beach and Miami, is a town of many aspects: the highway strip and its honky-tonk; the downtown beach and its honky-tonk; the uptown beach and its condominiums, each casting an afternoon shadow on its neighbor’s pool; Las Olas Boulevard, a street of fancy shops; the beautiful network of inland waterways, bordered by houses, and, perhaps most amorphous of all, the downtown. Just where the downtown was centered has, until recently, been questionable. As someone said of a Pollock painting, "If I had a gun, I wouldn’t know where to shoot it."

Now downtown has a heart: a building decently respecting the street grid by being built right out to the property line; a building respecting the climate by providing outdoor space for strolling about, cascading water for pleasure and great overhangs for shade, and a building respecting the community’s identity by providing a dignified—in some ways, an almost cornily classical—structure for its federal government offices. In its context of isolated towers, scattered commercial structures and parking lots, this building is a revelation of what downtown Fort Lauderdale might become.

It appears to work well not only for the city but also for the agencies it houses and for their visitors. William Morgan, FAIA, has designed the central courtyard to function as the building’s primary circulation space, thus enlivening the courtyard with movement and also reducing interior corridors to a minimum.

The building houses a wide assortment of federal agencies—the Federal Bureau of Investigation, the Home Loan Bank Board, the U.S. Customs Judge, Occupational Safety and Health Administration, the Small Business Administration, the offices of a congressman, the Department of Labor—that, before construction, were scattered all over town. The local offices of both the Internal Revenue Service and Social Security are here. (As a maintenance man remarked, “We take it away from ’em and give it back to ’em, all in the same building.”) Agencies that receive frequent visitors are on lower floors, less popular ones on higher floors. Under all is a level of parking for the building’s employees and for those on jury duty.

Although more impressive in concept than in execution (no great sums have been lavished on finishes and details), the building, unlike many government office buildings, has a welcoming character, not a threatening one. Interiors have been brightened by works commissioned under the art-in-architecture program of GSA, and Morgan has knowledgeably manipulated the building forms to capitalize on Florida’s strong sun and shadow. In a downtown area that badly needs it, Morgan’s building establishes a strong example of urbanity and public amenity.
Four above-grade office and courtroom levels, photo and section at left, are stepped back to provide the open terraces that largely supplant interior corridors. The stepping also creates a major multilevel plaza at the heart of the building. Despite this internal complexity, a powerful building cornice built right to the property line, below, defines a simple overall building form and establishes a new standard for urbane downtown planning in the community.
In many ways the Western Life Insurance headquarters and computer center in Woodbury, Minn., can be seen as a new if still imperfect prototype for commercial buildings. For it pursues its principal goal—energy efficiency and appealing design—by combining modernist notions of form, technique and functionalism with age-old precepts of designing with nature.

The orientation on the southeast corner of the 55-acre site provides views toward a wooded pond and maximizes solar gain. The sun's rays plus heat recaptured from computers and transferred to the building radiation system provides for all of the building's heating needs. In addition, underground tanks are used to store surplus heated water and chilled water to supplement airconditioning.

The building is trapezoidal in plan. The windowless, precast east and west elevations appear as sawtoothed bookends framing two utterly different facades. Deep overhangs on each floor act as solar visors on the northwest; on the southeast each floor cantilevers over the one below to shield summer sun yet admit low winter rays. Other energy-saving devices include a solar blind over the entryway glass controlled by the angle of the sun's rays, mirrored plus bronze-tinted glass, thermobreak frames and task lighting built into office furniture.

Offices are open plan to maximize air distribution. To provide a thermal buffer for work spaces and optimum office flexibility, corridors are located along the building's perimeter and the central atrium, which echoes the cantilevered southeast facade.
Windows on the northwest facade (left) are deeply recessed; the floors on the southeast elevation (below) are cantilevered one above the other with a sun louver on the top story and the cantilevers dramatized by an exposed steel structural frame; east facade (bottom right) presents a blank profile; atrium is shown in section, bottom left, and across page.
Of Art, Self-Revelation and Iconoclasm

A house remade by Frank Gehry in Santa Monica, Calif. By John Pastier

Frank Lloyd Wright once said that America was tilted in such a way that everything loose eventually rolled into southern California. Living in the land of Kosher burritos, drive-in churches, roller-skate disco, Rent-A-Wreck auto leasing and the Phantom Toenail Painter, its residents have learned to take most things in stride. Environmental calamities are borne as nonchalantly as cultural ones.

There comes a point, however, when enough is enough, and some of Frank Gehry's neighbors are sure that they don't like what he's done to his little pink house in Santa Monica. In fact, as you glance over these pages, you may even be forming similar opinions yourself.

That's understandable. Gehry's unconventional remodeling is a work of architecture that must be seen and wandered through if it is to be understood. Trying to convey its substance through photographs and words is an act of high futility on a par with alchemists' efforts to transmute lead into gold: The exercise may enlighten one who attempts it but will not produce the hoped-for results. People who know it only second hand, even if they are architects, tend to be unenthusiastic or even dislike the house actively. Those who have been through it become believers, because what the house is most about is what the flat photographic medium is least able to convey: tangible space, palpable scale, time, and a multiplicity of possible comparisons and interactions between its elements. Once those qualities have been experienced, there can be no doubt that this is an extraordinarily original and deeply felt house, despite the somewhat self-conscious iconoclasm of its exterior. [The 1980 honor awards jury apparently agreed, making the house a winner in the extended use category—Ed.]

It can be approached in several ways: as architecture, as a curiosity, as art, or as psychological revelation. The first three paths are well worn, for this house that defies successful publication has appeared in service magazines, newspaper real estate sections, airline magazines, alternative architectural tabloids and establishment architectural slicks. It has been presented as pure imagery, a West Coast cultural phenomenon, a local controversy involving an artist and his less than artistic neighbors and as an occasion for close architectural analysis. What remains is for someone adept in psychology and fluent in English to examine Gehry's house as a manifestation of nonlinear logic, visual symbolism and the Jungian collective unconscious.

Such an examination cannot take place here, but it is important to temper the architectural discussion with explicit recognition of the essentially emotional nature of this house. Some of

Mr. Pastier is a teacher and writer in Los Angeles. His monograph on Cesar Pelli's work will be published in the fall.
Wrapped around the existing house is a screen of plywood, aluminum siding, chain link fencing and other miscellany. Near right, the kitchen; far right the living area, with the original windows held in walls stripped to their studs.
More affinity to Watts Towers than postmodernism.

Gehry's work has been conventionally disciplined and straightforward, but that is not his characteristic mode of design nor is it the one that stimulates him to his best efforts; if anything, it probably bores him. The ultimate basis of his work is nonverbal and visceral, and even with the advent of postmodernism, those are not qualities that the architectural world has been able to deal with easily. Thus, Gehry's house continues to be discussed as though verbal constructs could always be equated with architectural ones, and as though linear thinking could somehow be applied, after the fact, to a work that evolved without significant reliance on that mechanism.

Frank Gehry's house is a major example of postmodern work, but not one arrived at through normal postmodern methods. Granted, it has one foot in the world of self-conscious and intellectualized architectural revisionism, but the other, the one to which more weight has been shifted, is in the world of intensely committed individual builders such as Simon Rodia, who worked out personal visions such as the Watts Towers intuitively and with their own hands. Many of Gehry's influences have clearly come from West Coast avant-garde art, but he has also absorbed the ethos of those tenacious craftsmen that the Walker Art Center has defined as "naives and visionaries."

Of course Gehry did not rebuild the house himself, but it looks as though he might have, and the design clearly benefitted from on-site decisions and feedback from the building process. Nor is he a naif, not after art studies and an architecture degree from the University of Southern California, a year of city planning at Harvard and more than 20 years of diversified practice. Yet he has somehow managed to preserve, or resuscitate, the untrained artisan's capacity to see ordinary materials as wonderful and to use them in unexpected and poetic ways.

Simon Rodia used beer bottles, crockery and sea shells as cladding for his backyard castle, and Gehry has used chain-link fencing, utility grade plywood and corrugated sheet metal for his. Like the neighbors, the local building departments looked askance at both creations.

But there the similarities end, and a critical difference arises: Rodia's spires, although built on an architectural scale, were sculpture. They provided no shelter from the elements and enclosed no useful space. Gehry's design not only encloses space, but plays with it, distributes it with a generous hand, and makes it the point of the whole effort. It is this focus on space that also distinguishes his house from the work of a group of New York City artists: By taking his house apart as well as putting it together, Gehry has invited comparisons with SITE's disintegrating showrooms for Best Products. Within limits such comparisons are useful, particularly since both parties have ventured into the psychology of the unconscious with their paradoxical
Incarnation of the houses of children's dreams.

imagery. However, SITE's work is confined to facades and other external elements, while Gehry's exteriors are the lesser part of his accomplishment—the front elevation, in fact, is the one arguably unsuccessful episode in a complicated effort.

Perhaps unintendedly, the emphasis on interior space is a doubly potent metaphor. It represents the essence of shelter, of inhabiting, of the home as a family refuge and a private place. But it goes still further, suggesting that just as there's more to Gehry's house than the exterior meeting a skeptical neighbor's eye, so there may be more to his design than playing with unusual materials and distorted forms. Complex inner space, at least in this case, parallels complex inner meanings.

The house is a pink, asbestos shingled, gambrel roofed “Dutch colonial” affair in a desirable but environmentally nondescript part of northern Santa Monica. “It was just a dumb little house with charm,” Gehry explains, “and I became interested in trying to make it more important. I became fascinated with creating a shell around it, one that allowed the old house to exist as an object, and, in a sense, defined the house by only showing parts. . . . It's very surreal, and I am interested in surrealism.”

Gehry achieves that surrealism by direct visual reference—his use of diagonals to create illusions of sharp perspective recalls several of de Chirico's paintings—and by displacements such as transforming the old house exterior into an interior wall of the new kitchen and dining room, and then paving the floor of those added spaces with blacktop to represent a driveway that the original house never had. Stripping away some of the old finishes down to the wooden lath, or even the studs and joists, furthers the effect, as does the use of fine-mesh chain link fencing as flooring for a small, almost inaccessible upper walkway leading nowhere. One enters the house through a new door, only to find the old front door two steps beyond. The old windows look out on the new inside of the house, and the line between indoors and out is blurred in a far subtler fashion than ever effected by the old regional standby of sliding glass doors.

The original and added walls are counterposed in such a way that each questions and reassures the other. The new work echoes the old, the old seems to have awaited the new.

This is a splendid place for children—Frank and Berta Gehry have two young sons—for it is a timeless incarnation of all the houses that children have imagined in their dreaming and playing in attics, and even on the first visit it gives one the inexplicable feeling of having been there before. Through his preoccupation with the insides of a house, Gehry has discovered something about the inner mind, and in stripping away old shingles and plaster he has also laid bare part of his soul, and part of ours as well. □
Above left, the master bedroom on the second level. The fireplace was retained, but the attic above removed. The result is one of the pleasing spatial effects that characterize the experience of the house. Above, another window and stud composition.

'Modularity Without Missionary Fervor'

The Charles Sieger house, Miami (architect, the owner). By S.A.
The concept of modular residential construction, part of the postwar dream of cheap, fast industrialized housing, was tried many times, but met the resistance of general inertia, of high cost and of recalcitrant trade unions. Except for some elaborate structures by Moshe Safdie and some very specialized current cases—such as prefabricated hotel rooms being assembled here and shipped intact to the Middle East—such methods are no longer the subject of much attention.

Yet such a modular concept is the basis of a handsome and intelligent new house by Miami architect Charles Sieger, AIA, for his own family. The original house was built just over a year ago, and already the Siegers have added a child’s bedroom and playroom unit; further additions—or alterations to the present structure—can be easily accommodated. Building costs, Sieger says, have been in line with conventional construction, but he claims no startling savings.

For this is modularity without the missionary fervor of previous efforts. It is not intended as a panacea for the world’s housing problems, but simply as a solution for a particular house. As such, it is a great success, imposing a geometric order and a constructional consistency that give the small structure a rare intellectual content. One can do more here than enjoy pleasant spaces; one can enjoy the manipulation of a predetermined system that produced the spaces.

The basic building grid is 12 feet, 6 inches square, and each of its two floors is tied together in a simple post-and-beam manner with perimeter beams at 6 feet, 8 inches high or at 8 feet high or, sometimes, at both heights. All beams are identical, grooved along their top and bottom edges to receive fixed glass or opaque panels as desired, and drilled at their ends to be bolted into steel flanges that tie them to the corner columns. Any beam can be removed and reused in another position. Bolts can be tightened quickly with impact wrenches, and the whole house frame, Sieger says, was erected by three men in seven days. Under the pine flooring, joist directions are alternated in adjacent bays for increased stability, and wind bracing is provided by occasional shear walls of conventional wood stud construction faced on the exterior with cedar and on the interior with gypsum board. That’s all there is to it. Because this structural system provides few hiding places, most plumbing stacks and all air-conditioning ducts are exposed. Each module has its own duct, and these, mercifully, have been painted an unobtrusive flat black.

Within these self-imposed restraints, Sieger has demonstrated an interesting range of possibilities, opening spaces to each other horizontally and vertically and projecting decks and a dining pavilion into the landscape. The double-height living room and part of the master bedroom above are covered with a 25-foot-square of tinted (40 percent reflective) plastic skylights. Between rows of skylights are continuous screened vents to allow the escape of any heat buildup. On uncomfortably sunny days, the skylights can be covered with a canopy of 70 percent shading orchid hothouse screening. The same screening can cover the unenclosed dining pavilion.

Pleasantly complementing the regularity of the house is the exotic contouring of the site. A garbage dump when it was bought, the site has been thoughtfully molded to create a number of lushly planted earth berms that shield views of neighboring houses and a new pond that is positioned to open the site to prevailing southeastern breezes. The house structure, decks and pavilion are all raised above grade on concrete piers for better air circulation and reduced humidity.

The end result is a sequence of pleasant and comfortable rooms within a sequence of ordered units based on a sensible building method. It is a house with all the intellectual satisfactions, but none of the proselytizing, of modular construction.
Top left, rear elevation (with newly added bedroom modules at right) opens to deck. Some exterior bays are filled with cedar-faced stud wall elements that serve as wind-bracing. Two smaller photos show, from interior and from above, the sun screen, adapted from greenhouse use, that can be mechanically drawn over the 25-foot-square skylight. Pit below kitchen, seen in nearer section, is wine cellar built of concrete block. Landing at top of stair leads to bedroom or to studio, above. Simple storage units are also modular and used throughout the house.
Plans show original house, before any extensions. Above, ducts in corners of modules are exposed, painted black. Venetian blinds attached to beams can give visual privacy to bedroom. Right, entrance foyer. Subtle checkerboard results from alternate directions of flooring (and of joists below) for adjacent bays.
Complicated Shapes, Moving Experiences

John Fitzgerald Kennedy Library, Boston
I.M. Pei & Partners. By S.A.

After a dismaying number of delays and site, program and budget changes (largely because of a feeling among the Harvard Square community that the facility would bring unwelcome numbers of tourists to its initially intended site near the square), the John Fitzgerald Kennedy Library has finally been built on breezy, barren Columbia Point, across the harbor from downtown Boston. It was opened last October, and, like the country’s six other Presidential libraries, operates as part of the federal government’s National Archives.

From the outside of the building, a visitor is likely to be entertained, but perhaps also a little puzzled, by the variety of assembled geometries: rectangular solids, wedges, cylinders, freestanding planes. What inner forces and requirements have demanded these forms? The answer, one imagines, will be supplied by the interior volumes.

The answer never really comes, but, once inside, the question is forgotten. For one reason, because the variety of geometry is further complicated rather than explained. The cylindrical element—actually distorted into a tear-drop shape—contains no large circular space but a lobby that is square in plan and two lens-shaped auditoriums. There is an important circular space, but it happens to be in the center of a square lower level, which happens to be beneath the wedge-shaped element visible above grade. In short, the visitor is to be given no lessons about significant form, but treated to a frolic of geometric combinations and intersections.

A second reason for forgetting to question the shapes is that the building turns our attention so appropriately and so skillfully to its exhibits. Upon entering, we are given a tantalizing balcony view into the building’s main space—a soaring volume almost completely glazed—but, once we enter one of the two lens-shaped auditoriums and, after a half-hour film, descend to the lower level exhibition area, our focus is not on architecture, but on John Kennedy—his family, his P.T. boat, his Presidency, his rocking chair, his assassination. Exhibits designed by Chermayeff & Geismar present a rich collection of papers, pennants, costumes, furniture, cartoons, television clips and photographs.

We emerge at last from this avalanche of detailed and often emotionally charged memorabilia into the serene blankness of the building’s main space, and the emergence is one of the most refreshing and releasing experiences modern architecture has ever provided. Except for a few plants and a giant American flag high above, the space is unfurnished. It is not a space meant for contemplation, but for action, for experience.
Manipulating movement into the glazed room.

to serve any utilitarian function, nor is it meant to be studied for its own interest as an architectural wonder; it is meant simply to lift our spirits and invite us to a few quiet moments of reflection. Although vacant, the space capitalizes on its view over a contemplation-provoking panorama of water, with the Boston skyline far in the distance. It is a space in which to stay for a while.

Our contemplation finished, we ascend a granite stair within the space, pass through a bustling corridor of telephones, toilets and sales desks, and are returned not just to the lobby looking out to the bus stop and parking lot, but also, unmistakably, to the here and now.

Perhaps if the building were to be considered in the company of the highest level of masterpieces—the Roman Pantheon, say, or Santa Maria della Consolazione in Todi—we might demand of it less arbitrariness in the shaping of its forms and a more intelligible consonance between its exterior and interior. Even in more comfortable company, we might say that the library lacks the authoritative clarity of Pei's own John Hancock tower, glistening across the water, or the monumental presence of his east wing for the National Gallery of Art.

But what has been done at Columbia Point has been done handsomely. The detailing is elegant and thoughtful, in the Pei tradition, but without ostentation. The general architectural reticence of the exhibition areas, directing our attention to the contents, not the container, is as it should be. And the manipulation of movement through the building, climaxing in the great glazed room, is masterful. The JFK Library provides an experience the visitor will remember with gratitude. □
Three views show the building's close relationship to the waters of Boston Harbor, a relationship particularly appropriate for a memorial to John F. Kennedy. His sailboat 'Victura,' visible in top right photo, is moored on a lawn outside the dark glass prism of the building's main space.
A wedge-shaped building element of white concrete, left, holds office and library functions not generally visited by the public. Entrance from parking field is at balcony level; the main exhibition area is largely below grade, covered by an entrance terrace and a triangular planted courtyard set apart by a long concrete wall. The large area for exhibitions is thus architecturally suppressed, allowing the glass pavilion to dominate the composition.
Exhibitions, designed by Chermayeff & Geismar, are divided into sequential sections dealing with different aspects of JFK's career. These sections cluster around a circular central space containing, behind glass, the President's desk and rocking chair from Kennedy's days in the oval office, top left. Time line display, bottom left, presents events of Kennedy's life chronologically; included are the Berlin speech, the Cuban missile crisis, the nuclear test ban treaty, mental retardation and civil rights concerns, economic policies and space exploration. Ship models, above, represent a more personal interest.
The building's climactic space, entered after the relatively dark confines of the exhibit area, is this glazed pavilion. The changing perspectives of its space frame members invite upward glances, and there are long views across the water to the Boston skyline. From an apsidal recess, right, windows of the library floors overlook the space. Beneath this apse, above, a stair carries visitors back up to the entrance and exit level. Dominating the space, right, is a great flag.
What’s Next?

Since the primary purpose of our annual review of new work is to explore directions in American architecture, it seems appropriate to seek such directions in the minds of architects (and professional observers of architecture) as well as in buildings. So we have done in each of the previous annuals. This year the question asked those surveyed (who were chosen arbitrarily, as before) consisted of the two words above. It was partially amplified in a second question: “Where is architecture heading as the new decade begins?” But it was kept deliberately open and generalized in hope of attracting maximum variety in the responses. This hope was more than realized: The responses are rich in variety and in ideas. We thank all those who responded. We apologize to the few whose responses could not be used because of space limitations.—Ed.

By Reyner Banham

American architecture and the general public will, presumably, drift farther apart in the immediately foreseeable '80s. In spite of the apparent populism of the Venturis, or the shingle-revivalsists, their styles (like Colin Rowe's Roman revival city planning) derive from the inner anxieties and historical traditions of the profession, not from any very explicit external demands or interests. All in their various ways are expressions of "intellectual retrenchment," the loss of those old messianic pretensions that fueled the Corb/Gropius generation, the failure of the free-form activism of the late '60s. In other words, the mood of the profession's opinion makers is cowardly, as they cling to their preferred pieces of sanitized and denatured history (even the poor old International Style in some cases) as if to a security blanket or lucky rabbit foot.

All this introspective preoccupation with the private past of architecture may be fine on the psychiatrist's couch, but is incommunicable and irrelevant out there in Real-Life-Land: Try explaining Collage City or Pacific Design Center to the check-out clerk at your neighborhood Safeway! Now, the arguments for reassembling ancient Rome out of busted utopias or for building a blue glass whale in a residential neighborhood are often very cogent indeed to architects, and highly diverting to long-term professional architecture buffs like myself, but they create a kind of wall of incomprehension between architectural discourse on the one hand and ordinary human conversation on the other.

Obviously, it is possible to persuade some lay folk to buy these arcane messages (otherwise neither Michael Graves nor Peter Eisenman would ever have a client), but not lay folk with urgent needs for a roof over their heads or their commercial enter-

The new typology now emerging is not of an abstract nature, not of a technological utopia, nor does it look back to borrow from history.

By Helmut Jahn, AIA

Within the current questioning of the premises of the modern movement there is a renewed interest in a wider pursuit of the evolution of the modern style into an attempt for a "new synthesis" where all elements come together again in an integrated architecture.

The last 10 years saw a reliance on "one liners" without interest and attempt for synthesis with other approaches. Modernism insists on architecture as a systematic solution to technical problems. Late modernism remains within the restricted language of modernism but exaggerates through logic, emphasis on circulation and systems and mannered and complicated use of abstract forms. Postmodernism believes that architecture is a social art that communicates using codes that deal with elitist pursuits of formal language and abstract esthetics, new rationalism and eclecticism.

Though many of these various approaches have shown new solutions to individual pursuits they fail on the level of a total architecture. Each approach leads to an end in itself and is missing elements that synthesize it.

The new typology now emerging is not of an abstract nature, not of a technological utopia, nor looks back to borrow from history. Its classification can be stated as an appropriate and innovative recombination of all those elements. Its strength lies in the tensions and transformations it provides between function and form, old and new, nature and technology, abstraction and meaning.

Specifically the work reflects:

• an attempt to extend and continue the modernistic principles of an architecture developed along a functional and technical rationale;
• a response to the increased complexity and variety of everyday environment and life;
• an architecture that has appeal and meaning to which it alludes with appropriate references and symbolism—familiar forms, products, colors, styles and metaphysical points of view, the interplay of history and elements and become the metaphor of the design;

Architects had better find out what their act really is, and then get it together.'
constant interaction between an effort to deal with the physical realities of a building and also to deal with theories and ideas for architecture.

“What’s next?” is what’s always been: an intense investigation of the architectural determinants of form.

By Brent C. Brolin

It was almost 10 years ago that I had the pleasure of lunching with Margaret Mead. Our discussion touched on the prediction of a “committee on the year 2000” shortly after President Kennedy’s election. The committee’s objectives included a sort of reconnaissance of the problems America would be facing at the turn of the next century. Within a few months they realized the impossibility of making even the most general predictions about the year 2000 and changed their name to the committee on the year 1980; shortly thereafter they decided it would be perilous to predict change even 10 years in the future and the committee was disbanded.

On that word of caution let us look at some of the options available to architects in the 1980s. As modernism’s restrictive rules continue to fall away the range of design choices will broaden. We already have more “styles” to choose from than at any time in the past 40 years. But the new openness toward the forbidden architectural past is tentative. Architects are exploring its pleasures cautiously and their treatment of history and ornament is still pretty much tongue-in-cheek. We remain embarrassed by connections to the past and seem unable to use history frankly and directly, without some sort of gimmick.

The timidity will pass, however, and with good fortune the profession will adopt a tolerant view of the past. Recent years have seen respected architects borrowing from the early modern movement without being chastised by their peers. Perhaps in a few years we will be able to draw unself-consciously on all the architectural past without being considered uncreative hacks.

Along with the greater openness to the past has come a different expectation of how an architect’s career can evolve. We have all been taught to expect “good” architects to make strong, personal artistic statements. Eero Saarinen, in fact, is the only well-known modernist I can think of who did not have an easily identifiable personal style—he did not use the same architectural vocabulary in every situation.

Now, instead of pursuing one’s own personal style regardless of the context, it is becoming more and more the architect’s role to create a design that usually is compatible with its surroundings. The refreshing heresy here is that the designer should sacrifice the apparent advancement of his or her personal oeuvre for the sake of the architectural ensemble. The idea is not new. Before modernism, truly talented designers like Michelangelo, Scarpa and Waren had little difficulty relating “new” styles to older ones.

The mere fact that this option exists indicates that the heroic age of the architect/artist may be yielding to a more mature time when designers, confident of their craft, can transcend the narrow, egotistical aim of evolving a personal idiom and consider the broader problem of relating each building to the streetscape in which it will be seen.

Today we teeter on a delicate edge, aware of the need for a greater sense of responsibility to the architectural ensemble but unwilling to abandon the image of the architect who must create his own style. The present period of flexibility—or unsuresness—will no doubt be short-lived because, despite their protests, architects will have to consider the search for new rules could lead down several paths. There is a danger, for example, that we start paring down the variety of design approaches until we arrive at another “movement,” with the codified esthetic aims, the ideological rigidity and the instantly identifiable form-vocabulary which that word implies. Should this happen before our modernist prejudices against the past have faded, the likely consequence would be the creation of yet another style,” coherent within its own ranks but as indifferent to its surroundings as modernism.

We should embrace history and ornament intelligently. The sooner we do, the more likely we are to create a climate in which architects can produce buildings that have genuine affinities to the contexts into which they are placed—no matter how original they may be in other respects. For ‘A delicate edge: aware of responsibility to the ensemble, but unwilling to abandon personal style.’

those who think this approach will doom us to monotony, I suggest the following: (1) Look at any number of older European towns whose architecture ranges from Gothic to Art Deco and note the visual harmony that exists within this remarkable stylistic variety. (2) Look at the startling monotony that modernism brought on when we start paring down the variety of design approaches until we arrive at another “movement,” with the codified esthetic aims, the ideological rigidity and the instantly identifiable form-vocabulary which that word implies. Should this happen before our modernist prejudices against the past have faded, the likely consequence would be the creation of yet another style,” coherent within its own ranks but as indifferent to its surroundings as modernism.

We should embrace history and ornament intelligently. The sooner we do, the more likely we are to create a climate in which architects can produce buildings that have genuine affinities to the contexts into which they are placed—no matter how original they may be in other respects. For

By Sim Van der Ryn

“Our discussion touched on the prediction of...”

What’s next? What's next for American architecture?” cannot be answered without asking “what’s next for America?” The rest of the century is going to see a transformation as profound as the Industrial/Scientific/Technological Revolution that shaped the West’s thought and environment over the past 200 years. The paradigm or world view that led to the great material success of Western culture is losing its power to bring coherence to our experience and to hold us together. The dream of liberation through the satisfaction of constantly rising material wants brought about by a benign science and technology is collapsing. In the physical sense it is collapsing because the cheap stocks of energy required to maintain and expand affluence are running out in our lifetime and in any event could never support an American way of life for more than a fraction of the planet’s population. In the cultural sense it is collapsing because the whole concept of energy addiction breed instability at every level of society from the nuclear family to the planetary family of nations. The separation of person from nature and planet, which is part of the paradigm, provides no spiritual basis or ultimate meaning to our existence.

As a chronic optimist, I believe that we can make the transition and transform our society in a way that will guarantee peace and stability. The pessimist in me suspects that old beliefs die hard, and that complete societal disintegration may have to precede renewal. Currently, world affairs are dominated by a struggle over the resources to maintain Western energy addiction. Some of us believe the alternative is for Western nations to use their great wealth and remaining stocks of high quality energy to put in place technologies and a way of life that can be sustained by the continuously available “income” of the sun directly, and, more importantly, as it is concentrated by natural systems such as photosynthesis, decomposition, nutrient chains and the hydrological cycle. Comprehensive analysis by Amory Lovins and others shows that the “soft path”...
is technically and economically possible, however, it doesn't fit into the still prevailing paradigm of “progress through material growth,” or its corollary “strength through exhaustion.”

All these trends are reflected in what has happened in architecture. The old paradigm has exhausted and bankrupted itself in almost every area of national life, and architecture is no exception. The vision of the strongest movement of the century, nurtured in the Bauhaus and brought to this country on the eve of World War II, was of a humanizing, liberating architecture made possible by an enlightened technology grounded in democratic process. As powerful and effective as the vision was in the hands of a teacher, organizer, architect such as Gropius, it degenerated into style under the impact of institutional clients who demanded that architects confine themselves to narrow specialist roles and cease to attempt to address or attack the bigger questions. Perhaps only Rucky Fuller keeps the idea alive. In the teaching and work of Louis Kahn architecture did sometimes transcend the modern paradigm producing a true architecture of the spirit and of nature. In the hands of lesser lights, it degenerated into style.

So today we are confronted by an architectural intermission, the stage between the death of one paradigm and the birth of another. True, there are those who dance on stage briefly, one more outrageously insubstantial than the next. Andy Warhol predicted that in the media society we all would be famous for ten minutes. The passing infatuation with the Club of New York, hosted by the dark presence of Philip Johnson, is a sign of the times, a quick blur of colored pencil fragments and rhetoric notable for its vacuous and decadent sophistry.

The rest of the profession grinds away, seemingly oblivious to the stage. The prestigious big firms serve the multinational. Many major firms over the past five years made it only by exporting the new obsolescent American dream to the newly rich countries of the Middle East. Lesser firms take what they can get.

In the chaos there are hopeful signs. More and more architects seek to maintain their independence and some control over their own work by becoming their own clients, and mastering the worlds of finance, development and politics. Many younger architects have found a niche in the role of traditional master builder, designing and building one small project at a time. These architects are largely responsible for nurturing and exporting a pool of traditional crafts and skills that are no longer part of the mechanized American building industry. And most of the significant innovation in renewable energy design is coming from this network of people who are casting off tired formulas—of bigness—technical specialization and linear, mechanized organization.

What are some aspects of the new paradigm and how is it likely to affect our architectural future? As the technological leverage of systems subsidized by fossil fuels vanishes, engineering and technology will become grounded in ecology and biology, in order to tap into the constantly renewed energy of natural systems. Buildings, habitats, cities will be redesigned to more closely integrate production and consumption of energy, food, water and wastes. Today buildings, cities and environments are still conceived of as simple machines that transform a small portion of a large flow of imported resources and energy into useful products, throwing most away as waste heat and pollution of various kinds. Today's architecture and cities are entropy machines. Architecture and urbanism need to be imagined in their biological context as organisms processing energy, matter and information through many cycles of use. The scale of present service systems—such as energy production and waste treatment—will decrease and be better fitted into the particular ecological character of a location. Buildings will assume multiple functions, integrating some food and energy production as well as processing their own wastes. Living place and work place will be less differentiated. The densities of suburbs will increase and they will become more like communities, while the intense daytime densities of places like Manhattan will become more dispersed. The transition will come slowly opposed but complementary trends. Big government will be increasingly occupied with allocating centralized scarce resources such as oil and coal. There will be a new resurgency of local and regional communities as people look to the local ecosystem to meet needs regionally.

It is too early to tell how the architectural profession will adapt to meet these new realities, or whether in fact it will. Fundamentally, I am talking about a way of looking at what we do that goes beyond simple coefficients of performance or energy efficiency. I am talking about architectural form being derived out of an entirely unfamiliar set of determinants. There is a small and growing group of whole system pioneers—some from architecture, some from other disciplines—which is creating the first crude models of an ecologically based architecture. Biologically oriented designers such as Thomas R. Vreeland Jr., AIA

What's next? Romantic classicism: An architecture which is geometrically ordered as is Durand's and which can borrow thematic materials freely from wherever it sees fit. It will be classical because we are tired of the loose informality of the people's architecture of the '60s and long for a system of plan organization as the Beaux-Arts had: axes for ordering our plans; apparent symmetry, as in early Wright or late Lutyens, and hierarchies of spaces and of masses.

Wagner's St. Leopold's Church looks good to us today, as a church should, while Notre Dame du Haut seems diminished, contorted.

It will be romantic because we are prepared to borrow widely from historical sources very much as turn-of-the-century architects did and to use classical forms in less than classical ways. Byzantine, Moorish and secession influences will be blended with the purest modern.

There is a renewed interest in other architectures than our own and in our own earlier history and tradition. Gabriell, Laugier and Ruskin will speak to us once more as we have the need to understand the rules of architecture once again.

There will be a return to ornament because it is a natural form of communication between buildings and users, and to the use of color and pattern on the exterior of buildings. People want to get pleasure again from their buildings. We will return to the images of childhood, of steep-roofed, high-chimneyed cottages and gaily bedecked castles that gave us joy before we learned to rule them out for reasons of morality and rationalism.

There will be emphasis on wall surfaces over skeletal structures—in fact, there already is—and on windows over window walls.

Finally, it is my sincere hope that there will be a return to good craftsmanship in building. There must be an end to gypboard, built-up roofing, cracked concrete and stucco, cyclone fencing and extruded aluminum and a revival of good brick and timber work, of the use of slate and tile, cut stone and good plaster work.

What architects among us best exemplify this program? Isozaki and Hollein, in my opinion.

I may be dreaming, but this is what I hope for as we go into the '80s.

By Robert Geddes, AIA

Architecture evolves. One way in which it evolves is in its relationships with nature. It responds to nature. It learns from nature. It serves nature. It transforms nature. And, in our present situation, it will itself be transformed by nature reconsidered. There are four aspects of nature that will influence the development of new architecture: (1) nature
as resource, the material of architecture; (2) nature as context, the setting of architecture; (3) nature as content, the commodity of architecture; (4) nature as image, the metaphor for architecture.

The contemporary situation is in marked contrast to the early phase of modern architecture following the industrial revolution. Then the resources of nature seemed limitless. Energy and power, exploitation and mechanization were seen as steps toward salvation and were expressed as images of the good. The iconography was taken from the machine, the steamship, the airplane and the dynamo. Now, a fundamental shift in values has occurred. Nature is seen as fragile and limited. The imagery of nature celebrates it as life-supporting but fragile, stimulating but limited. The imagery of nature will replace the imagery of the machine that has served modern architecture in its early phases. The ornament of the future will be new images of nature. New concepts of the design of landscape—nature transformed by architecture—will emerge. And, in architecture itself, the most powerful image and metaphor will be an idealized nature seen as the edge of the forest, the benign place where the forest and the grass-land meet.

By Nathaniel Owings, FAIA

If you ask me, the architect is barely holding his own against an onrushing, uncontrollable chaotic state. Energy depletion, economic collapse, nuclear proliferation and destruction of most living creatures save man are prime indicators of this condition.

The architect might naturally be expected to provide the pattern and structure of man's society through which some order might be brought out of this chaos. But his influence here is impalpable.

I have here on my desk a little book entitled Man's Struggle for Shelter in the Urbanized World by Charles Abrams, published in 1964. Can we architects name an issue to which we should be more responsive? Until this is resolved, the architect's true role as a professional remains unfulfilled.

We find the architect spinning his small set of wheels within his own precious milieu tangentially harnessed to the great millstones of our society whose systems are themselves in the process of self destruction. Harvard Magazine, January 1980, addressed these same issues by questioning several professors of different disciplines. The prime concerns were: food, its aching absence for millions of human beings throughout every continent, and species at the destruction of natural habitats accelerating to ruinous proportions in the 1980s. A professor of divinity spoke of the long-term redistribution of wealth, while a professor of economics predicted the total reconstruction of the capitalistic system from the shop floor to the board room. No mention was made of either architects or architecture.

The planner, professor Peter Rogers, whose overriding concerns involved "cities and regions where the majority of the population lives a marginal existence on the edge of survival," believed that the next decade will be the crucial one in determining whether the 21st century will be worth leaving to our children.

In my own view, the architect's function, to be at all relevant in light of the world's

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The architect is barely holding his own against an onrushing, uncontrollable chaotic state. His influence is impalpable.

problems, is to take a leading role in creating and directing a basic planning process to guide the affairs of man, his shelter and his environment. Yet, I see nothing to indicate that the architect will change his present attitude or philosophy in the foreseeable decades ahead.

With half a century behind me and hopefully a decade or so ahead, and my beloved profession in jeopardy, it seems wise to look back and check out the trends of the last century.

In the July issue of the 1976 AIA Journal, we find a broad spectrum of representative American architecture, all splendid works scattered over the years and the country. Quality, style and taste are represented but seemingly without trend. These enclaves of talented work are generally found surrounded by growing environmental deterioration. Unfortunately, trends are evidenced in the rapidly changing intrusions into the spaces in between—the transportation, the masses of people and the two billion acres of land on which they live. Large, leaderless in the areas of land use and land planning, the nation should be turning to the architectural profession for far-sighted directives and technical guidance.

As I see it, there are no options. Either we, as architects, take our place on the front line or the velocity of destructive trends will be totally unstoppable—and that's when we will find ourselves "on the edge of survival."

By Thomas H. Beeby

Once upon a time long ago there was a poor draftsman who happened to meet his employer, the Architect. Hoping to interest him, he boasted: "I have a beautiful daughter who is a student and can foresee what will happen next in architecture." The Architect was impressed. "That's an art I like; if your daughter is really as clever as you say, bring her to my office tomorrow and I'll see for myself what she can do."

So when the girl came the next day, the Architect took her to a small room filled with drawings, gave her a drafting board and ordered her to get to work. "You have one night to change this banal project into a piece of avant-garde architecture, but if you fail, your father will be fired and never work again in this city," Then he left the room and locked the door behind him.

The draftsman's daughter had no idea what to do; and after a while she saw there was no escape and burst into tears. Suddenly, the door flew open and a strange little man

Honore Daumier. Les Paysagistes, 1865.
with a heavy accent rushed in and asked why she was crying. "I have to transform this ordinary project into the latest thing, and I don't know how."

"What will you give me if I do it for you?" asked the little man.

Since she had no material possessions, she offered him something that was very important to her. "My mind," she replied.

He nodded and set down at the table opening a large black book he carried. They worked the whole night, and before morning had transformed the project into a functional building of great perfection.

When the Architect returned at sunrise, he was amazed to see what she had done, so that night he locked her up in a bigger room with a larger project and set her to work a second time. As the poor girl wept, the door flew open and in danced the little man.

"What will you give me if I help you again?"

In desperation, she offered him something that she had always held to be most precious.

"My soul," she replied. He nodded, opened his large black book and by morning they had transformed the project into a functional building of great perfection.

As soon as she was alone, the strange little fellow appeared. "What will you give me if I do your work for you this last time?"

"I have nothing left."

"Then promise me your first child if you marry the Architect."

"A lot can happen between now and then," she thought. In despair, she agreed.

The little man opened his large black book and set to work. When all was ready, he vanished; and in the morning, when the Architect found his enormous project transformed into a work of abstract purity, he married the draftsman's daughter and made her his partner.

A year later she gave birth to a miraculous boy with long golden tresses; but by now she had already forgotten the strange little man. As the '80s begin, let us talk of architecture as buildings. Buildings have character. Buildings are tough, unyielding; they endure.

Architecture was made fashionable in the '70s. It is now discussed over teacups at faculty receptions or at honor award jury sessions, not in terms of structure or function, but for its surface decoration. Between signs of tea or in magazines you will hear words like these: "The flat, lightweight, symbolic ornament eschews pomposity, mixing architectural metaphors and making tongue-in-cheek allusions with great wit... It has a strong and surrealistic imagery." Architecture (as decoration) is back in the hands of the academy. Some critics do a dainty minuet in front of each arbitrarily elegant facade of what looks like paper structures. It is even out of fashion these days to illustrate designs with perspective drawings — they must now be axonometric.

In contrast to the current magazine fashion, we remember powerful buildings that engaged both heart and mind. We remember the Wainwright and Reliance Buildings, the Kimbell Museum. And who can forget Belluschi's Equitable Building that started the whole postwar tidal wave of clearly expressed structural facades? Perhaps all the finest and purest was summed up in Johnson's own house at New Canaan, Conn.

An inspired structural and functional purpose animated these structures. Site layout, plan, cross section — all contributed to a unified, creative whole. And while it's true that few architects were able to reach this level of design achievement, there was general consensus as to method, most agreeing that conditions shape the building, that it was appropriate to use rocks and wood and canvas in the desert, concrete or steel, brick and glass in the city, logs and shingles in the forest.

Today it's another story. As Ada Louise Huxtable said in a recent report to the American Academy of Arts and Sciences: "... endless semiology, typologies and half-baked esthetic Marxism... small ideas delivered in large words weighed down with exotic and private references, masses of pretentious and gluttonous prose."

Pompous architectural language leads to pompous designs and inappropriate buildings. Two examples: for the mentally retarded in the Bronx—a superbly crafted shiny metal wall structure, in its unapproachable high-tech fashion alien and frightening to its users, but rewarded with an AIA honor award. In Wilmette, Ill., for the Baha'i Faith, whose officials asked for an architect to build last 1,000 years—a glass-walled design with plaster or concrete Corin- thian columns supporting a stainless steel roof, to be built near the old temple, whose stone or concrete dome seems better accoutered with the millennium.

Even here in Seattle the well-publicized tendency is felt. (Are architects such sheep?) A couple of blocks from our office a new restaurant opened last January: glass block bar, industrial pipe stair-raisers made into a prominent interior feature; hard materials unfriendly to the touch and the eye.

The talented architects who have worked the mannerist field will tire of it sooner than will their imitators. We will once again learn the lessons of the past, that architectural style will not dominate the space, causing a psychological chill that sends many who enter back out to the sidewalk at once.

Clever and fashionable and witty this work often is to those who read architectural criticism. But, off the printed page, will it endure? Will it prevail in the '80s? I think not. Indeed, I believe the talented architects who have worked this mannerist field will tire of it much sooner than will their imitators.

The new facadeism, unrelated to plan or structure or climate, is like a cake made entirely of frosting. I think we will find serious architects once again reading Rudofsky, studying the nonpedigreed buildings that...
Angeles Times.

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John Dreyfuss

By John Dreyfuss

As the '80s begin, architecture is turning from historicism toward art. Also, at least in the U.S., architecture is being molded by its existence in a land of plenty that is rapidly becoming a land of shortages.

The International Style that preceded the style of historicism has been pronounced dead by a number of architectural pundits. It is a generation of art-oriented architecture, honoring history, but not mimicking it. This third generation is gaining momentum, and seems sure to continue doing so. Its members often design buildings that are sculptures too. And they love decoration. But the ornaments they use are not the ornate, extravagant decorations of times past. There is no money for that.

So these architects emphasize ornaments that are almost two dimensional. They are at once embellishments and signboards. As embellishments, they provide esthetic pleasure. As signs, they imply more extensive decoration than what is there. It is a case of what you interpret is what you get.

Besides more decoration in the next decade, architecture is destined for more shortages. Money will be in short supply. Energy will be too. So will materials. About the only necessary ingredient of architecture likely to be in long supply is architects.

Because of shortages, a possible, unpleasant and fortunately remote prospect lurks beyond the horizon. Instead of art, honoring history, but not mimicking it. This third generation is gaining momentum, and seems sure to continue doing so. Its members often design buildings that are sculptures too. And they love decoration. But the ornaments they use are not the ornate, extravagant decorations of times past. There is no money for that.

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‘We may be left with the most depressing of architecture. . . . At least it would keep the rain out.'

John Belle, AIA

My response to "what’s next?" has little to say about the traditional areas of interest and concern for architects—e.g., design, style and theory. I prefer to answer the question through other issues that I feel will be more important aspects of the question. This is not meant to suggest that design is unimportant now or going to be less important in the future.

A national urban policy: What’s next for architects in the implementation of the Carter Administration’s national urban policy? Too general a theme? Pause and consider the following: One of the three major national urban policy tools now funded is the urban development action grant (UDAG) program. UDAG ($675 million present funding level) is responsible for making the difference between building or not building many worthwhile projects. In my town, New York City, 16 UDAGs helped to bridge the dollar gap and compensated for the extra costs of building projects such as a downtown shopping mall in Brooklyn, the American Stock Exchange at Battery Park City, the conversion of a factory into a shopping mall in the Bronx, the reconstruction of a row of theaters on West 42nd Street and the restoration of the South Street Seaport Museum. Every one of these projects needed architects and engineers and every project would have died on the vine without UDAG help.

With financing and construction costs spiraling, we need every assistance we can get from the federal government. Therefore, let’s get busy lobbying for national urban policy and specific programs such as UDAG. But do it as architects, emphasizing that these funds can be the difference to bring well-designed and needed additions to our communities.

The architectural media: We live in a very well informed society, one of the byproducts of which is a tremendous increase in the general public’s knowledge of the built world. Tourism and recreational activities—which will continue to be a major growth activity in the '80s—have spread so people spend lots of their leisure time and dollars visiting cultural attractions. The Vieux Carré in New Orleans, ceremonial Washington, D.C., Main Street in Disney World, colonial Williamsburg, are all architecture and receive millions continued on page 208
Three Phenomena

By Donald Canty
Larkspur Landing Shopping Center in Marin County, Calif. (left and below), exhibits a complicated kind of regionalism. It is clearly at home in the Bay Area, with its board cladding, weathered look, and even some vaguely Victorian allusions reminiscent of nearby San Francisco. Yet it was designed by a southern California architect, Robert Kupper, AIA, of Leason Pomeroy Associates, who acknowledges the influence of the New England saltbox on the forms. The Flintoft house by Bissell & Wells (bottom) is on Nantucket Island, Mass., and looks it, even to the widow’s walk. Yet its saltbox plan has had segments cut from it to take advantage of views and create some interesting angles and movement.

1. Regionalism

New attention to regionalism is coming from two seemingly contradictory directions. One is postmodernism, whose handmaiden pluralism allows exploration of regional forms. (By definition one cannot be a truly dedicated Miesian and be a regionalist.) Postmodernism’s predilection to historicism also helps, since regional forms are apt to be traditional. These influences may be on the surface of things, but they seem real. The second and deeper source of a new respect for regionalism is energy consciousness, whose potential for truly revolutionary impact on architectural thought is only now beginning to be apparent. The key word is particularity. Energy-conscious design responds to this situation in this place at this time; it succeeds or fails in direct consequence of its ability to deal with particular conditions. It must respond to fluctuations at even micro scale. (The particularly energy-conscious Marguerite Villecco, a frequent contributor to these pages, is at the point of dismissing out of hand any claim to architecture on the part of a new building whose four faces are identical.) Replicate the concern with particularity on a larger scale and the result is automatically regionalism.
More tropical forms of regionalism:
above, Yaurel elementary school, Arroyo, Puerto Rico, by Jorge del Rio, AIA; near right, Biltmore tennis center, Coral Gables, Fla., by Ferendino, Grafton, Spillis, Candela; above right, Lawaetz farm house, St. Croix, U.S. Virgin Islands, by TASC Team architects. Far right, the Tennis Ranch near Taos, N.M., by Antoine Predock, AIA, its rugged forms rising as naturally from the desert as those of an ancient Indian pueblo.
This is to note the emergence of what might be termed hard-core historicism. It goes beyond allusion of past forms to their actual replication. Such has been preached by some theorists such as Allan Greenberg of Princeton, but it is only now beginning to be practiced in a serious way. In some cases, such as the farmhouse on these pages and the apartments overleaf, one's reaction after the shock has worn off can be “why not?” After all, these forms have served these places for a long time, so why discard them? In other cases, such as the office building overleaf, retreat into history has turned to architectural rout. Which may mean that, as with other architectural devices, success in replication of forms from the past may depend a lot on how and why it is done.
The Beasley farmhouse in Monroe, Wis., replaced an original destroyed by fire. It is not a replica of the first, but it was designed 'to maintain the vernacular of prototype 19th-century wood frame buildings of the area,' according to architects Hammond Beeby & Babka. At the Kentucky state horse park in Lexington (right) architects Chrisman, Miller, Wallace took the basic form for 23 new buildings from an existing barn of undetermined age.
Victoria Mews (right) cascades cheerfully down San Francisco's Portrero Hill, in form and detail echoing the city of a century ago. Architect: Barovetto, Ruscitto & Barovetto. Opryland hotel in Nashville, Tenn. (below), by Earl Swensson Associates, wraps some very contemporary spaces and facilities in facades that veer between historicism and outright replication. Morrison corporate headquarters in Mobile, Ala., by Frederick C. Woods (bottom), displays no such ambiguity. The building seeks to express the heritage and solidarity on which the corporation was founded many years ago.
3. Multichrome

For some years bright colors have been familiar embellishments on the bones and intestines of buildings. Now they are moving to the skin. Whether more exterior coloration than before is being seen is hard to say, but it can be said that when architects turn to color on the outsides of their buildings they are turning to brighter colors than before. Primary colors, in particular, seem to be gaining in popularity. The bright blooming of the buildings on these pages at about the same time may be a trend's unfolding or may be coincidence but it is indisputably cheerful. If trend it is, it is a continuation of a reawakening to color in the 1970s, as documented in a special issue of this magazine in October 1978. As pointed out there, the use of vivid color flourished in postwar years and was all but outlawed in the 1960s with the coming to dominance of the modern movement, especially its German branch. It was a return to the "strong prejudice that colored architecture is somehow fine for children, the lower classes or constituents of primitive cultures," the introduction to that issue said. That prejudice began to fade in the 1970s. Whether it will continue to do so, and buildings continue to brighten in the 1980s, shall be seen.

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Left and above, Lincoln Villas community center in Jacksonville, Fla., was designed by architect McDonald & Gustafson to be a 'popular, festive place' in a neighborhood where bright color is common. Right, Edward R. Roybal health center in a mainly Mexican-American neighborhood of Los Angeles is clad in bright tiles 'evoking the exuberance of Mexican art.'
Pico Union Villa in Los Angeles (left) is housing for the Hispanic elderly. John V. Mutlow, AIA, has given each facade its own bright pastel color, with darker recesses and sunshades. Eric Moss, AIA, and Jim Stafford have used color to relieve what could have been an oppressive (if interestingly organized) facade on this speculative warehouse-office complex in Los Angeles (above). William L. Pereira Associates has made what are essentially garage doors into something like paintings at the auto technology center of Cerritos College, Norwalk, Calif. (right). The firm said the use of bright colors inside and out was meant to 'maintain alertness' and to 'stimulate students and faculty.'
What’s Next? cont.

of visitors each year. What should be next for the media of our profession—especially the journals and trade magazines—is a conscious campaign aimed at reminding our profession that the mass of ordinary citizens are much more impressed and affected by the impact of that built world than they will ever be by the latest corporate headquarters with a funny shaped roof, or the current style of architectural delineation in four shades of pastel pink and puce. It’s time our media spent more space reminding us of the popular built world and how it might influence the work on our drawing boards instead of publishing esoterica.

Young architects: Rebuilding the obsolete infrastructure of our cities and recycling existing structures for new uses is going to be their turf. Despite the present fashionable but somewhat shallow attention given to the field of rehabilitation and restoration, the models to be emulated are still held to be the prestige building as an “architectural statement.” So, young architects’ attitudes and aspirations are distorted and distracted away from the real world by the values of their peers who still dream that they are free of these realities. Coming on the heels of five or six years at architectural school—which is typically staffed by the last of the great romantics, architects who are dreamers of a new order; they thought that they knew which way society had to go, and felt capable of ushering it into that direction. This belief has been shattered since; but the energy crunch is making us feel again that we have an important role. We may regain a sense of mission, but no sense of direction. Unlike the masters, we have not picked our goals: We are responding to external pressure. This is how things ought to be in a balanced society; but for a generation nurtured in the dream of the architect as leader it is difficult to wake up.

The increasing cost of energy, along with other realities, will force us to squeeze funds out of all the other items of the budget. Faced with such prospects, many will continue to expect technological breakthroughs to put us back where we were or better. Such faith may prevent us from responding to scarcity with retrenchment. The gap between perception and reality may grow dangerously.

Due to advances in communication and data processing technology, information is the one resource of which we can expect to have more in the future. Assuming that the consumption of information will not grow as sharply as the ability to distribute it, it follows that a few privileged information sources may tend to dominate the scene. It will be essential for architects and educators (as well as for everybody else) to understand the information market in order to be effective.

Image-designing may be the architect’s most influential role in the years to come. With improvements in image dissemination, we are reaching a stage in which the social significance of images exceeds the impact of structures on their site. The next step may well spare us the usual problems of building: We may design images of buildings and lifestyles to be fed into the information distribution systems. Users may then procure the necessary paraphernalia from the market, with little additional architectural services. Architectural endeavors chastized as escapism (Roma Intertotra the second Chicago Tribune competition and so on) may in fact be forerunners of this trend. Only one step is needed to legitimize such activities—to coordinate them with an infrastructure capable of providing the appropriate environmental products upon demand.

As expectations and reality fall further apart, fantasy will fill the gap. Contrary to prevailing architectural philosophies, and very much within the spirit of baroque, materials and buildings will be used illusionistically to suggest worlds other than the real one. The building and entertainment industries (and later, the education system) will merge to provide electronic image and information processing environments. Disney World is only a token of what is to come.

For the last half century architects have alternatively tried the roles of visionary apostle, technocrat, social activist and tastemaker. Our professional identity has become blurred. It is the latter is particularly appealing in its promise to unravel the multiple interactions among many complex social and physical systems. Seem from the standpoint—among more urgent needs, the skirmishes between postmodernist, late modernists, exmodernists and the like seem rather unsubstantial. This is not to imply, however, that they are void of significance. We should study them to understand the undercurrents of architectural taste in a postindustrial society. We should approach the contemporary architectural scene with the detachment of an anthropologist watching a primitive society: not to take sides, but to identify the rules of operation of the system.

By Thomas Hine

The architect in the 1980s has the opportunity to once again assume a civic responsibility. After decades of prosperity the portion of the environment influenced by architects has steadily shrunk and we face times of austerity. Architects are among those to whom society looks for guidance when it is forced to meet its needs as a society, rather than as a huge collection of individuals.

In recent years, architects have discovered the vitality of the shopping strip and the rich symbolism of suburban housing. Since fantasy has long been considered a sin by architects, its sudden respectability has induced an extreme response. Some have reveled in the new freedom, others have self-righteously continued to deny themselves while still others seem convinced it is still a sin, but have indulged nevertheless. But architects cannot compete very well in the environ-

By Juan Pablo Bonta

Most architects feel that the energy crisis is the major problem facing us during the ’80s. For how long this belief is to stay with us I do not know, but I fear we will continue jumping from one issue into another—romantics, architects who are dreamers of a new order; they thought that they knew which way society had to go, and felt capable of ushering it into that direction. This belief has been shattered since; but the energy crunch is making us feel again that we have an important role. We may regain a sense of mission, but no sense of direction. Unlike the masters, we have not picked our goals: We are responding to external pressure. This is how things ought to be in a balanced society; but for a generation nurtured in the dream of the architect as leader it is difficult to wake up.

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By Juan Pablo Bonta
The architect has reacquired important responsibilities. The result should be more interesting buildings, and maybe even some beautiful ones.

Some monumental problems loom. Facing them, understanding them and solving them will determine the changing appearance of our architecture and will shape our philosophies and our teaching institutions. It is possible to list some of these problems and speculate on the directions one must pursue to overcome them.

Some shortages of nonrenewable energy on a constantly increasing critical path is an important first influence. It is becoming increasingly understood that when one speaks of energy use in buildings, what is being examined is the entire philosophical basis for designing buildings.

The building must be thought of as the ameliorating membrane between the occupants and the conditions outside. The amount of building, the kind of building can be limited to what is required to permit the admission of what is desirable—light, air movement, heat, the absence of heat (cold)—and the rejection of what is injurious or unwanted—noise, odors, moisture, particles and various chemicals that may be airborne, and so forth. It is becoming apparent to more and more architects, to judge from the magazines at home and abroad, that when one speaks of energy use in buildings, what is being examined is the entire philosophical basis for designing buildings.
tion that we can expect to become more critical in the years ahead as our own metal and ore extractions become more difficult, our lumber industry becomes less able to satisfy small building requirements, sand and gravel banks become depleted, water supplies diminish and minerals like gypsum are no longer easily available.

And if the problem facing architects seems formidable in terms of our own internal building requirements, it becomes much more awesome if looked at globally. If starvation in Africa and Southeast Asia has been a reality these past years, all logistical problems, including the provision of shelter for a possible two billion increase in population in the next couple of decades, will bring with it an unprecedented requirement for new criteria for what is built where and what materials and services can be assigned. These are the external realities that will shape our building product in the next decade. They will make the preoccupation with postmodernism inconsequential. I believe, however, that certain underlying attitudes, rather than forms, that were expressed in the '20s and '30s may well be precedents for the new architecture of the '80s.

By Sarah P. Harkness, FAIA

Recently, a friend quoted her daughter as saying, "I'm tired of being a child of the '60s!" The daughter has been doing those wonderful, alternative, sociological, artistic, small-scale farm projects that children of the '60s believed in, and doing them exceedingly well. But it's a struggle, and she's lonely.

Did we not listen? Or do we not have the courage to listen? The '60s generation kids grew up with a mushroom cloud hanging over their heads, and then they found that "atoms for peace" was a delusion. They in­dicated that farming was a way toward living with nature instead of conquering it—but such a turnabout has to reverse the flywheel of history.

Is this the reason architects have been so slow to catch on? The modern movement began with clarity of purpose and openness to form, but gradually changed to fuzziness of purpose and stylism of form. In the mean­time, there's been a groundswell of small-scale farming; the poor, the elderly, city dwellers and suburbanites are growing tomatoes in their backyards, on roofs and balconies. What does that have to do with architecture? What we had better be sure of is that we create the differences between conservator societies in older parts of the country and growing communities in younger places. Economic turbulence has been the condition under which new design happened, so we may look to some of our young frontiers for fresh design ideas. This could mean that Alaska, Australia and South America may sneak up on us. It is already. It is hoped that the sun belt will flower.

On the other hand, in depressed areas, a different kind of design opportunity may arise: In needy times, suddenly people depend on each other; expressions of community may come back as happened in the CCC days of the depression (whereas boom areas will have to depend on each other, and less­sokeur communities). We certainly need a new emphasis on the concept of visual design to overcome what Rene Dubas calls our emotional and physical junk heaps of cities.

Effects of new knowledge: I am pessimistic about our knowledge of environment and interest in new information generated by the sciences.

"We must not allow ourselves to be specialized into corners where our generalist contributions are not used."

We architects suddenly have a lot to learn from ethnologists, urban anthropologists and psychologists: how we perceive things, how real people use space, how we live with each other and how we live in nature. The challenge to the generalists among us is to stay up with new knowledge, to know the net impact of its effects, so that we can cover more bases when we synthesize functions into form. We are not trained or psychologically ready to apply in a sophisticated way the nuances of sociology or biology to the environments we make. We have not learned that many of our creations—less dramatic failures than Pruitt-Igoe—do not serve specific humans; we continue to make the same mistakes in shallow programming for abstract prototypes.

Despite the negative harbingers, I am intrigued and heartened with the challenge to create unique environments—each with a sense of place tied strongly to its specific regional and urban context.

I am bored with the universalism of the International Style which was for so long a part of the excitement of architecture just after World War II. Then everyone wanted to try out the prefab part or new material, applying it ad infinitum as we went about sealing up and lighting up and attempting to celebrate technology in esthetics. Now I sense a new excitement in expressing the uniqueness of a place.

Recently I heard the following process described for creating an environment: A Texas retailer had his New York interior consultant recommend a Japanese working in Cambridge to produce an important sculpture for his Los Angeles store. This process may produce a marvelous and novel answer, but it is certainly not one growing out of, or part of, a culture of a place. It now seems that buildings should not be universally alike in style, and certainly it makes no sense as a response to energy conservation that environments in North America built at 42 degrees latitude look the same as those built at 35 degrees and even 20 degrees latitude.

The architect is going to be wrestling with four conditions in the '80s: A more sophisticated public; a building dollar stretched to cover more equipment and compulsory energy management; shifting economic power bases and economic turbulence, plus the effects of unassimilated knowledge gained from the sciences.

Sophisticated public: Our management consultants are telling us that corporate clients are becoming more sophisticated in demanding design and technical prowess. Iowa has passed a recertification law, the AIA is debating compulsory retrofitting for membership and a few states have passed environmental education laws. All this suggests more knowledgeable clients, requiring us to be better prepared. There is a tendency on the part of clients to see us as specialists in one kind of building design or another. What we had better be sure of is that we do not allow ourselves to be specialized into corners where our generalist contributions are no longer used. A specialist is vulnerable to elimination with change, whereas a generalist is not.

A stretched building dollar: I hope our energy problem will force us away from short-term shoddy materials and craftsmanship, but I am pessimistic. The allocation of building resources is going to go more and more to equipment as we continue to hook our environments up electronically and reduce energy demand. This means that funds allocated to serving traditional values in architecture are going to be even scarcer than now.

Shifting economy: With multiple air transport entry points into the U.S., the economic hegemonies of port cities created by ocean transport will give way to more economic power bases, which will come to be reflected in more pluralism in architectural ideas. Houston, closer to Latin America in orientation and latitude, ought to come up with very different architectural answers than New York City. The '80s will further exaggerate the differences between conservator societies in older parts of the country and growing communities in younger places. Economic turbulence has been the condition under which new design happened, so we may look to some of our young frontiers for fresh design ideas. This could mean that Alaska, Australia and South America may sneak up on us. It is already. It is hoped that the sun belt will flower.

By James Pratt, FAIA

Recently, a friend quoted her daughter as saying, "I'm tired of being a child of the '60s!" The daughter has been doing those wonderful, alternative, sociological, artistic, small-scale farm projects that children of the '60s believed in, and doing them exceedingly well. But it's a struggle, and she's lonely.

Did we not listen? Or do we not have the courage to listen? The '60s generation kids grew up with a mushroom cloud hanging over their heads, and then they found that "atoms for peace" was a delusion. They indicated that farming was a way toward living with nature instead of conquering it—but such a turnabout has to reverse the flywheel of history.

Is this the reason architects have been so slow to catch on? The modern movement began with clarity of purpose and openness to form, but gradually changed to fuzziness of purpose and stylism of form. In the meantime, there's been a groundswell of small-scale farming; the poor, the elderly, city dwellers and suburbanites are growing tomatoes in their backyards, on roofs and balconies. What does that have to do with architecture? What we had better be sure of is that we create the differences between conservator societies in older parts of the country and growing communities in younger places. Economic turbulence has been the condition under which new design happened, so we may look to some of our young frontiers for fresh design ideas. This could mean that Alaska, Australia and South America may sneak up on us. It is already. It is hoped that the sun belt will flower.

On the other hand, in depressed areas, a different kind of design opportunity may arise: In needy times, suddenly people depend on each other; expressions of community may come back as happened in the CCC days of the depression (whereas boom areas will have to depend on each other, and laissez-faire in their resulting individualistic communities). We certainly need a new emphasis on the concept of visual design to overcome what Rene Dubas calls our emotional and physical junk heaps of cities.

Effects of new knowledge: I am pessimistic about our knowledge of environment and interest in new information generated by the sciences.

"We must not allow ourselves to be specialized into corners where our generalist contributions are not used."

We architects suddenly have a lot to learn from ethnologists, urban anthropologists and psychologists: how we perceive things, how real people use space, how we live with each other and how we live in nature. The challenge to the generalists among us is to stay up with new knowledge, to know the net impact of its effects, so that we can cover more bases when we synthesize functions into form. We are not trained or psychologically ready to apply in a sophisticated way the nuances of sociology or biology to the environments we make. We have not learned that many of our creations—less dramatic failures than Pruitt-Igoe—do not serve specific humans; we continue to make the same mistakes in shallow programming for abstract prototypes.

Despite the negative harbingers, I am intrigued and heartened with the challenge to create unique environments—each with a sense of place tied strongly to its specific regional and urban context.
A decade ago, the facts were known and were published in a report of the AIA energy committee: Energy conservation through building design can save as much energy by 1990 as will then be available from either our domestic oil or gas reserves or from our nuclear plants now on line or projected for construction.

Ten years later, the facts have made this message all the more urgent: Even at an annual fuel cost rise of 15 percent (low by today's trends but unheard of a decade ago), the operating costs for buildings will double every five years. As a result, many buildings being designed and built today will be unaffordable to operate by the end of the century. Because energy costs are also the driving force behind general inflation, we are in a double bind: There is insufficient capital available to invest in energy saving improvements for existing buildings or to allow innovative energy techniques to be incorporated into new designs, even if justified by life cycle costing.

While these facts pose desperate dilemmas, they also offer a unique opportunity.

Through energy design, architects can reassess their traditional concerns for humane habitat, revitalized cities and a balance between the natural and the built environment. Energy conservation as a process of restoration is the basis on which to view any project, for an old or new building: restoration both of the site as part of a community environment whose interconnections have been too long ignored and of the design act itself as a creative contribution rather than a destructive burden to the earth's ecological balance.

The architectural drawing style that is currently in vogue emphasizes the dreamlike quality of the idea, with artifacts isolated from their context, and with coloring and cloud images that recall the style of surrealistic painting seven decades ago. Rather than connecting with reality, this is a vision that separates us from it. Less publicized are the architectural projects through which many designers have increased their confidence to connect with the reality of building and energy. Buildings are being designed to demonstrate that good energy design does not have to cost more than conventional construction, that buildings can be operated with one-fifth or less the amount of nonrenewable energy and can be more beautiful because the design result is in balance with the specific climatic context and solar geometry of the building and orientation.

Currently, these ideas are not generally acknowledged by the architectural profession. Let us hope that by the end of this decade innumerable examples will have shown them to be irrefutable.

Charles H. Brewer Jr., AIA

The lessons we can learn from history which are applicable to the profession of architecture seem clearly to indicate new requirements for public responsibility and should leave the neomodernists leapfrogging toward new territory.

History reminds us that all styles of architecture have three stages of development: the early period, the high period and, finally, the flambant, which no longer responds to the needs of society.

One only has to look at the present state of published architecture to see signals of decay.

Michael Thompson's article, "The Architect's Dilemma," in Design, Methods & Theories, applied the catastrophe theory to the architectural profession and found public disinclination to be an indication of a "cusp" position on the catastrophic curve. His recommendation was, "Stop trying to get the public to join you and instead join them."

Process, which allows for change and growth, as opposed to methodology, can provide the way to get back in touch with the needs of society and to understand form as a prelude to design. The credibility of the architect in the future will be measured by society's willingness to perceive his work as an answer with a public concern, regardless of financial sponsor.

This process of architecture defers the conceptual effort until information is acquired which is very difficult for a designer to comprehend. Consequently, few are inventors, usually many, many more are implementers, once the way has been made clear, and few stay around for the last hurrah.

We need now inventors to again start the process; to relate task to form and form to design. We need architects who recognize the power of all facets of our cultural condition to provoke or determine its form, architects who understand that to design even a simple bus shelter we need to know where the bus is coming from and whom it serves.

In order that architecture might again become a public art, the process of design must be truly inclusive and transdisciplinary, weighing in the balance of decision the traditional physical generators of shape with those that clearly describe what needs to be shaped. Architects now in the last stage of the historic cycle, becoming evermore personal in their design, see this not as an opportunity for discovery of new architectural ideas but as anathema, an expression of confusion, a lack of ability to know "what is right"—long a characteristic of effects with behavior and bravura of the artist. For the public user, however, this may be viewed as an opportunity for participation.

By Marvin E. Goody, FAIA

Architecture has always been influenced by a variety of determinants—from local climate to available resources, from social patterns to client preferences. The architect has been called on to be the arbiter of these often conflicting forces and very often expected to evaluate and resolve them almost intuitively.

With the emergence of the institutional and governmental client, this public view of how the architect works has been changing. In the 1980s we face a welter of legislation and officially regulated criteria, strict zoning ordinances, energy budgets, preservation standards, sequential design review procedures, etc., and in most cases a multiheaded client. Community groups and/or ultimate users, funding agencies, local authorities have all become members of the client-team in the government-sponsored project. Private institutions (if not relying on government funds) have also come to recognize the many constituencies their projects serve and have learned to give representation to all on their client-team.

The architect of the '80s will have to deal creatively with the complicated and sometimes conflicting criteria that often result from the complex client. Increasingly, the form and character of the built environment is being dictated by decisions made outside the design office. If the architect, therefore, is to remain a creative force in shaping the building of the future, she/he must play roles other than that of the traditional designer.

Those architects who will write the legislation, design zoning ordinances, conduct design reviews and act as client for major institutions and agencies will have a profound effect on the design quality of the buildings and neighborhoods of the '80s. This new emerging role will be extremely demanding and will require professionals of the highest creativity and integrity.

For those architects who continue in the design office, I see a new design dialogue (between designer and client) born of the more realistic criteria set forth by the "client architect" and leading to design solutions of great beauty.
The 1980 AIA Honor Awards

The Institute's highest design honor this year went to 13 projects out of 412 entered. Seven are new buildings and six old ones put to extended use. The two categories were judged by separate juries.

Each of the new buildings is of a different type. There is a factory, a church, housing for the elderly, a laboratory, an office building, a telephone switching center and a hospital (photo above). This was not intentional, however, according to Frank Tomsick, FAIA, chairman of the jury for new work. The buildings were not judged in categories and "these were the only buildings the jury could agree on."

The winners tilt toward slick and high-tech, but two "recall historic colonial form," in Tomsick's words. Nevertheless, he said, "the same quality of design was represented" in all of the winners.

Siting and "the idea that a project should give something back to its community and its setting" were major considera-
tions in the minds of the jury, Tomsick said, as was energy consciousness. “Most of the winners were designed by firms located near the projects,” he noted. “All are responsive to community needs.”

Other members of the jury for new work were Bruce J. Graham, FAIA, Chicago; John Graves, AIA associate member, Berkeley, Calif.; Jane Hastings, FAIA, Seattle; Thomas H. Hodne, AIA, Minneapolis; David V. Maudlin, architectural student, Miami University, Oxford, Ohio, and Donald L. Stull, AIA, Boston.

The extended use jury, according to chairman James L. Nagle, AIA, of Chicago, was disappointed in the quantity of submissions, given the amount of activity in this field around the country. It felt that one reason might be confusion among architects about whether the extended use category covered “restoration, renovation, adaptive reuse, reconstruction, remodeling, recycling,” or all of the above. It does indeed cover all.

However, the jury felt that the quality of submissions was high. Fully half survived the jury’s first review for further consideration. The projects were weighed on the bases of “both idea and result,” Nagle said. “Was the concept sound and how well was it done?”

“The virtue of restraint in restoring existing structures often was set against the architect’s new design approach,” he noted in his comments.

Other members of the extended use jury were Frances Halsband, AIA, New York City; Jerry Hahn, AIA associate member, Palmer, Alaska; Joseph C. Mancuso, architectural student, Princeton University; Herbert Newman, AIA, New Haven, Conn.; F. Blair Reeves, FAIA, Gainesville, Fla., and Sally Woodbridge, preservationist and architectural historian, Berkeley, Calif. Eleven of the 13 winners are shown on the following pages. The other two are on pages 156 and 169, respectively.

Mary E. Osman

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A Hospital Achieves Rare Levels of Design and Amenity

Hospitals are among the building types most unlikely to produce good design. Their technical and program requirements are complex and sacred: When life is at stake, no liberties can be taken for the sake of order or appearance. In other words, form really has to follow function, and we all know how limiting that can be. A handsome hospital is therefore an especially admirable achievement, and a hospital that is also bright and jolly, as in the present case, is even more rare.
Part of a giant medical center near downtown Detroit, the building is in three parts: the Wayne State University Health Care Institute, an eight-floor wing for teaching and for outpatient clinics; the Detroit Receiving Hospital, a five-floor emergency hospital including a prisoner care unit, an adult burn unit, a coronary care unit and other facilities, and the Detroit Medical Center Concourse, an underground tunnel that ties the new building to several older parts of the medical center. As a further complication, the architects are a collaboration of three firms: William Kessler & Associates, Inc.; the Zeidler Partnership, Ltd., and Giffels Associates, Inc.

The architects have devised a single cruciform building element that works as a basis for all the new construction, and, so far as one can tell at this stage (the clinic wing and tunnel have been in use for a year; the outpatient wing is not yet fully in use), it will work very well. At the joints between arms of the crosses are shafts of mechanical services sheathed, where they are visible on the exterior, in red-orange porcelain panels. Sheathed in bright yellow panels are half vaults that cover ground floor offices and administration areas and—a particularly pleasant room—the reading area of a medical library.

Where the arms of the crosses touch, they form square light wells, each of which is to house sculpture. One tall well already holds a series of brightly colored dacron ribbons designed by Anne Healy and assembled by sailmakers from Newport, R.I., and another holds a composition of balls on metal rods by Joseph Kinnebrew. These are only part of an ambitious privately supported art program that adds immeasurably to the building's...
Visual enrichments and a science-fiction tube.

character; included are graphics by Calder, Matta, Karel Appel, Pierre Alechinsky, Robert Indiana and others.

Also welcome is the fact that a series of concessions—a delicatessen, a branch bank, an optometrist, a travel agency, etc.—is given room on the ground floor to counteract the usual institutional character of a hospital. Bright colors throughout—in seating, in elevators cabs, in niches and cabinetwork covered in plastic laminate—also contribute to this effect.

Such are the uses of adversity (in the right hands) that the complex's most delightful space is its underground tunnel. For most of its length an exemplary science fiction metal tube, it is
brightened at its intersections by great mirrored periscopes that punctuate the ground above with concrete wedges and that provide the tunnel with unexpected views of the landscape above it.

Although, in its exterior skin of aluminum panels with rounded corners, the building owes something to Richard Meier's Bronx Development Center, the Detroit complex has a powerful repetitive order very much its own, a bold and generally welcome use of color and, for a hospital catering to largely indigent patients, a heartening commitment to quality and pleasure.

Within one of the yellow-sheathed tubes, visible in photo on opposite page, is the skylighted reading room of the medical library, above. Right, Anne Healy sculpture of dacron strips brightens an interior courtyard.
'Calm Excellence' in a Retirement Housing Complex

"If you have to go to a retirement home, this is the place to go," said a jury member about Heaton Court, a housing complex for the elderly in Stockbridge, Mass. Designed by Goody, Clancy & Associates, Inc., of Boston, Heaton Court was praised by the jury for its "delightfully planned courtyard, careful detailing of traditional forms and materials, simple shapes rich in texture" and its subtle integration into the landscape. Located on a site previously occupied by a rambling resort hotel, this low-income, government-subsidized housing for the elderly fits neatly into its small town neighborhood, evoking the character of the once-enjoyed leisure hotel whose remembered amenities include such things as long porches and rocking chairs.

The program called for 50 one-bedroom units, spaces for congregate living and parking facilities. The units and communal facilities are clustered around a courtyard that is linked by continuous porches and galleries, providing covered passages and smooth walking surfaces for its dwellers. All entries, living rooms and dining areas face the porches on the active court side, giving everyone—even the housebound—a view of this lively area. Bedrooms and baths are on the quieter side, away from the court.

Paths wind uphill from the town center, letting the residents stroll easily and then sit on benches to rest and enjoy the plantings. Parking is provided on the uphill side on a level with the second floor. At this level, bridges connect the porches and galleries, permitting the three-story buildings on the north side to have units that are only one flight up or down. The one-story buildings on the south allow the sun to penetrate the courtyard and open spectacular views of the Berkshire Mountains.

All community facilities are barrier-free, and persons in units for the handicapped feel no separation from the others, although they have proximity to the parking area—and better views. All the units have at least two exposures, creating cross ventilation and eliminating the need for airconditioning. The buildings blend into the landscape, helped by the cedar clapboard siding that is stained in earth tones. The amenities, said the jury, include "raised planters (easy to reach, but not too many to maintain), a vegetable garden (but not a farm) and strolling park-like walks (not just circulation paths)." All combine and add to the "low-key, calm excellence" of Heaton Court.

In form, the sprightly, angular buildings clearly express their New England ancestry. The muted clapboard walls are crisply outlined in white, accentuating the angles.
Traditional Forms in a Suburban Church Complex

The five gabled-roof buildings of varying volume of the Colonial Church of Edina, Minn., resemble a New England town square. Designed by Hammel Green & Abrahamson, Inc., of St. Paul, Minn., to house a sanctuary, seminar rooms, lounges, offices and a fellowship hall for a nondenominational congregation, the simple forms, says the architect, are "symbolic of a Puritan religious heritage." The congregation, which had outgrown its existing facility, a neo-Georgian structure, wanted a variety of multiuse spaces appropriate for its programs that reach beyond the church into the community, and "colonial" buildings expressive of an architectural and religious past. "The continuity of gable forms, white trim and rich gray mass create the harmony of a perfect village square," the jury said. "Traditional forms and materials are clearly, simply and boldly used." Although the design recalls a long-ago past, the complex "responds to modern energy needs and modern user requirements."

Located on a swampy site within a protected watershed district, previously ignored by developers because the area was considered too difficult for construction, the complex is conscientious in its preservation of the neighboring wilderness—an attitude viewed by the architect as a "moral as well as a legal necessity."

The buildings, which rest on grade beams and piles, are linked by a canopied colonnade that becomes an enclosed "main street." The street opens onto a central outdoor court whose focus is a bell tower.

Materials and forms, appropriate for the congregation's religious and historic traditions, are highly functional for a region where there is severe climate, often with heavy snows. The many operable, oversized, double-hung windows reduce the scale of the structures, fitting the complex into its residential neighborhood. They are also energy conserving, admitting natural light and ventilating the interiors. Shutters are used to block solar gain. The exteriors are bleached redwood clapboard siding. On the interiors, the exposed posts, beams and trusses give a feeling of warmth and strength. The jury called the design "subtle" in its response to user needs.

A New England past is recalled by the simple forms, sloped roofs and wooden construction—as appropriate and functional today as long ago. Multiuse spaces, designed to serve contemporary life and aspirations, are united, yet distinct, allowing many different activities to take place at the same time. The identifying feature of the landscape is the bell tower (bell and spire are planned for future donations). The interior of the sanctuary in its simplicity (across page) is also reminiscent of a Puritan religious heritage.
Strong Forms and Colors
And a Central Shaft of Light

The word “factory” usually conjures up thoughts of sweatshops — unattractive places where the environment in which workers spend a good portion of their lives is disregarded. But the multi-use building of Qume Corporation in San Jose, Calif., provides visual order, color, natural light and plantings that are enjoyed by everyone, whether the workplace is in an office or at the assembly line. The building, designed by Hawley & Peterson of Palo Alto, Calif., focuses on a central arcade, with a landscaped atrium lit by a skylight of insulated, translucent panels. Color is provided — and movement ordered — by the exposed and brilliantly painted structural and mechanical systems. No cross bracing nor shear walls are required within the rigid steel frame of the structural system, allowing for interior flexibility. No matter where one turns, said a jury member who visited the building, one sees “strong forms,” accented by “strong color.” “Crude factory detailing,” the jury said, is totally overcome by the use of light, color and plantings.

There are three major divisions of space: 70,000 square feet of office space on two floors; 100,000 square feet in assembly line space, and 55,000 square feet in high bay storage. The two major perpendicular axes of circulation extend from outside to inside, helping make the building and site inseparable. The primary axis, which runs the length of the structure, concludes in an outdoor dining room; the secondary axis, running north and south, links an employee parking area with the main workplace inside. The building answers the client’s request that it “reflect a corporate image,” have a “strong sense of organization” and that the thousand or more employees have a pleasant working environment.

Clean-Cut Suburban Office
Building Girdled in 'Solar Belts'

Designed by Wolf Associates of Charlotte, N.C., as a speculative office building, this crisp, clean-cut steel frame structure, sited on what was once farmland in Charlotte, is now the offices for the Equitable Life Assurance Society's Southern Service Center. The building was designed, constructed and occupied in the surprisingly short time of seven months—and brought in at low cost. The architect says that the "severity of the time and budget restraints required an absolute commitment to the consistent application of building systems and modularity. . . . Each system was scrutinized for economy, availability, speed of construction and its responsiveness to simultaneous construction with other systems."

Program requirements were few: 65,000 square feet of open office space on two levels, an extensive communications network to accommodate a myriad of office machines, two main entrances and a parking area for 350 automobiles. The relationship of the building to its site (no other buildings were there when it was constructed) and the "abstractness" of requirements, the architect says, led to the building's reflection of itself in the "basically scaleless and totally repetitive character of the taut curtain wall."

The curtain wall is composed of alternating bands of clear glass and highly polished aluminum. Two bands of continuous clear glass at each floor allow views from the interior to the outside. The jury called the "slick, brilliant use of glass . . . simple, but innovative."

Even though virtually all the exterior is of single pane glass, the building is energy efficient. What are called "solar belts" are formed by highly insulated pockets behind the glass and aluminum, encircling the building at roof, second level and ground. In winter, solar energy entering the building through the outer skin on the south and west is recirculated through the solar belts to north and east exposures; in summer, conditioned air from the interior spaces is piped through the solar belts before being exhausted from the building. The architect says that projected energy consumption data indicate a maximum four-year payback at current energy rates.

The building demonstrates, the jury said, that "complicated forms and shapes are not necessary to achieve good design; the detailing and materials are as significant to the overall design as is the concept."

Sun warmed air is circulated through 'solar belts' to cold winter side of building.

Reclaimed cool air from building's interior is circulated through 'solar belts' to hot summer side. Sun warmed hot air is exhausted from 'solar belts.'
Laboratory Designed
For Maximum Flexibility

Flexibility is the name of the game in the design of Monsanto’s Environmental Health Laboratory, located on 3.9 acres in a St. Louis redevelopment area. Designed by Holabird & Root of Chicago (see Mid-May ’79, p. 126), the complete toxicology facility incorporates animal testing areas, incubation laboratories, computer facilities, offices and related spaces. It is flexible in its provision for varied functions involving complex mechanical and electrical systems and in its ability to provide for future independent expansion of either laboratory or mechanical space portions, permitted by the location of the mechanical room at the side of the laboratory facility in a separate sloping element. Built onto this lean-to structure is a solar collector which, among other things, provides hot water to clean animal rooms and cages.

Flexibility is provided as well by the exterior modular curtain wall of insulated metal panels and insulated glass—easy to install and expand. The glass panels are positioned to let natural light filter into corridor spaces. Interstitial spaces in the two-level building, created by an eight-foot-deep truss, also contribute to flexibility since they allow access to all mechanical, electrical and plumbing systems; when changes are necessary, there will be no interference with spaces either above or below.

The steel trusses are left exposed and painted a deep plum color, and the color differentiations of the mechanical and electrical systems, for safety reasons, also help to brighten the environment. The building was designed with special attention to fitting its surroundings. “Very appropriately, the cooling towers, transformers and the multiple support systems are all housed under the solar collector roof so that the total building and site have a clean urban appearance,” the jury said. In contrast with the exposed ducts, trusses and strong interior colors are the building’s low-scale, high-style exterior forms and materials, the jury added. The facility, in brief, is a “highly refined solution to a very high-tech, complicated program.”

Proud Courts Building Becomes an Arts Center

The opening of Landmark Center in St. Paul, Minn., marked a decade of effort to save the old federal courts building by converting it into a performing and fine arts center and providing office and program space for the St. Paul Council of Arts and Sciences and its member organizations. Designed and constructed by the U.S. Treasury between 1892 and 1902 under the architectural supervision of Willoughby J. Edbrooke and James Knox Taylor, the eclectic composition of French Renaissance and Romanesque elements marked an era of commanding architecture, making the structure one of the finest federal buildings of its time. Occupying a significant place in the urban landscape, the restored building, designed by Perry, Dean, Stahl & Rogers, Inc., of Boston and associated architect Windsor/Farcy Architects, Inc., of St. Paul, is now a key element in the revitalization of the central business district.

Central to the restoration design is the skylighted courtyard that opens vertically for four stories to an open trellised ceiling, becoming a dramatic interior park surrounded by shops, exhibition cafe and sitting areas. Glass walls in two former attic floors create an enclosed greenhouse, providing an interior garden for the existing fifth floor and newly created space on the sixth floor. Four handsome courtrooms and other spaces on the second, third and fourth floors have been renovated for office space for cultural agencies and to provide facilities for meetings and other community activities. On the second floor is renovated space for art exhibitions. An audiovisual center in the basement, directly below the cortile, is currently under construction, and drawings are being prepared for other uses of space on the fifth and sixth floors. The jury said that it was "concerned" that all the spaces are not yet complete, but found the completed portions so satisfactory that it considered the project worthy of an honor award, calling Landmark Center the "best example of adaptive use."
that was seen in this year's honor award submissions.

Totally new plumbing, HVAC and electrical systems were installed without significantly altering the original design, and the building was made to conform with fire safety standards. Energy efficiency was a major concern in the design process, with the renovation incorporating such features as thermo-glazed and operable windows, insulation of the entire roof area, a power ventilation system at the top of the cortile to assist cooling systems, the use of high efficiency lighting sources and a computer controlled management system for HVAC equipment. The massive walls of the original structure are themselves energy efficient.

Manhattan Town House
Anchored by an Atrium

Not many single-family town houses remain on New York City's Park Avenue. This one, wedged between apartment blocks, has been radically reconstructed in a design by Robert A. M. Stern and John S. Hagmann. Its facade, while unmistakably new, attempts references to the mildly classical design of its neighbors by its three-part vertical division (recalling base, shaft and capital or the stacked floors of a Renaissance palazzo) and by the suggestions of pilasters in its middle section.

Inside, there is considerably less restraint and fewer references to the building's past. Both strong primary colors and more muted tints are used, and there is a virtuoso display of freely curved wall elements. Level changes add further complexities not typical of traditional town houses and link spaces from the entrance hall to the master bedroom suite at the top of the house in what Stern calls a "promenade architecturale." The complex south wall of the building thickens to include fireplace and storage elements and is sliced, punctured and layered in an intentionally ambiguous manner. And, as an architectural anchor around which these varied effects disport themselves, there is a four-floor-high atrium bringing a shaft of light and air through all the main levels. In the rear, a circular stair provides another point of orientation, and an elevator provides further vertical circulation.

Stern, of course, is an ardent proselytizer for what he calls "postmodernism," and he has identified three characteristics of that alleged style—"contextualism" and "allusionism," both of which are detectable on the town house's facade, and "ornamentalism," which is apparent on the interior. The awards jury said that the "facade deals with the language of its neighbors in a unique way," and that "the interior is a bold and personal statement emphasizing form, light, texture, color and circulation."

Restoring Romanticism
To a Los Angeles Hotel

"Modern elegance" combined with "original romanticism" has made a Los Angeles landmark a "much more rewarding environment than it ever was before," said the jury about the restoration of the Biltmore Hotel, initially designed in 1923 by Schultze & Weaver. The restoration architect, Ridgway Ltd. of El Toro, Calif., succeeded by giving the common spaces an "urbane character," while retaining all the elements of architectural and historical value, providing guest rooms that reflect "individual attention and high design," transforming "mundane hotel rooms into a 'luxury liner'" and completely modernizing the physical plant. Major new work on mechanical systems, along with extensive repairs to existing systems, has resulted in a reduction of more than 33 percent in energy consumption.

The old hotel had fallen on hard times, due to negligence, and was rapidly declining as feasible investment property. As a result of building exterior restoration; modernization of 1,000 guest rooms and suites; provision of a major restaurant, 75,000 square feet of banquet facilities and 100,000 square feet of commercial office space, and extensive modifications of kitchen and other areas, the Biltmore is now able to compete. But its rebirth has done much more. As an example for other restoration projects nearby, it has been instrumental in redirecting the growth patterns of an established downtown business district, proving again the economic viability of historic preservation.

Restoration of the exterior (left) included tuck pointing, acid washing of masonry, epoxy injection on terra cotta and repair of wooden double-hung sash. On the interior (below) cast plaster was used for the repair of ornamentation.
Bringing Back the Entire Core Of a New England Seaport

The Market Square historic district of Newburyport, Mass., was once the site of that squalor which urban renewal projects of the 1960s sought to strip away, replacing it too often with buildings unsympathetic to an architectural past of intimacy and beauty. Most of the three-story federal structures, built in 1811 as an architectural entity after a devastating fire, were scheduled for the bulldozer, but concerned citizens rallied round and engaged the Boston architectural firm of Anderson Notter Finegold Inc. to draw up a plan for the historic district and the entire core area of the town.

The restoration of a two-block area, selected for its proximity to the town's main square and the juxtaposition with other federal structures, required the cooperative efforts of local, state and federal agencies, as well as of consultants and private developers. Market Square now plays a role in making Newburyport a worthy example of early 19th century American seaports. It was called by the jury “one of the few and best examples of district restoration” in the nation. On the basis of the successful restoration project, other New England towns are now re-evaluating the long-neglected structures in their centers.

The design team placed an emphasis upon intimacy of scale and architectural integrity. Making use of continuous brick facades to preserve the buildings' arrangement, the design team worked out a strategy whereby standards were developed for all exteriors, including sign control, color analysis and detailing of such public spaces as exterior stairways and walkways. A design review process was developed whereby each developer and architect was required to comply with the established standards, with inspections made during the construction phase.

Brick paving in a herringbone pattern is used throughout the area, establishing a visual continuity. Power lines are underground, and the general light is provided by period lamps and other fixtures. Included in the basic elements of the design are granite steps and bollards and wooden benches and trash receptacles. A fountain, formed from granite blocks salvaged from demolished wharf structures, adds an additional touch of beauty. The project, the jury said, overcomes any tendency to be "precious" because of the architect's attention to detail.

Recreating the Look—
And the Spirit—of 1876

The restoration of the Smithsonian Institution's Arts and Industries building on the mall in Washington was a rare combination of historical precision and the evocation of the spirit of a time and its architecture.

Architect Hugh Newell Jacobsen, FAIA, (he shares design credits with the Smithsonian's office of planning and engineering services, engineering and design branch; James M. Murphy, chief, and William Thomas, staff architect) spent countless hours determining the original coloration and detailing of the thoroughly deteriorated 1881 building. The original drawings and specifications were long since gone, so Jacobsen combed the Smithsonian archives for photographs of the building as it was. He arranged them in chronological order and examined them with the aid of a magnifying glass and jeweler's eyepiece to establish such details as the tile pattern of the central rotunda floor. He prowled the building, chipping away generations of paint in search of the original colors, supplementing his findings with research into the colors in common use at the time.

The occasion for the restoration was the bicentennial. The Arts and Industries building (then called the national museum) was constructed as the first place to house objects from the 1876 centennial exhibition in Philadelphia. When the bicentennial approached, the Smithsonian decided to assemble these objects and many more into a major exhibit in the Arts and Industries building's four soaring galleries, arranged in cruciform configuration around the rotunda. A marvelous collection of objects it is: massive machinery, axes gleaming against velvet, locomotives and ship models. The exhibits and the building—fresh colors gleaming, restored fountain bubbling, festooned with banners and bunting—combine to vividly recreate the exuberance of Victorian America.

For a time, Arts & Industries gave temporary shelter to the exhibits being assembled for the Air & Space Museum and rockets flanked its spires. Below, the refurbished mall-facing facade. Exterior work was minimal but the interior (right, one of the four exhibit halls) was transformed into an environment from another century.
In the contest for profits and prestige on Chicago's "Magnificent Mile," everyone—investors, tenants, architects, shoppers, tourists—recognizes this building as a winner.

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74 floors, three million square feet. Cited as the best of the new high-rise, multi-use buildings, it combines four parking levels, 600,000 square feet of shopping and restaurants, two city-block size office floors, five theaters, 260 condominium units—and the 450-room Ritz-Carlton Hotel.

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“We’ve simply had no problems with our domestic water system,” says chief engineer John Bailey. At Water Tower Place as in other pace-setting buildings, steel pipe outclasses the competition—and goes the distance.

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Plumbing Contractor: Thomas H. Litvin Company, Chicago

Circle 82 on information card
News Summary from page 51

M. Costle, administrator of the Environmental Protection Agency, recently told a New York Times writer, "Today every schoolchild is taught ecology. Environmental protection is becoming a permanent part of our political value system."

Recent reports on environmental matters suggest some reasons for optimism. For example, the President's Council on Environmental Quality in its last annual report said that the quality of the environment has at last been embedded in the nation's consciousness, and that there is increasing attention given to the precept that no major project should be undertaken without first considering its impact upon the ecosystem.

Over the decade, 25 major metropolitan areas had a sharp decline in the number of "unhealthy" and "very unhealthy" days, the council reported, although in 1977 (the last year for which complete data are available), Los Angeles and New York City had "unhealthy" air more than two out of every three days.

The Environmental Protection Agency said in a "state of the environment" report recently that sulphur dioxide is down 17 percent since 1972; dirt and smoke are down 8 percent, and carbon monoxide is going down at a rate of 7 percent a year. "Overall, the nation's air quality is improving." EPA also reported that ocean dumping dropped 24 percent between 1975 and 1978. All dumping of harmful municipal sewage sludge will be banned by federal law by the end of 1981.

The Council on Environmental Quality's report stresses the matter of water quality, warning that the nation "is still a great distance from the goal of restoring and maintaining the chemical, physical and biological integrity of the nation's water." For example, the council estimates that about 80 percent of the nation's lakes are polluted.

By the end of last September, EPA had made grants of $24.2 billion to cover the federal share of 17,000 municipal wastewater treatment projects. Today, 11,000 projects, representing $22.1 billion, are in progress. EPA points with pride to such achievements as the return of the Atlantic salmon on the Penobscot River in Maine, waste recycling in Hawaiian sugar mills and the resurgence of aquatic life in the Savannah River.

It's the matter of "what didn't exist" that continues to worry ecologists. For example, EPA's administrator Costle recently cited a study that showed 700 chemicals in Cincinnati's drinking water, "about 90 percent of which didn't even exist 20 years ago." In a program that opened officially on July 1, 1979, EPA began to review new chemical substances before they are manufactured to evaluate any risks to human health and the environment. About 400 new chemicals are introduced into the market every year.

Another of the "unknowns" are PCBs, the chemical family that has been linked with many human ills. Last summer, food products in 19 states were reported contaminated by an incidence in Montana. As a result, the Department of Agriculture in April it would propose a regulation intended to eliminate PCBs from old equipment in food processing plants.

There is also the problem of disposal of hazardous wastes. EPA estimates that anywhere from 1,200 to 2,000 disposal sites may pose significant risks to human health, and that only about 10 percent of hazardous wastes are disposed of in a manner to comply with regulations the agency intends to adopt.

What is required, says EPA, is a "transformation in the way that American industry handles its wastes." They turn up decades later to contaminate water and to seep into homes. EPA recently issued regulations to provide a roadmap of where waste is, where it is going and how it is disposed.

And there are pesticides. A highlight last year was action taken by EPA in a new program designed to encourage the use of a class of pesticides called biologicals. Such pesticides work on the target pests, EPA explains, by means other than poisoning. Biologicals now comprise less than 1 percent of the 35,000 pesticide products marketed in this country, but EPA is authorized to promote the use of biologicals for pest control.

Another environmental problem still to be solved is that of acid rain, which has increased 50-fold over the past 25 years in Eastern U.S.

As EPA notes, "Hard-won gains are always subject to unexpected setbacks. The unresolved problems are many. And the new ones are constantly being uncovered."

Government: A New Charter for Public Buildings Program

An entirely new legislative charter for GSA's public buildings program was introduced in December by Senator Daniel Patrick Moynihan (D.-N.Y.). It called for the use of limited design competitions on projects costing between $2.5 million and $25 million and said that in-house architects should accomplish 25 percent of the design work. This bill in effect replaces an earlier bill, the Architectural Quality Act of 1979 (S461), introduced by Senator Robert Stafford (R.-Vt.), which called for use of design competitions on all federal projects over $25 million.

continued on page 250
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News Summary from page 246

The Moynihan bill was recently marked up by the Senate committee on environment and public works. The modified version calls for half of all federal building projects, expected to cost $5 million or more, to use the competition method for A/E selection. The revision also calls for GSA in-house staff to perform sufficient design tasks to maintain special skills and training, with GSA being allowed to make the decision on just how many projects would be required to achieve this goal. The specific requirement for 25 percent in-house design work was dropped.

Representing the committee on federal procurement of architectural/engineering services at the Senate hearings on the Public Buildings Act of 1979 (Moynihan’s bill, S2080), AIA President-Elect R. Randall Vosbeck, FAIA, objected to competitions for every federal project within the cost range, saying that while competitions may be proper for such buildings as monuments and single-function structures, they are not appropriate for more complex buildings. Vosbeck in his testimony also objected to the 25 percent in-house requirement.

The Moynihan bill also requires that GSA submit an annual report of all building activities and a five-year plan for housing federal agencies. The bill states that within five years of the date of enactment no more than 40 percent of government offices shall be leased, and by 10 years no more than 20 percent.

Placing emphasis on new construction rather than leasing has been advocated by GSA’s administrator, Rowland Godfrey Freeman III, and his appointed commissioner of public building services, Albert R. (Mike) Marshall. (Freeman became the 11th administrator of GSA last June, succeeding Jay Solomon.) Although Freeman and Marshall both support adaptive use, they say new construction offers the best long-term benefits for the government and, in turn, the taxpayers.

In his proposed budget for fiscal year 1981, President Carter requested $101.7 million for new buildings, up from $87 million in FY ’80. The President’s budget proposal called for an overall increase of 9 percent for construction expenditures over the FY ’80 budget, but the increase would hardly keep pace with the rate of inflation.

In other federal news, Senator Charles McC. Mathias (R.-Md.) recently introduced the Service Liability Self-Insurance Act (S2512), which would “amend the Internal Revenue code to enable design professionals, architects and engineers to set up partial self-insurance funds to cover service liability. The act would allow design professionals to deduct from gross income money put into a self-insurance fund. The money paid into the fund would be deducted “as a cost of doing business, just like insurance premiums,” said Mathias.

The Council on Development Choices for the ‘80s was recently formed by the Urban Land Institute, with the financial assistance of HUD. The group of elected state and local government officials and leaders from the private development community will examine trends and conditions that affect the built environment, define public policy goal choices “that are consistent with project conditions as well as established public needs” and promote nationwide response. The council’s findings and recommendations will be presented to the President’s commission on a national agenda for the ’80s. Architects among the 35 council members are John C. Portman, FAIA, and Beverly A. Willis, FAIA.

Last summer a federal task force on design recommended that President Carter coordinate the fragmented federal design activities. Each agency now works independently with its own goals, objectives and standards, a situation the task force called “inefficient.” Furthermore, said the task force, there is no mandate...
for federal design review, no central information and education resource and lack of overall commitment to design excellence.

The task force called for a clearly defined method to monitor and coordinate design policy, a design management group within each agency, a comprehensive program for design education, design research recognized as a critical factor in the success of the federal design policy and a federal awards design program.

At the state level, 18 states have now adopted A/E procurement laws based on the so-called Brooks bill approach used in federal procurement. This approach recommends that selection be made on the basis of competence and qualifications and was adopted by the American Bar Association as the model procurement code for state and local governments in February 1979. Maryland has a competitive bidding law.

The majority of the 34 states that now have sunset laws require periodic review of their architectural registration boards, and if a board is not recreated by the state legislature, its authority will be terminated. Reviews have been conducted and the need for registration laws has been confirmed in six states, but not always without a strong lobbying effort by local architects and state AIA components, sometimes in conjunction with state engineering societies. By 1984, architectural registration laws and boards will be reviewed in 17 states (see May, p. 46). The California Council of Architects/AIA is undergoing an in-depth examination of the state's registration law; in Wisconsin the joint regulatory board of architects and engineers plans to develop its own registration examination; an AIA task force has been established to study all facets of registration, and the National Council of Architectural Registration Boards is surveying architects in its efforts to validate the NCARB examination.

Cities: Coping with The Familiar Problems as Federal Help Declines

The state of the nation's cities is decidedly mixed. The energy-related return of the middle class continues, but so do poverty, unemployment and fiscal problems of critical proportions. The only safe generalization is that the federal role in determining the cities' fate is declining.

It appears, at this writing, that Congress will cut the $2.3 billion state share of the general revenue sharing, the $250 million proposal for countercyclical fiscal assistance and the proposed new business finance programs of the Economic Development Administration. And there is discussion of slashing the community development block grant and urban development action grant programs.

And as part of the President's efforts to slice the budgets of all federal agencies, HUD has been asked to trim $88 million from the fiscal year 1980 budget and $176 million from next year's budget. HUD has recommended that the '80 budget cuts come from the community development block grant funds that have been unused. The '81 cuts recommended include a large cut in section 312 rehabilitation funds and cuts from the section 235 home ownership, section 701 comprehensive and community development block grant discretionary fund programs.

A recent survey conducted by the joint economic committee of Congress suggests that many cities are already suffering from the effects of high inflation and a decline in both local and federal revenues. The survey report suggests that cities of all sizes have become increasingly dependent on federal aid, which reached a peak in 1978. Since then, it has been declining and the cities so far have found no sufficient way to compensate for the loss.

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News Summary from page 251

With the impending federal urban programs’ budget cuts, President Carter’s pronounced urban policy may have to take a new direction. At a national urban policy conference held in October 1979, Stuart Eizenstat, director of the White House domestic policy staff, indicated that mobilizing private investment in the cities must be the primary goal of the nation’s urban policy in the ’80s. He added, “The urban policy must have a long-range focus on economic development.”

This business-city partnership was recently emphasized by HUD Secretary Moon Landrieu in a House subcommittee hearing on the agency’s fiscal year ’81 legislative program. “As we look to the future,” he said, “we must recognize that a healthy private sector is the key to an effective urban policy.” He also told the panel that the nation faces grave housing problems in the ’80s, and that low- and moderate-income people are experiencing them most severely.

Meanwhile, there have been some positive results from Carter’s urban policy. The first annual report of the urban development action grant program, which is a key element of the policy, says the 236 action grants awarded in fiscal year ’79 will result in $2.9 billion in private investment. That averages out to $5.95 in private funds for each federal dollar committed.

A decision late in 1979 by Secretary of Transportation Neil Goldschmidt puts into effect one aspect of the urban policy. Goldschmidt turned down a request of the Ohio department of transportation to build a 13.5-mile section of Interstate highway in suburban Dayton. The road would have bypassed the east end of the city’s metropolitan area. Goldschmidt said that the proposal threatened to take jobs and businesses away from the inner city.

Preservation: The Trend Gathers Force, Abetted By a Tight Economy

The number of architectural firms doing restoration, rehabilitation and adaptive use projects increased 100 percent over the past 10 years, according to a survey conducted by the AIA committee on historic resources and the Department of the Interior. This trend is likely to continue in light of high interest rates, high energy costs and high inflation rates coupled with increasing material and land costs.

Recently, the Bureau of Building Marketing Research estimated total U.S. nonresidential rehabilitation at $35.6 billion in ’80, compared with $29.7 billion in ’79 and $19.2 billion in ’74. Much of this in...continued on page 258
In Graceful Tension Structures By Helios.

The delicacy and beauty of these tensioned membrane structures is thoroughly practical. In this economical shelter for an outdoor music amphitheater, the natural beauty of the site is preserved, with only minimal disturbance for footings for structural elements. The smaller white tensioned structure at the Aspen Design Conference in Colorado is even simpler, facilitating its erection and demounting each year.

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The Senate subcommittee on parks, recreation and renewable resources, Ray K. Parker, AIA, said, "While the Institute is on record in support of the safeguarding of our natural resources, we must emphasize that these efforts must not override our commitment to the preservation of our historically and architecturally significant heritage. . . . Historic preservation is not a luxury and deserves a great deal more priority than the Administration proposal allows." He also said that "documentation" should be recognized "as a basic element of preservation."

In other testimony, Thomas B. Muths, AIA, asked the House committee on interior and insular affairs to amend the National Historic Preservation Act of 1966 to keep historic preservation programs within the Interior Department, but separate from parallel programs of recreation and natural resources. He suggested that architects and architectural historians be made decision makers.

Last year the Advisory Council on Historic Preservation amended its regulations that protect properties included in or eligible for inclusion in the National Register of Historic Places. The new regulations, which are binding on all federal agencies, simplify and speed the process of comment when new federal undertakings will affect such properties. And the secretary of the Interior Department set standards for programs under his authority that affect cultural resources listed in or eligible for the National Register of Historic Places. These standards must be used by state historic preservation officers and by the Heritage Conservation and Recreation Service to evaluate grant-assisted proposals, reuse proposals submitted by state and local governments for the transfer of federally owned surplus properties listed on the register, and to determine if a rehabilitation project is certified in accordance with the Tax Reform Act of 1976 and the Revenue Act of 1978.

The Institute: A Year With a Single Dominant Theme

Ehrman B. Mitchell Jr., FAIA, Institute president in 1979,-set as the theme of his year in office "the celebration of architecture." He said that he chose the theme because he wanted the public to focus on "architecture of consequence" and architects to be inspired "to know what it is to do better within their profession." He wanted architects and the public to come together in celebration "because they come together to build."

And the theme was picked up nation-wide as the Senate committee on parks, recreation and renewable resources, Ray K. Parker, AIA, said, "While the Institute is on record in support of the safeguarding of our natural resources, we must emphasize that these efforts must not override our commitment to the preservation of our historically and architecturally significant heritage. . . . Historic preservation is not a luxury and deserves a great deal more priority than the Administration proposal allows." He also said that "documentation" should be recognized "as a basic element of preservation."

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Massive insulation placed on exterior walls shaped a new future for this former factory. Reckson Associates overcame interesting challenges when retrofitting this one-story plant into a luxurious two-story office building. The existence of 24 ft. ceilings prompted the creation of atrium areas where plants and light make a pleasant backdrop for business. The addition of a sports deck for tenant use became another challenging feature. Penthouse suites, twin 2-story lobbies, flexible office layouts with total sound control, concealed loading and trash removal bays, offer tenants the kind of luxury only a modern concept can provide. How to wrap this premium office package in a dramatic contemporary skin was the ultimate challenge. And Dryvit was the choice.

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After: Architect: Peter Elkin, A.I.A., Syosset, N.Y.
Texas Society of Architects. Alfred C. Glassell Jr. School of Art, Houston; S. I. Morris Associates, Houston (upper right). Facilities include administrative offices, classrooms, studios for printmaking, jewelry, ceramics and sculpture and a library. The classrooms and studios radiate off the large open skylighted gallery. Glass block was used because of its heat insulating qualities, and it has a gray reflective coating. The jury commented, "a fresh use of a new material in a direct urban way."

Rick Gardner, photographer.

New campus of the University of Texas at San Antonio; Ford, Powell & Carson, San Antonio (lower right). Located on 600 acres atop a limestone escarpment on the outskirts of San Antonio, the 700,000-square-foot campus was planned for an initial enrollment of 5,000 and an anticipated enrollment of 30,000. The five academic buildings, the library and the administrative offices are organized around a central plaza, which is linked to each of the bordering superblocks by elevated pedestrian streets. Sun control devices—cable-hung wood trellises—are used extensively. Courtyards and skylighted gallerias allow natural light to penetrate through all levels of the buildings. The jury commented, "A handsome expression of building wedded to the site with a solidity of space and color being predominant." Rick Gardner, photographer.
Project: Cafeteria, Educational Testing Service, Princeton, New Jersey
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Michigan Society of Architects. Calvary Baptist Church, Detroit; Gunnar Birkerts & Associates, Birmingham (left). The simple form is a “superscale” sculpture arising from the landscaped plateau. In the upper room the congregation faces an immense, faceted mirrored wall that is designed to meet liturgical needs and to bring the congregation together visually. The exterior of the church is a yellow-orange ribbed metal skin.

Minnesota Society. Gelco Corporation international headquarters, Eden Prairie; Leonard Parker Associates, Inc., Minneapolis (below). The L-shaped building is set into the side of a knoll for energy conservation purposes and for giving all levels of the building a view of the lake and meadowlands below. The stepped-roof configuration provides terraces. Insulating reflective glass is used extensively to create a mirror of the natural setting. The jury commented, “The stepped-form and L-shaped plan minimize the impact upon the landscape and break down the large mass of the building.” Balthazar Korab, photographer.
House on the lake, Glencoe, Ill.; Booth Nagle & Hartray/Ltd., Chicago (above). The house, situated on a bluff overlooking Lake Michigan to the northeast and a ravine to the northwest, is built into a hill, which helps compensate for heat loss through large glass areas. The children's bedrooms and a large playroom are on the lower level; the upper level is a one-bedroom adult living loft space. The jury commented, "It's so technically advanced—and it's such an anachronism in terms of today's architecture. We have to see it as a terrific curatorial effort. It's so sincere; so perfectly done." Philip Turner, photographer.

Residence on a ravine site, Chicago, northern suburb; Michael Gelick Associates, Inc., Chicago (right). The building, oriented with a north/south axis, is set deep into the site to retain existing woods and maintain privacy and provide optimum views of the ravine to the south and west from the principal living spaces. The solution is a three level building block, 32 feet wide and 72 feet long, organized with two adjacent 15-foot bays.

Chicago Chapter. The Marion house, Lisle, Ill.; Stanley Tigerman & Associates, Chicago (above). The program requirements were to house a family of three on a one-half acre lot in a suburban subdivision. The house's orientation is south, overlooking a small man-made lake. The architect's solution is a "warping of the binuclear organization" of the International Style. The interior centers around a double height entrance space with a stair design after Michelangelo's Laurentian library. Howard N. Kaplan, photographer.
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Chicago Chapter. Rust-Oleum Corporation international headquarters, Vernon Hills, Ill.; C. F. Murphy Associates, Inc., Chicago (left). In order to preserve site area for landscaping, the structure is raised above the 112-car parking area. A circulation axis, with skylight, separates the office space into four flexible modular areas. Bright colors are used to accentuate the exposed mechanical ducts and to emphasize the owner's products. The walls are prefabricated, white enameled aluminum panels. "It starts off as a perfectly straight building," said one jury member, "then you walk in and you find these salamanders all over. It has a terrific sense of procession."

Olson Pavilion/Health Sciences Building, Chicago; Holabird & Root, Chicago (below). The 350,000-square-foot building contains three programs: the dental school with patient operatories, laboratories and lecture rooms; a critical care medical facility for a neighboring hospital, and a cancer research institute with labs and animal care units. The six varying floor heights are connected by four bridges and two tunnels to neighboring buildings. "It's beautifully articulated," said one jury member.
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Architects Society of Ohio. Milhoan residence, Worthington; Gene R. Milhoan, AIA, Worthington (above). The garage and studio are separate from the main house, connected by a bridged walkway. The residence is oriented for the view of the Olentangy River valley, with a rounded segment housing the two-story living room. All major spaces have full access to the sun in the winter and are shaded by trees in the summer. In the winter warm air rises through the building to heat the bedrooms on the top floor.

YMCA North Branch, Columbus; Godwin • Böhm • NBBJ, Columbus (below). The first level of the 45,000-square-foot YMCA building is bermed to conserve energy as well as to reduce the apparent scale, making it more suitable for its suburban neighborhood. The building houses a fieldhouse, 10 racketball courts, exercise rooms, classrooms, lounges and locker rooms with steam, saunas and whirlpool. An indoor swimming pool is yet to be added. ARTOG, photographer.
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Architects Society of Ohio. National Fishery Research and Development Center, Wellsboro, Pa.; Dalton • Dalton • Newport, Cleveland (above). The main spaces of the 3,200-square-meter center are the laboratory spaces and glass-enclosed central circulation spine, from which visitors can view lab work. Well water is used for cooling, and a gravity-operated fresh water system using both stream and well water provides other water. The structure is of wood post and laminated beams with rough sawn cedar siding. ARTOG, photographer.

Butterfield Senior Center, Cincinnati; Smith-Stevens, Cincinnati (below). The historic Italianate town house, which previously housed all the center’s activities, was completely restored. The architects chose passive uses for this building—lounges, library and small meeting rooms. The new building emulates the proportions, lines and polygonal bay of the historic structure and was purposely held back and kept lower to highlight the older building. More active uses are housed here—dining, dancing, arts and crafts, offices, counseling rooms. Barley-Orner-Makstaller, photographer.
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—results of a three-year weathering test in Black Canyon Stage, Arizona

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Kansas Society of Architects. Kansas State Bank and Trust Co., West Wichita; Robinson, Kuhnel & Spangenberg, Wichita (above). The design concept is based on two intersecting parallelogram forms: The lower one contains the banking spaces and the upper form provides roof covering for the building entrance plaza and the drive-up lanes. A clerestory allows natural light to enter the building where the two forms meet. The interior space consists of an open banking area with vault, storage, restrooms and conference-lounge clustered along one side. This windowless side forms a visual barrier from the drive-up lanes and parking lot and shopping center beyond. The other three walls are glass enclosed.

Northwest High School, Wichita; Schaefer & Associates, Wichita (right). The 200,000-square-foot building uses a "town square" concept, with the commons area as the main center of student activity. It serves as a dining facility, study area, gathering place and foyer area for theater use. Two "streets" extend from the commons area, providing circulation to other academic and service areas. A 750-seat theater is adjacent to the commons. The building is of light steel frame construction with masonry exterior walls. Martin Libhart, photographer.
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New York State Association of Architects. Village Manor Senior Citizen Housing, Painted Post; Schleicher-Soper, Syracuse (above). Sixty-four one- and two-bedroom apartments are housed in eight buildings clustered to create an interior green space. A community building and support facilities are located in a single-story structure joined to the housing units by interior connections and covered walkways. Each unit has a separate exterior entrance, and private balcony or patio. The jury commented, "The architect developed a clean vernacular design—warm, calm and nicely scaled for the elderly." Rothschild, photographer.

Barn house, Westchester County; Paul Segal Associates, New York City (below). The building is sited on the foundations of a barn that was destroyed by fire. It houses the caretakers/farmers, four cars, two horses and two cows. Garage and stable are on the east side of the stone retaining wall (remaining from the original barn), forming a courtyard between them. The house living area is the garage's second story. On the high side of the retaining wall the bedrooms, bathrooms and kitchen form an east-facing wing. The hay storage and greenhouse is a glass tower at one end. Structure is wood post and beam. Norman McGrath, photographer.
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New York State Association of Architects.  
Weitz residence, Quogue; Gwathmey Siegel, New York City (above). The house is located on a sloped ocean dune with view and access to the ocean to the south and view of the inland waterway to the north. There are two separate and self-contained residences with kitchenettes, bathrooms and direct outside access and extensive deck and terrace space. The wood frame house has tongue-in-groove cedar siding and interior walls of laminated sheet rock. "A clean, crisp design with excellent details and well-done Mondrian cubes," the jury commented. Norman McGrath, photographer.

Benjamin F. Feinberg Library, State University at Plattsburgh; Mitchell/Giurgola, New York City (below). The main entrance of the 133,000-square-foot library has been cut back as a square portico to reflect the front facade of the neighboring student union building. The recessed window wall on the front side emits natural light into the lower level of the building and offers a view of the outside plaza. The two upper levels contain reading areas intermixed with stacks and larger reading areas on the perimeters of two sides of the building. The only enclosed public spaces on these floors are glass-enclosed reference rooms. The north angle of the library houses the Rockwell Kent Gallery. George Cserna, photographer.
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Buffalo—Western New York Chapter, Elementary Division addition, Mount St. Joseph Academy, Buffalo; Hamilton, Houston & Lownie, Buffalo (left). The 30,000-square-foot, one-story building has classrooms on one side. Adjacent to this is a “cluster” space that functions as an extension of the classrooms. Unassigned multiuse spaces are provided for special programs. All spaces are grouped around a central research and reading area with natural light provided by continuous insulated skylights.
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Connecticut Society of Architects. Milford Jai Alai Fronton, Milford; Herbert S. Newman Associates, New Haven (top). The 150,000-square-foot facility houses a playing court, 4,800-seat spectator area, cocktail lounges, bars, restaurant, closed circuit television room, betting parlors and administrative offices. The playing court, a 180-foot column-free auditorium spanned by exposed steel trusses, is visible upon entering the building. The jury called the structure "a very big building that celebrates the values within. It should be playful, and it is." Norman McGrath, photographer.

Apartment building, Hamden; G. Stuart Gray, Hamden (above). The structure is located on what was a vacant lot in an older residential neighborhood, surrounded by one- and two-story wood frame houses. The architect designed the building to be compatible with the smaller houses. Two images were used: one seemingly old to respect the existing street motif and the other new to add modernity to the neighborhood. Two different colors of aluminum siding were used to reinforce the juxtaposition of the two forms. The jury admired the building for the constraint expressed and its respect for the neighborhood: "It shows that you needn't always make a demonstration with an architectural object. One can heed the total environment and still have a quality of design."
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New England Regional Council. Oak Grove Rapid Transit Station, Malden, Mass.; Sert, Jackson & Associates, Inc., Cambridge, Mass. (above). A lobby runs over the two surface rapid transit tracks from the parking lot (for 553 cars) to the bus/car dropoff entrance. Escalators and elevators provide access to the overhead lobby. The reinforced concrete structure has post-tensioned floor and roof beams, prestressed concrete platform and canopies, flameless heat-strengthened glass, porcelain enamel panels, brick paved floors, glazed brick interior walls and sandblasted concrete finish. The jury commented, "It would be hard to imagine a piece of architecture more expressive of the whole system it encloses." Steve Rosenthal, photographer.

Roger Williams Park Zoo, Providence, R.I.; Architects Design Group, Providence (left). By the 1970s many of the existing zoo’s facilities had reached a blighted state of disrepair. The architect was hired to completely redesign the existing zoo from a menagerie to a carefully organized series of naturalistic habitats for the animals. New elements—a children’s nature center, North American exhibits center and a wetland area—relate to the existing bird house, South American mammal house and concession stand (which are to be restored). On the children’s nature center, the jury commented, "The upper parts of these high structures, [two hipped-roof structures] described as tent-like, are handled by the architects in a very imaginative manner wholly sympathetic to the presence of children but without obtrusive cuteness." Foulds-Wilson Studio, photographer.
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Boston Society of Architects. Mission Park, Mission Hill, Boston; John Sharratt Associates, Inc. with Glaser, DeCastro & Vitols Partnership, Boston (above). The 774-unit mixed income housing was developed to stabilize the neighborhood against continuing expansion by area hospitals and universities. The project includes a 28-story highrise; a 78-unit, 8-story midrise for the elderly; two 13-story midrises, town houses and a 1,274-car, three-level underground parking garage. Each housing complex has a swimming pool, tennis and basketball courts, medical offices and a community building. The dwellings are grouped to preserve streets and a sense of neighborhood. “Its relationship to the surrounding neighborhood was judged sympathetic,” the jury said, “and the disposition of low, medium and highrise elements within the scheme seemed successful.” Steve Rosenthal, photographer.

New Jersey Society of Architects. Pegasus Restaurant, the Meadowlands, East Rutherford; Grad Partnership, Newark (below). The 27,000-square-foot existing building housing the press box and several official booths at the Meadowlands race track was expanded to 100,000 square feet. The building now houses three major dining areas surrounding a central cocktail lounge and two intimate saloons. The exterior of metal and glass was designed in the form of a skylighted porte cochère. Glass elevators carry patrons from the lower lobby to the restaurant facilities.
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*In most areas.
**Boston Society of Architects.** Dickson house, New Vernon, N.J.; Crissman & Solomon, Watertown, Mass. (above). The architect designed the house to be “reminiscent of a New England rural vernacular.” The first floor consists of an entry/music room, living, dining, screened porch, kitchen and guest bedroom with bath. On the second floor is a study open to the living room below, the master suite and one bedroom with loft. Views are to the south. An apartment is provided over the garage. The jury commented, “Exterior massing and interior spatial manipulation were apparently considered simultaneously, resulting in a striking form on the open landscape, housing dramatic, varied and clearly articulated spaces for living.” Steve Rosenthal, photographer.

Jordan Hospital, Plymouth, Mass.; Payette Associates, Inc., Boston (below). The program called for renovation of existing facilities, a new main entry and X-ray department and the addition of 56 beds plus space for an additional 40 beds and the relocation of the administration staff. The requirement that all new patient rooms be single-bed occupancy led to the “saw tooth” patient floor plan. Solar protection is provided by continuous exterior concrete walls that do not follow the outline of the clusters. Interior spaces are yellow and red, with ceilings painted with bold bright geometric forms. Nick Wheeler, photographer.
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Washington-Metropolitan Chapter. Private residence, Potomac, Md.; Hartman-Cox, Washington, D.C. (above). The 4,000-square-foot house for a family of four is positioned on a steeply sloping site. The dining, living and sitting rooms create a large living space, open yet separated by the use of terracing. The master bedroom and study are at the top of the sitting area. Atop the entry is a guest room and children’s wing. The kitchen is next to the entrance at the top level of the main living areas. A breakfast room juts out from the kitchen. Robert Lautman, photographer.

National Park Service Stable, Washington, D.C.; Hartman-Cox (right). The basic form of the stable is a simple rectangle with a shed roof that is altered to accommodate different internal functions. The building has two types of stalls, hay loft, tack room and lounge. Low-level window space was minimized because of concern over vandalism. Clerestory windows provide additional light and ventilation. Warren Cox, FAIA, photographer.

North Carolina Chapter. Flynt beach house, Figure Eight Island; Henry W. Johnston, Wilmington (right). To conserve site vegetation and gain views of the ocean and the sound, the base of the house was reduced (it contains guest parking and a septic tank). A three-story scheme was developed that placed the living areas atop two stories of bedrooms. The entire house was placed at a 45 degree angle to the beach to provide panoramic views and to orient windows to the prevailing southerly breeze. The 2,200-square-foot house is of wood frame with cedar plywood siding, trim and decking. Markatos Photography.
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Mississippi Chapter. Wellons residence, Stockbridge, Ga.; Ronald Murray, AIA, Starkville (right). The house was designed to fit a modest budget and be compact yet suggestive of a much larger and grander structure. The first floor houses a "summer" bedroom and a kitchen that is visually open to the dining room and the two-story living room. On the second floor a "winter" bedroom overlooks the living room and leads to the top floor loft that has a view of a distant lake. The house is oriented on an east-west axis on a wooded, sloping site with views to the north.

Louisiana Architects Association. David Burrus Boathouse, New Orleans; Lyons & Hudson, New Orleans (left). The architect incorporated the existing frame building into the new design. The two-story glass-enclosed entry area is the main focal point. The roof framing was changed, lending spatial variety and emphasis to the component parts of the building. Major living spaces were rearranged to capitalize on the views to the marina. Frank Lotz Miller, photographer.
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Tennessee Society of Architects. Reflection Riding Nature Center, Chattanooga; Franklin Group, Chattanooga (above). The 5,710-square-foot building serves as an environmental education facility, a meeting place for naturalist groups and an administrative center for the park. To house these functions, the building has three separate but connected spaces. The scale and character of the structure is related to the existing nearby houses, barns and log cabin. Heating and cooling are provided entirely by fly-chaser fans, natural air currents and the shade of existing trees, low air intake vents on the north walls and high exhaust vents on south walls, operable insulated windows and shutters, wood stoves, a stone fireplace and roof overhangs.

Florida Association of Architects. State of Florida Regional Service Center, City Parking Facility and Amphitheater, Jacksonville; William Morgan Architects, Jacksonville (below). The regional service center provides 200,000 square feet of office space for 900 employees. A public esplanade and amphitheater are created by stepping back each successive level of the building. This also provides an unobstructed view of the St. John's River from each floor. The three-level parking lot is interconnected by continuous ramps. Bob Braun, photographer.
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Associated Architect: Cochran, Stephenson & Donkervoort, Inc., Baltimore, MD
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Chapel of Thanks-Giving Square, Dallas, TX.

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wide, with Mitchell himself traveling to many of the local celebrations. They varied from AIA's national design conference "Open House: Chicago," which used that city as a laboratory in the illustration of design concepts, to the Florida Association of Architects/AIA organization of eight teams of architects for "talk-fests" on the exploration of design in the state, to the New Mexico Society of Architects/AIA's sponsorship of the architects-in-the-school program for the United Nations' "Year of the Child."

When Charles E. Schwing, FAIA, and other Institute officers and directors were installed in the historic Pension building in Washington, D.C., in December, he said that AIA's programs and services for his year in office would center in transforming the "challenges" of the new decade into "real opportunities for architects and society." Schwing, from Baton Rouge, La., is president of the firm that he established in 1961. He said that the Institute's 1980 budget of $9.8 million reflects a 6.6 percent increase over the 1979 original income estimate.

In 1979, the Institute supplied more than 1.5 million contracts and forms to members and nonmembers and distributed more than 10,000 books through its publications marketing division. Seventeen new and/or revised documents were completed, including those covering A/E agreements, construction management and interior design. Three new practice publications were developed on facility programming, financial management and project management. The continuing education department produced four new architectural training laboratories and 75 programs offering continuing education units. The department also published eight new SupEdGuides for associate members and intern-architects.

Part of the Institute's program is the recognition of architects and laymen and projects. Nine distinguished foreign architects will become invested as honorary fellows of AIA at the 1980 national convention, nine new honorary members will be inducted and fellowship will be conferred upon 92 members for "notable contributions" to the profession.

In other convention ceremonies, the New York City firm of Edward Larrabee Barnes Associates will be recognized for its consistent production of "distinguished architecture for at least 10 years." AIA's highest design honor will go to 13 projects in its annual honor awards program—to seven new buildings and six old ones put to extended use (see p. 212). And the coveted 25-year award for design of "enduring significance" was captured by New York City's Lever House, designed by Skidmore, Owings & Merrill.

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Although the board did not award a gold medal—its highest honor—this year, tribute will be paid in other ways to those who have aided the profession of architecture and related arts. For example, medals will be bestowed upon seven individuals and three organizations in recognition of a diversity of architectural accomplishments. The widow of Leroy M. Campbell, AIA, will receive for him the 1980 Whitney M. Young Jr. citation for "significant contributions" in meeting the profession’s responsibility on social issues, and Herbert Epstein, FAIA, will receive the Kemper award, given annually to "one AIA member who has contributed significantly to the Institute and the profession."

And to round out all the recognition for excellence, the 1980 recipient of the AIA/Association of Collegiate Schools of Architecture’s award for "outstanding contribution to the field of architectural education" is Serge Ivan Chermayeff.

**Ethics: Considering A Mandatory or Voluntary Statement of Principles**

For the past few months, a task force formed in 1979 to study the effects of legal decisions on AIA’s ethical code and the related impact upon the Institute’s documents, publications and structure has given consideration to the elimination of any potential anticompetitive elements in the code. The question for debate at the annual convention in June is whether a new statement of ethical principles, if adopted, would be mandatory and enforced or voluntarily followed.

Investigations by the task force included a tally at grassroots meetings early in the year which revealed that the membership evidently wants to "go beyond a simple revision of the existing code," but believes that further consideration should be made at the convention regarding whether any proposed new code is enforced or voluntary. Its investigations led the task force to think that among the membership there may be a "strong preference" for a mandatory and enforceable code, but that the "substantial minority in favor of a voluntary code" should be heard. A new code is expected to be presented for adoption by the board at its August meeting, taking convention debate into consideration.

The question of changes in the code arose after a ruling by Judge John F. Sirica on June 25, 1979, in the U.S. Court for the District of Columbia that AIA’s former ethical standard prohibiting "supplanting" is in violation of the Sherman Anti-Trust Act. (See Aug. ‘79, p. 21.)

The supplanting ethic had stated that AIA members should not “attempt to obtain, offer to undertake or accept a commission for which they know another legally qualified individual or firm has been selected or employed” until there is evidence that the agreement has been terminated and written notice given.

The ruling was in the form of a partial summary judgment on the first of six counts of a civil suit brought against AIA and Seymour Auerbach of Washington, D.C., by Aram Mardirosian, also of Washington. The suit arose from an ethical controversy on supplanting between the two architects about the conversion of Washington’s Union Station into a national visitors’ center, for which Auerbach was the original architect, with Mardirosian eventually replacing him.

Judge Sirica ruled that AIA’s supplanting standard “both on its face and as applied was unreasonable, . . . and unlawful restraint of trade.” In accepting Mardirosian’s contention that “censure, or suspension of membership by AIA injures an architect’s reputation, standing and ability to obtain projects and other employment,” Judge Sirica noted that “membership in AIA is a valuable asset which enhances . . . the ability to compete for and obtain architectural business.”

The lower court ruling was based largely on a 1978 Supreme Court decision that the National Society of Professional Engineers had violated antitrust laws in promulgating its ethical standard prohibiting competitive bidding. The court had ruled that the determination of whether an ethical code violated the Sherman Anti-Trust Act should be based solely upon its effect upon competition. In the wake of Judge Sirica’s interim order against AIA, NSPE’s board dropped the supplanting rule in its ethical standards.

AIA’s board in September 1979 also formally repealed the ethic on supplanting (rule 605), effective retroactively to May 1, 1979. Previously, the AIA executive committee had put an emergency “hold” on all cases and prospective complaints involving ethical standard 9 and its successor, rule 605. In December, the board suspended enforcement of any other ethical standards that might be considered anticompetitive by enforcement agencies.

In other matters related to ethics, the past year has revealed that most AIA members support the ruling of the 1978 convention that permitted a three-year experiment whereby AIA members may engage in design-build/ construction contracting. The first year report of the task force that is monitoring the experimental period said that only relatively few firms are participating as contractors, but those that are involved “are most supportive” of the concept.
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Paul Kennon, F A I A

I think the best of design today is bouncing between the inventive and innovative levels. Perhaps in the 1980s several new fundamentals will emerge.

Architects must recognize the inevitability of change and become part of the process and be responsive to evolving cultural and social issues to avoid becoming anachronistic. We must be creative, not resistant. The decade of the ’70s was a period of searching—and researching. People everywhere were looking for meaning. We had, or seemed to have, a luxury of random exploration. In architecture, we uncovered new issues, went down a few blind alleys, opted for numerous “isms” and, in general, started learning to deal with unpredictability.

For whatever reasons, we have now come upon a time in which expression and application must take precedence. The world climate has become increasingly impatient. Solutions are in demand. We will just have to fold exploration into the act of accomplishment. We have a responsibility to promote exploration of design alternatives—to develop new esthetic and symbolic expressions that architecture lacked in the 1960s and ’70s. We must begin to apply in earnest what we know and have learned in recent years.

We must for the realities of the 1980s focus on four basic issues:

• Communication of intentions and attitudes in our architecture should be made clear by balancing the realities of each project in terms of form, function, economy, time and energy.

• Uncertainty is epitomized by the fast changing times, the difficulty of decision making in an unpredictable world where indeterminacy is part of our everyday life.

• Cultural diversity is typified by emerging nations that want to industrialize while maintaining their individual cultural heritages. Self-determined environmental appropriate technology is essential to cultural identity and political independence. Each society has both a cultural and technological tradition and new cultural expression and technologies must grow out of this tradition.

• Responsiveness to emerging new issues in architecture is essential. Working toward particular and appropriate solutions enables us to be receptive to and creative about new issues that emerge in architecture. Responding to and developing new concepts for the forces of the 1980s will produce 1980s forms.

Architecture is traveling along several paths today where there are new values and new sets of architectural principles to be discovered that recognize new technology, new esthetic systems and total human needs. Universal formulas from the 1960s and ’70s won’t by themselves hold up in the face of complex, uncertain and diverse situations presenting themselves around the world today. We must identify the specifics of each new architectural problem, embrace the realities that surround it and probe new intellectual and esthetic communication in our design as we strive for a significant cultural expression.

New values, plus new concepts, plus creativity, plus new levels of criticism will be the sum of architecture in the 1980s. In Hugh Prathers’ Notes on Love and Courage, he says, “There is a time to let things happen and there is a time to make things happen!” I think the 1980s will be time for architects to make things happen.

James Stewart Polshek, F A I A

Architecture is undergoing what I profoundly hope will be no more than an interlude of popularity. The public cant of journalists and the increasing hucksterism within the profession are symptomatic of the trivialization of culture that is part of our time.

There will be a backlash to the personalization and self-aggrandizement that has been the hallmark of so much of the media blitz currently passing for architectural progress. This includes the self-serving arguments that grow up on both sides of the various formal debates regarding pre- and postmodernism. Architecture must serve and architecture must communicate, and neither responsibility requires sacrificing the art of the built work. The politics and social realities brought about by the adoption of new energy systems will not tolerate one-dimensional architects. Coping with daily life will require extraordinary feats of imagination and a degree of self discipline that we are unaccustomed to. Painterly design solutions that excuse the unwillingness of this society to allocate its financial resources to building that serves human needs will not be acceptable.

Nostalgic art historical allusions to Hadrian’s tomb or the fountains of Rome will not suffice and will not warm the toes of the future. As the professional world at large splits itself into mystics in one camp and superrealists in the other, it will become clearly if it is discussable. It will be discussable if the increasingly shrill voices of the “art for art’s sake” types and the “we must be accountable” types will quiet down long enough to allow those who do not have absolute answers to imperfect questions to assert themselves once more.

By Martin Filler

What is likely to happen and what one would like to see happen are, of course, two totally different things. What is likely to happen during the 1980s? In my opinion we will see:

1. The continuing dream of the detached single-family house. Despite skyrocketing real estate values, construction costs, mortgage and interest rates, and every other practical impediment to the rational desire for home ownership, millions of Americans will continue to think of the one-family house sitting on its own plot of land (however small) as the only really desirable housing goal. Of necessity people will continue to live in “mobile homes,” “town houses” (the current euphemism for party wall housing, even when built in the sticks) and other more economical forms of shelter. But their eyes will still be trained on the Great American,

‘Architects should realize that, for many Americans, some other way of building is going to have to be found.’

Dream of a freestanding home of one’s own—which, because of economic factors (and the reluctance of most Americans to realize the wastefulness of traditions rooted in dead expectations) will become more of a dream and less of an attainable reality in the ’80s. 2. The rising interest in historic preservation. Considering the alternatives, more people will prefer to think about fixing up old buildings, both public and private, rather than erecting new ones. The impulse will proceed more from economic imperatives than from altruistic or esthetic ones. Recent studies have shown clear financial benefits to areas that have undergone historic redevelop- ment renovating. It would be heartening to believe that people will gain enough architectural awareness to reject bad new design in favor of better, older buildings. With luck, the success of such ventures as Boston’s Fanueil Hall will lead more developers into efforts heretofore the balliwick of local preservation groups interested mainly in sav- continued on page 326
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ing, and not necessarily integrating, old buildings into a community's life.

3. The continuing alliance between good architects and developers. More real estate developers will begin to realize that better design can mean bigger profits. The examples of Frank Gehry for Rouse and Gwathmey Siegel for Evans (among many others), will encourage other large-scale commercial clients to believe in good architecture as a market amenity, and thus raise the general design quality of a construction market that has for too long been the province of the cost accountant and the derivative designer.

4. The rise of alternatives to architecture designed by architects. Despite the infusions of new talent into the profession at the end of each academic year, the outlook for architecture practiced by architects seems at best circumscribed. The architectural needs of vast numbers of our citizens are not being met under the current limitations of professional practice. The new ways people might begin thinking about—and responding to—these inadequacies are voiced in such books as The Timeless Way of Building, A Pattern Language and The Oregon Experiment. Sponsored by the Center for Environmental Structure at Berkeley, Calif., these books, and the dissatisfactions that encourage them, should put architects across the country on notice that for many Americans, some other way of building is going to have to be found. It remains to be seen, of course, how this message might be brought to the public most in need of hearing it.

What would one like to see happen? I would welcome:

1. An end to the debates on an architecture of styles. There is good architecture and there is bad architecture: Ought that not be enough definition for anyone? The fact that we are living in a big, diverse world seems not to have dawned on a great many people, who find it necessary to rail against this architect or that publication for their presumed perversion of the profession. Forget it! Relax! There's enough country out there for all of us to exist.

2. Stricter zoning and regional planning laws: The pervasiveness of the strip—and its form—is now part of virtually every community in America—should serve as a warning that this country, after all, has its limits.

3. Greater awareness of energy by the design-conscious architect, greater awareness of design by the energy-conscious architect. While high-style architects wait around for the development of a photovoltaic cell that will make energy-conscious design more of a “plug-in” affair than it heretofore has been, energy-conscious architects of considerable less design attainment are making hay while the sun shines. Although new critical criteria are being applied to architecture that works well in terms of energy (rather than architecture which looks good in terms of pure design) what will benefit all of us the most is an architecture that combines both. After all, the best indigenous architecture of the U.S.—from the Cape Cod saltbox to the Mississippi plantation house to Wright's prairie house—took climatic (i.e. energy) factors into consideration. Why can't every architect do that now?

4. Greater public awareness of architecture. Perhaps the biggest gap in our national cultural life is the lack of general understanding that architecture is our most important—because it is our most public—art form. Opera, ballet, theater, sculpture and paintings are now enjoyed by more Americans than ever before: When will architecture be accorded that status? That will happen once it is taught in primary and secondary schools (“Draw a city of the future that you would like to live in”), when it is seen as an essential part of general education. America is more than its buildings, but its buildings are a great part of America. Start with Independence Hall, the White House, the Alamo and the local courthouse, and it'll be as simple as that.

By Paul Gapp

Playing the role of an architectural Nostradamus is a highly risky business, and you could probably get better odds of being right if you went out to the race track. For one thing, many of us are prone to confusing what we would like to happen with what is likely to happen. For another, we do not always agree on what constitutes “architecture” (hence our habit of looking at a building and making the arcane judgment, “I don’t think that’s architecture”).

But perhaps we can avoid wishfulness, and for purposes of crystal balling maybe we can define architecture as the creation of any major one-of-a-kind structure that does not emerge from the Tinkertoy workshops of package builders.

Having gotten that far, perhaps we can also foresee all ritualistic discussion of post-modernism, a piece of semantic flapdoodle best left for those salon seminars where people argue about how many draftsmen can dance on the head of a pin.

In the next 20 years will rather definitively solve more problems and give our cityscapes more diversity, richness, complexity and the mass appeal touches of theatricality that enlivened major buildings constructed between two world wars.

The need for an architecture sensitive to user needs and respectful of the existing urban fabric has seldom been greater. Several cities around the nation are preparing to demolish and rebuild large sections of their downtowns with the aid of federal urban development action grants.

This raises the same threats of renewal overkill that wiped out so many neighborhoods in the 1950s and 1960s. It also presents some of the major architectural challenges of our time. Government itself will continue to be one of our biggest builders in the 1980s. It is a growth industry, particularly at the federal level, and forever in need of more space for its papershuffling and computers. As a client, it will probably be more responsive than the private sector to highly innovative designs for energy conservation, including the use of solar schemes.

Indeed, it is likely that energy saving will play the single most dominant role in the shape and functioning of our buildings in the new decade. Sooner or later, tight enforcement of the new federal energy budget standards will be carried out—after a messy period of balking by state governments responsible for making the program work. Owners will independently demand a higher degree of energy efficiency. Computer pools will be created for small architectural firms faced with new energy budgeting design complexities.

But the demands of energy saving will ultimately be positive in terms of design, continued on page 331
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Chapter 4 pinpoints those opportunities, describing the best way of identifying them. The following Chapter 5 then shows how best to narrow the list of possibilities to those that make the most sense in terms of cost, time, payback and technical feasibility. Two levels of evaluation are given—“quick” and “detailed.”

Chapter 6 shows what is needed to carry out the recommendations stemming from the evaluation, and offers much sound advice to the energy planner and owner for monitoring the results and maintaining the renewed building at a peak of performance.

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cause they will force architects into modes of problem solving that go beyond the present bounds of dry orthodoxy. Regional vernacular architecture will become more prominent because of climatic variables. And we will reinvent everything from the openable window to the awning.

Accompanying all this will be an increasing upsurge of renovation, recycling and adaptive use of buildings in the name of preservation, economy and the market's demand for the interesting and colorful ambiance of older structures.

There are no detectable signs that architecture of the 1980s will shake down into anything approaching a single new dominant school. Some perceive today's architecture as a confused and turbulent groping for new directions. And while this is correct to a degree, it does not necessarily follow that some new ultimate truth will be discovered to succeed the obsolete rationales of the International Style. We may be stuck with a decade or more of shifting, pluralistic design that defies the labeling so dear to art historians. But is that really so bad?

Harry C. Wolf III, FAIA

The decade of the '80s has been described as a time of limits, a realization of finiteness. The energy supply will not become more plentiful nor less expensive. Inflation will continue, making money more expensive and less available.

An age of scarcity demands that we husband our resources, expending them with care to produce a quality of result. Economy of capital is equal to economy of means which, in turn, means producing buildings that are less capital-intensive and more thought-intensive. Richer results mean better, not more. Architects will be asked to do the same, or more, with less and to do that—balance the scales—they will use intellect and imagination.

On the other hand, they may not be asked since, in lean times, a natural conservatism arises and one instinctively does that which is safe and proven, tried and true.

I suspect that some of the survivors of these tough times, the architects, developers, lenders and financial institutions, will quickly realize that solutions which proved tried and true for a previous era will turn out to be neither safe nor conservative. The fact is that the '80s will be a time when the tried and true don't get the job done. If the race does, indeed, go to the swift, then the quick will soon see that the key ingredient is soundness of principle rather than repetition of product. The only way to balance that "more with less" scale is with ideas. It's a distinction between acting conservatively and acting conventionally. Creativity will be at a premium, now more than ever before.

And what a wonderful time to respond! Issues will be increasingly complex and often without precedent. Seminal thinking will be highly valued and, as architects seek to produce a richness of spirit, the tensions between modernism and postmodernism will provide a flowering of both. The recycling of resources and the focus that brings on the rebuilding of cities combined with the awareness and approval of the past suggested by the advent of postmodernism, bodes well for the shift from object architecture to contextual architecture with the city as an object of design. It's going to be a challenging and exciting decade.

Robert B. Marquis, FAIA

To me architecture is a social art. (It is not, as some practitioners seem to think, painting or sculpture, even though it deals with many of the same elements.) It is the art of providing spaces for society's needs.

As such it reflects the dominant forces and ideas of its time and culture. If you will, it is the servant of society's institutions. As Kenneth Clark wrote in his book Civilization: "If I had to say which was telling the truth about society, the speeches by the minister of housing or the actual buildings put up in his time, I should believe the building."

The modern movement, the revolution that freed us from eclecticism, optimistically and ideally rejected the notion that architecture reflects society and instead led us to believe that through design we could change our society. This led us to believe that architecture would be an instrument of social change. In general, however, the modern movement failed to produce the better environment, the more humane work places, the garden cities, the sunny, livable housing for the poor. Those things were in the hands of the politicians, bankers, realtors, entrepreneurs—beyond the control of the architects.

The modern movement rejected the old eclectic, classical rules and substituted its own: functionalism, structural honesty, economy of materials and the celebration of industrial technology. In the hands of masters, the new rules produced some marvelous buildings. In the hands of the average practitioner, modern architecture most often produced buildings that were sterile and devoid of meaning to the user.

If architecture in the past 50 years has failed to fulfill social promises and satisfy social needs, it is not surprising that we are now in the midst of an antimodern revolution. If architecture reflects society, is it any wonder that in a confused and complex post-Vietnam, post-Watergate world, when old values and virtues are being constantly challenged, our architectural thinking is also confused? Is it not to be expected that previously agreed upon theories and rules governing most modern architecture are considered by many to be invalid? What was once considered the mainstream of architectural thought was challenged and then supplanted by another.

Mr. Wolf is founder of Wolf Associates Ltd., Charlotte, N.C. Mr. Marquis is founder of the San Francisco firm Marquis Associates.
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Essays from page 331

Tectural thought has broken up into a thousand streams.

I am too much of an optimist to believe in the virtue of the present pluralism, that the state of confusion, the lack of a rational, consistent approach to design will persist. In fact, I believe the thousand streams will re-converge. This belief does not stem from wishful thinking but rather from the premise that enormously strong and pervasive forces are at work in our society and a belief that if architecture indeed serves and reflects its time, it will be forced to respond to it.

The forces whose gravity are not yet fully recognized by society or its architects are: the scarcity of nonrenewable resources in general and energy consumption in particular; worldwide inflation; the widening chasm between the have and have-nots. There are those among us who believe that technology — energy satellites, desalinization, ocean farming, etc.—will master these forces. I do not have great faith in technological panaceas. I believe the response to these forces will not lead to a return of the modern movement per se, but to a set of new universally agreed upon rules that must again govern architectural design.

Climate and orientation will become a strong form determinant that in turn will result in a return to regionalism. Significant user involvement will become a political necessity for most projects. Many of the ideas that have been dramatized in this postmodern period will remain valid although applied more rationally. What will remain of "historicism," however, must be meaningful and understandable, not esoteric and whimsical.

What will remain of "historicism" must be meaningful and understandable, not esoteric and whimsical.

By Jerome M. Cooper, AIA

This past decade has been a period of great experimentation. Stripped of a rather fragile and esoteric rationale, the profusion of forms that has resulted seems to have more attributes of sensational show biz than architecture. In opposition to this, there are those who have steadfastly retained their affection for older and more familiar ideas.

Mr. Cooper is a principal with the Atlanta firm Cooper Carry & Associates, Inc.

Even though the society that led to their formulation no longer exists. Both of these diametrically opposite attitudes have most frequently led to the same results—form without meaning.

With modest exceptions, architects generally create buildings that reflect the values, needs and desires of the society that brings them into being. Because these have been in a state of flux for the past 10-15 years, it is neither unusual nor unexpected that design attitudes should be in a similar state, as has always been the case.

During the late 1930s, no one would have denied that the formalism, ornamentation and grand scale of the architecture of the Beaux-Arts no longer reflected a society that, racked by depression and beset by war, was steadily becoming less grand, less static and more functionally and technologically exact. The design attitudes and choices that architects began to make were largely influenced by these profound changes in society. A fluid view of space, functional view of form and a desire to relate the building process to the technology of industry, marked the design attitudes of the Bauhaus and International Styles. Though European in origin, they generally reflected the values, needs and desires of contemporaneous use.

Even though many fine individual buildings were done during the late '40s and the '50s and '60s, the shortcomings of design attitudes soon became evident. As architects, continued on page 340.
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Essays from page 337
often designing for other architects and architectural critics, we had tended to create spaces and forms that were handsome, well designed and impressive as testimony to the power and affluence of the entities that had brought them into being. But by the late 1960s, it had become evident that the rigid logic and the functional and technological exactitude of the Bauhaus and International Styles were leading to a comparatively anonymous environment. It became further evident that these attitudes no longer reflected a steady societal trend toward less structure, less order and rebellion against government and its institutions.

It is largely as a part of this unrest that the experimentation of the 1970s took place. The results of these experiments are usually enervating and occasionally provocative. They seem to concentrate more on style than substance, and only casually do they address the profound changes that are occurring in our society. Once again a situation has developed in which we, as architects and critics, tend to design more for other architects or architectural critics than for the individual. Oftentimes, the results are barely more than stage set design; and the effects are often only illusion and sensationalism.

If we can divest ourselves of our current desire for sensationalism, cast aside the design affectations of the past, address changed values, needs and desires of society forthrightly, then a new "architecture of humanism" may once again be at hand. During the period of regimentation in which we are concentrated on narrow abstractions, the development of the tendency toward regionalism which to date has been supported only by a romantic reaction to our perceived national uniformity. The demographic shift to an older population will affect a broad range of issues, from the minimum property standards to metropolitan settlement patterns. A more labor intensive economy could bring with it the opportunity for craftsmen- or no relevance in facing these issues.

What we currently call design has little or no relevance in facing these issues. None of this goes further than scherries. We are really dealing with indoor in-jokes. We are really dealing with indoor in-jokes. There is nothing immoral about any of this except that it is being mistaken for architecture and taken seriously in schools and in the press. Our attention is again being diverted from reality; our critical faculties are concentrated on narrow abstractions; our serious efforts are deprived of theoretical support. The revolution has come full cycle. This time without producing anything.

There is hope. The laughter is subsiding. Soon we may yawn and resume work. D

By John F. Hartray Jr., FAIA
I have hopes for the future, but no basis for predictions. The condition of the economy is without precedent in the U.S. and history offers no examples of societies that had a similar array of problems combined with our material and human resources.

My hopes for architecture hinge on our ability to redefine design so that the central interest of our profession can be brought to bear on the needs and concerns of society. There are a number of interesting challenges to be faced. Shortages in capital, materials and energy may force a return to a more truly decentralized economy, reinforcing the tendency toward regionalism which to date has been supported only by a romantic reaction to our perceived national uniformity. The demographic shift to an older population will affect a broad range of issues, from the minimum property standards to metropolitan settlement patterns. A more labor intensive economy could bring with it the opportunity for the return of craftsmanship. Even the proliferation of architectural students could hold great promise if they are equipped to survive and prosper in a turbulent economic environment.

What we currently call design has little or no relevance in facing these issues.

For two generations we were constrained by esthetic theories that kept us ignorant of history and prevented us even from seeing much of what was being built around us. During the period of enthralment, we were preoccupied with the Cartesian structures that have been loosely named postmodernism. The designs are really not intended to be built. Those that are become embar-rassments. We are really dealing with indoor in-jokes.

There is nothing immoral about any of this except that it is being mistaken for architecture and taken seriously in schools and in the press. Our attention is again being diverted from reality; our critical faculties are concentrated on narrow abstractions; our serious efforts are deprived of theoretical support. The revolution has come full cycle. This time without producing anything.

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