

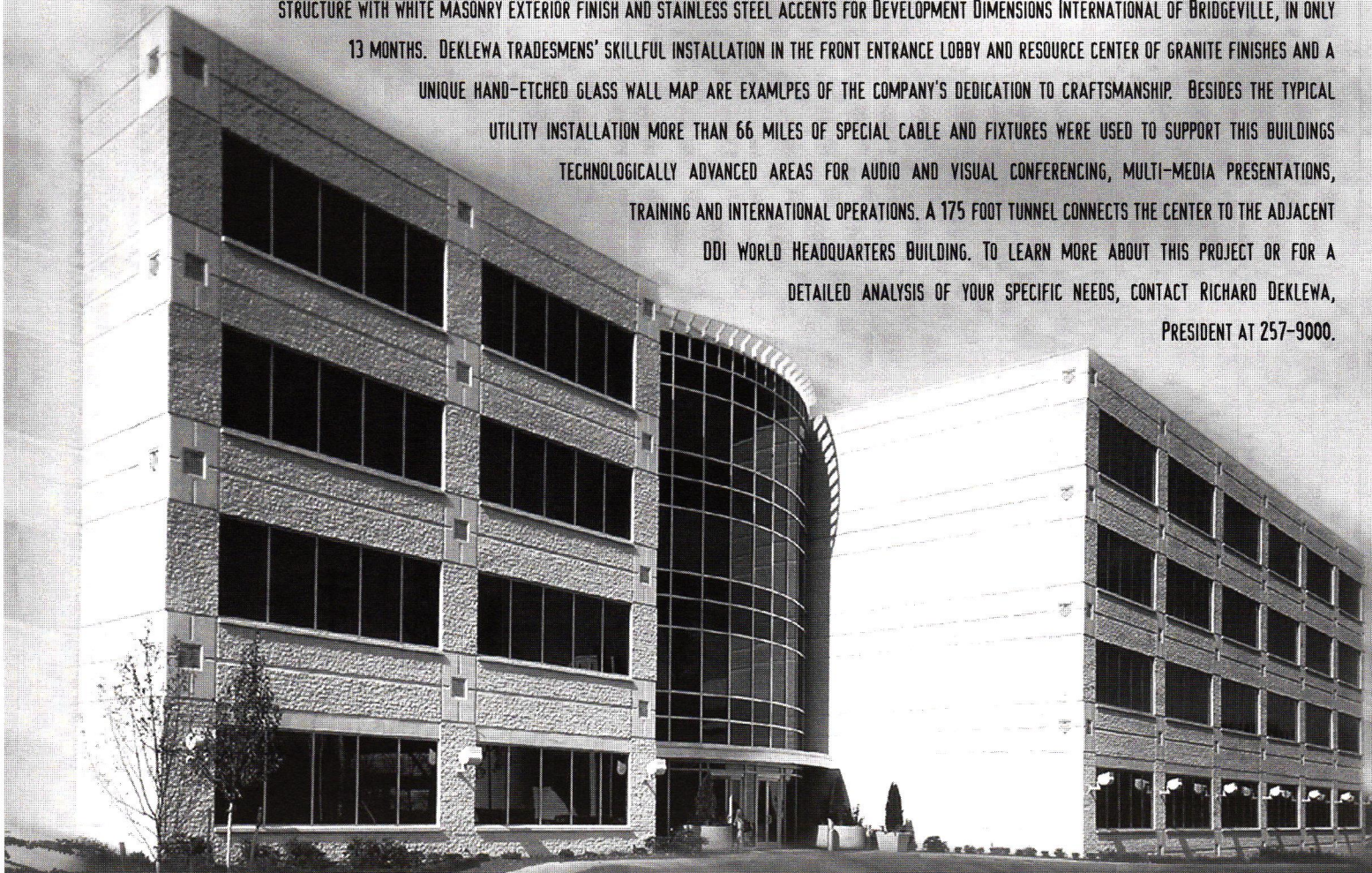
C O L U M N S





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THE RECENT COMPLETION BY JOHN DEKLEWA & SONS, INC. OF THE NEW CENTER FOR ADVANCED LEARNING AND ASSESSMENT TECHNOLOGY SIGNALS ANOTHER MILESTONE IN THE CONSTRUCTION FIRM'S LONG HISTORY OF PROJECTS FOR HIGH PROFILE CLIENTS. DEKLEWA CONTRACTORS ERECTED THIS "STATE OF THE ART" FOUR STORY STEEL FRAME STRUCTURE WITH WHITE MASONRY EXTERIOR FINISH AND STAINLESS STEEL ACCENTS FOR DEVELOPMENT DIMENSIONS INTERNATIONAL OF BRIDGEVILLE, IN ONLY 13 MONTHS. DEKLEWA TRADESMEN'S SKILLFUL INSTALLATION IN THE FRONT ENTRANCE LOBBY AND RESOURCE CENTER OF GRANITE FINISHES AND A UNIQUE HAND-ETCHED GLASS WALL MAP ARE EXAMPLES OF THE COMPANY'S DEDICATION TO CRAFTSMANSHIP. BESIDES THE TYPICAL UTILITY INSTALLATION MORE THAN 66 MILES OF SPECIAL CABLE AND FIXTURES WERE USED TO SUPPORT THIS BUILDING'S TECHNOLOGICALLY ADVANCED AREAS FOR AUDIO AND VISUAL CONFERENCING, MULTI-MEDIA PRESENTATIONS, TRAINING AND INTERNATIONAL OPERATIONS. A 175 FOOT TUNNEL CONNECTS THE CENTER TO THE ADJACENT DDI WORLD HEADQUARTERS BUILDING. TO LEARN MORE ABOUT THIS PROJECT OR FOR A DETAILED ANALYSIS OF YOUR SPECIFIC NEEDS, CONTACT RICHARD DEKLEWA, PRESIDENT AT 257-9000.



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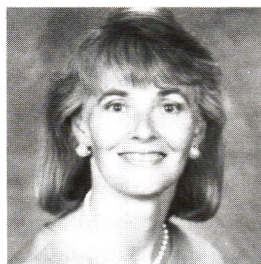
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GENERAL CONTRACTORS BUILDING SUCCESS

Designing Matters

by Cheryl R. Towers



"There is a design explosion under way — and it is forcing us to see everyday things in entirely new ways."

— TRISH HALL, NEW YORK
TIMES MAGAZINE

Proving that good architecture is good business

just gets easier and easier. We looked at school design in December, and came away with the "no brainer" that students learn better in a well designed environment. Communities also benefit from older schools that preserve the architectural grandeur of another era through modern renovation.

This month, nursing homes are in our cross hairs, and design wins again. Homes where the "Eden Alternative" movement has been embraced are seeing a drop in rates of infection, patient medication, and staff turnover, as well as an decrease in patient mortality. Like many of you, I have less than pleasant memories of a relative ensconced in a smelly, noisy, institutional setting, and I find this new alternative nothing short of a common sense miracle.

The design of this environment is posing special challenges to architects, as you will read. Imagine incorporating a floor to ceiling aviary into a home as Perkins Eastman Architects, PC will do at Woodmont, and you begin to sense the difference. These are not warehouses for the frail and infirm. These are homes in every sense of the word, and are designed to help the staff go about their business of maximizing residents' quality of life.

Is there any such thing as too much design? There's a question that an error forced me to ponder. I shipped the editorial contents of this issue off to graphic designer Joe Ruesch and only realized several days later that my own column wasn't among all that paper. By the time I realized my mistake, the *New York Times Magazine* hit on Sunday with an issue devoted to "The Shock of the Familiar", affording me a chance to comment. The editors state: "The objects of ordinary life are, as never before, designed to manipulate taste and desire. There is a design explosion under way — and it is forcing us to see everyday things in entirely new ways."

While Philippe Starck's designs don't fare well (Philip Johnson notes that his bar stool, while excellent sculpture, is hard to sit on, and "his juicer splatters all over the room"), Alcoa's new headquarters building is prominently

featured and admired. Interestingly, the article makes much of the building's openness; the close relationship between architect and client; and the fact that every detail has a business purpose. That purpose, in this case, is to increase sales and profit. Once again, good architecture is good business in the most literal sense.

We are seeing direct, quantifiable connections between the design of buildings and the effectiveness of the people functioning within them. It doesn't take a leap of faith to extend that concept outside of buildings to what we all also know to be true: good community design is also good business. We laud the efforts of architects, planners and leaders who are re-building our communities and encouraging a more humane level of design in areas experiencing growth. The real message is that whether a juicer, a building, or a community, someone designed it, either intentionally or unintentionally.

Since we are shaped by the environment that we're in, awareness of good design is something for all of us to promote. The concept of "good" design, though, is enough to make a stalwart uneasy. What is it? For the moment and until one of you convinces me to think otherwise, I'll go with a sign found in New York's Museum of Modern Art's chief curator of architecture and design Terence Riley's office, as cited in the same issue of the *Times* in an article by Patricia Leigh Brown:

GOOD DESIGN:

- 1) Fulfills its function.
- 2) Respects its materials.
- 3) Is suited to method of production.
- 4) Combines these in Imaginative Expression.

In a future issue, design matters become matters divine as we look at the explosion of construction and renovation of churches. If you would like your firm's work included, please call us by January 15.

Meanwhile, welcome to the second to the last year of the Millennium (okay, I'm a purist!), and may your good architecture be good for your business this and every year.

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On the cover: Photo of the Weinberg Village courtyard by Tsunehisa J. Tsuda. Design by Perkins Eastman Architects PC.

AIA Pittsburgh serves 12 Western Pennsylvania counties as the local component of the American Institute of Architects and AIA Pennsylvania. The objective of AIA Pittsburgh is to improve, for society, the quality of the built environment by further raising the standards of architectural education, training and practice; fostering design excellence; and promoting the value of architectural services to the public. AIA membership is open to all registered architects, architectural interns, and a limited number of professionals in supporting fields.

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Opinions expressed by editors and contributors are not necessarily those of AIA Pittsburgh. The Chapter has made every reasonable effort to provide accurate and authoritative information, but assumes no liability for the contents.

Sustainable Design

by Edward J. Shriver, AIA

This year after design awards, we took

the jury on a tour of Pittsburgh architecture. If you're going to be in town for any length of time at all, Fallingwater, Kentuck Knob, and Richardson's Courthouse are 'must sees'. Maurice Jennings, AIA and the rest of the jury were just blown away by the rich architecture, past and present, we have around us. Richard Handlen, AIA wrote me later and said "Pittsburgh's history, hills, water and, of course, architecture rival San Francisco's." I love to hear how wonderful Pittsburgh is from people who visit for the first time. That outside perspective is important in appreciating what we have.



"The intrinsic value of the AIA is in sustaining an environment in which we, as individual architects and architectural firms, practice our chosen profession - sustainable design as a professional environment."

I've been thinking since our long range planning retreat in November about what it is that the AIA, and specifically the Pittsburgh Chapter, have. Why do some people simply pay their dues, while others take on active roles, and others see no value in membership at all? Why do we need the AIA? Considering dues increases and mandatory requirements for continuing education, the Chapter's leaders have to face those questions. What is the value of your membership in the AIA?

My answer is sustainable design. Some of you who know me may experience a momentary blurring of vision and disorientation as you try to adjust your perspective. It will pass. This is not the sustainable design of green buildings or the new Convention Center, although those are important causes we will continue to support. Nor is it AIA National's livable cities initiative or the urban development issues Mayor Murphy has championed, although the Chapter will assert (and insert) itself on these issues, as Anne Swager has been doing on our behalf. We need the AIA to sustain and improve the environment for architects and architectural practice, an environment where our work is valued more highly, our expertise is more sought after and respected, and our fees are comparable to (or better than) other professionals.

The intrinsic value of the AIA is in sustaining an environment in which we, as individual architects and architectural firms, practice our chosen profession - sustainable design as a professional environment.

Great things have been done in this area already.

- Raising our profile in the political arena, as Anne did last year by getting two AIA members placed on the Convention Center RFP committee, when none were planned.
- Increasing our public profile through Design Awards, with its week long display of our members best work at The Carnegie and the special section published in the *Pittsburgh Business Times*.
- Taking a proactive position on Qualifications Based Selections in public projects, where the legislative committee is helping to write QBS into the Administrative Code of the new Allegheny County Charter.
- Highlighting Pittsburgh as an architectural design center, as Anne and John Martine are doing in leading the charge for architectural tourism.

Those are just the extraordinary things AIA Pittsburgh did last year. On top of that, there's *Columns*, the chapter's flagship publication, continuing education programs, documents sales, the Placement Service, responding to public requests for information, and answering your own calls and questions.

Plenty of new opportunities are presenting themselves. You can be a part of the effort to sustain and expand on the great environment already here. Your AIA membership gets you in. Your time and effort can make things even better. Place your tray table in its upright and locked position! That's sustainable design!



Columns is printed on recycled paper.

Dear Fellow Members of the American Institute of Architects:

I am proud to announce that the Middle Pennsylvania Chapter has decided to partner with the Pittsburgh Chapter for selected services. I had some reservations two years ago when we started to discuss this with Anne Swager. Our executive board was concerned that our Chapter might start to lose some of its identity and some control over the services that we provide to our members. Today, I am happy to say that I have no reservations regarding our purchase of services from the Pittsburgh Chapter. We will continue to provide our members with the services that we have been, in the manner that we have been. Coinciding with the release of this issue of *Columns*, we will add several new services for our members, including:

- a subscription to *Columns*;
- the creation of a Chapter firm directory for distribution on referrals; and
- a permanent phone number.

We will be adding these services within our current operating budget. These services are great resources to be used and contributed to. I encourage all of our members to contact *Columns* with article ideas and to respond to requests for participation.

We will all be better off working together and contributing as architects than if we ignore each other and erect barriers among us. I believe this because there are many businesses and other professions that work together and lift each other up, in the process eroding significant parts of our profession. For examples, take a close look at interior designers, construction managers, structural engineers and their associated publications. Those publications explicitly state goals that include greater recognition and providing more services from within their respective professions. If we do not lift ourselves up, the profession could disappear.

We at the Middle Pennsylvania Chapter invite every one of you to attend our seminars and programs. We also look forward to a wealth of shared information and experiences.

Sincerely, Jeffrey D. Light, AIA
President, Middle Pennsylvania Chapter

Making Communities Better

The AIA's Center for Livable Communities will hold a spring conference in Detroit for which the Regional and Urban Design committee (RUDC) is taking the lead. *Detroit...the Rebuilding of A Downtown* will be held April 16 - 19 and will provide a first-hand look at a massive downtown revitalization in progress. Contact Stephanie Bothwell, director, the AIA's Center for Livable Communities, 202/626-7405 or email her at bothwells@aiaemail.aia.org.

Eleventh Annual AIA Educational Honor Awards Program

The purpose is to recognize the achievement of individuals who serve the profession as outstanding teachers and to increase professional and public awareness of models of educational excellence in classroom, studio, community-based service learning or laboratory work. All courses completed within the last three years (since Feb 1, 1996) are eligible for submission. Monday, February 1, 1999 is the submission date. Contact Jonathan Teicher 202-626-7358 or teicherj@aiaemail.aia.org.

Call for Participation

The Initiative for Architectural Research (IAR) seeks participation in a research poster session at the ACSA Annual Meeting in Minneapolis from March 20-23. Research projects selected for exhibit will be those with the potential for a measurable impact on the architectural educator,

practitioner, the building industry, or the more general socioeconomic community of users. The deadline for submissions is Friday, January 15, 1999. For more information, contact Michelle A. Rinehart, ASCA, 1735 New York Avenue, NW, Washington, D.C. 20006 or visit the website at www.architectureresearch.org.

Letters, We Get Letters...

DEAR AIA PITTSBURGH: I am writing to acknowledge AIA Pittsburgh for yet another display of excellent judgment that makes this such a great organization. At the Design Awards at the Carnegie Museum, my name was THE ONE you selected from the hundreds of names entered into the raffle at that evening's event. I did not win a mere one of the four prizes you were offering — I won all four of them at once — I won the mother lode of raffle prizes.

The Steelers' game was a lot of fun and The Priory is nothing less than an urban oasis. I mailed the \$100 gift certificate from Kaufmann's (anonymously) to a family of six that I know through Habitat for Humanity through volunteering my architectural services to them for a year to renovate their house, and I am looking forward to using the \$50 gift certificate from Southwest Bistro sometime this winter.

To everyone involved in getting the raffle together: thank you!

Very Truly Yours, Sue Breslow



LEFT TO RIGHT: Jeffrey Light, AIA; Dallas Miller, AIA; Anne Swager; William Helsley, AIA; Edward Shriver, AIA; Shelane Buehler, AIA

LIFE WORTH LIVING?

A revolution is underway in the design of long term care facilities.

As architects, many of you have experienced a nursing home at some point in your career. Your experiences may have been as part of the job, or it may have been a part of a personal journey with a family member. Either one of these cases exposes people to some of the unfortunate realities of long term care in this country. Last November at the National Symposium on Healthcare Design in San Diego, a presentation was given that could revolutionize the industry to provide a truer definition of what "care" really means.

William H. Thomas, M.D. from Sherburne N.Y., author of *A Life Worth Living: How Someone You Love Can Still Enjoy Life in a Nursing Home*, described his thoughts as nothing new. Many of the theories he is bringing to the attention of the long term care and design communities have been around for thousands of years. His philosophy, the Eden Alternative, is centered on providing "care" rather than "treatment" in a traditional nursing home setting.

One of Thomas's basic premises is that there are three basic plagues in nursing homes: loneliness, helplessness and boredom. When these issues are the focus of an attempt to *really* care for residents, then a number of positive results can be seen. Many of you have experienced a nursing home that, while meeting all published regulations and codes, does not provide an atmosphere which is conducive to truly caring for individuals who can no longer care for themselves. A case in point is the residents' lounge with a vending machine or two in the room. How many of us have vending machines in our living rooms? How often did our parents or grandparents have to sit in line at each mealtime? One key element to a successful nursing home is the realization by the administration that they are dealing with customers. In addition to the elderly, the home must relate to their children and other family members who are making most of the decisions and are affected by the level of care as much as the physical appearance of the facility.



**Photo of the
Weinberg Village
courtyard by
Tsunehisa J. Tsuda.
Design by Perkins
Eastman Architects
PC.**

BY WILLIAM J. HELSLEY, AIA AND DAWN C. JOY, CHE



**Photo of Weinberg
Village resident
room by Jim
Shaefer Photogra-
phy. Design by
Perkins Eastman
Architects PC.**

Most residents of nursing homes spent a lifetime caring for others, they were not lonely, they were not helpless and they were not bored with the life they were forced to leave due to illness, infirmity or the absence of family to care for them as they had cared for others. Dr. Thomas proposes that the introduction of plants, animals and children into the lives of residents can, and will, remove the loneliness, helplessness and boredom. When Dr. Thomas talks about bringing animals into a facility, he means making them part of the residents daily lives. Many homes provide interaction with animals on a periodic basis, but the Eden Alternative brings dogs, cats and birds to live in the home permanently. This permanence is what helps to build relationships between residents and the pets.

Edenized homes have found that residents who were previously self-focused and uncommunicative were caring for pets and talking to others about what the animal likes or dislikes. This may sound overly simplistic to lay people. However, to trained medical personnel, it is amazing that something so simple can make such a positive impact on self esteem, overall health and the will to live.

Dr. Thomas's presentation caused us to stop and think about which elements of design can help remove these plagues from nursing homes and what changes can be made from a clinical perspective to incorporate these ideas into everyday care for real people, people with feelings. The key

to making any of these changes successfully is in getting the nursing home administration totally committed up front. Staff can be difficult to convince that a new way of doing things can be better for the resident, let alone better for their own frame of mind in *dealing* with residents.

From a design standpoint, there are many small and simple ideas that can be incorporated into the programming stage, such as incorporating living planters into a new design or adding them to an existing facility. Just putting the plants in place is not going to solve anything. However, some homes have been successful by identifying a staff member and a resident who care about plants and putting them in charge, as a team, of caring for the plants. Taking pride in that part of their work makes the difference for the staff member, and having something to care for makes all the difference in the resident's life.

Designers of nursing homes have long struggled with trying to breathe new life into a facility, only to be stymied by building codes and regulations. There are ways to make a home seem like home and to help the staff realize that what is truly important is care instead of treatment, in spite of the restrictions. Several Edenized homes have incorporated birds, not only in resident rooms, but also in the form of aviaries in public spaces for the enjoyment of all residents and visitors.

*“Loneliness is a social system failure,
not a body system failure. “*

Another physical element that can have a positive impact is personal privacy within the resident room. Gone are the days when residents were content to trade their window bed for a bathroom wall bed every few months just to break the monotony. New designs are exploring toe to toe bed configurations, and semi-private rooms that are not all uniform and that provide some privacy by designing separate resident bedrooms with a common foyer and shared toilet room. Some architects have been successful in convincing their clients that the old standard double loaded corridor may be efficient, but it does nothing to dispel the institutional quality that many older nursing homes exude.

This does not mean that all that is needed is design that's different. It means that design professionals need to use some of what was learned in a sociology class, and apply it to the built environment. When design professionals can create a world that's full of companionship, they will have accomplished something that no doctor can. Loneliness is a social system failure, not a body system failure.

Designing health care environments for long term care may be different than any other setting, because of the very nature of the aging process. If human beings live long enough, they become frail, and yet this phenomenon among other animal behavior is unique. In the wild there are no frail animals, and yet human beings are allowed to become frail because other human beings can see the sacredness of that person.

This idea is at the core of some fundamental design approaches described earlier. The conditions of loneliness, helplessness and boredom can become plagues that af-

fect the long term care staff as well in an organizational environment which does not care for the employee's soul and personality.

In "Reclaiming Higher Ground", Lance Secretan describes how leadership theories have been historically rooted in the psychology of personality. He further elaborates that personality is our exterior. It is shaped by environment, heredity, and such things as life experiences. Personality is expressed through lifestyle, physical presence, and the way we interact. The personality is used to meet needs by manipulating the environment through the five senses.

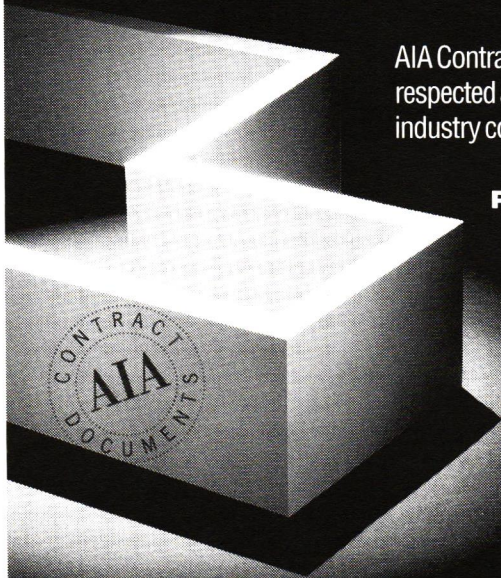
Consumer marketing appeals to personality features, and organizations are managed in much the same way. There are incentive programs for perfect attendance and bonuses for such financial efficiency as reducing overtime. These approaches exclude the soul of the individual and then, in turn, the organization.

Defining "soul" is more difficult than personality, but there is an intuitive knowledge that soul has to do with genuineness and depth. Soul is revealed in attachment, love and community, according to Thomas Moore in *Care of the Soul*.

The soul pursues values that respect the sacredness in everything, including humans. The soul thrives on information, learning and growth as well as the opportunity to share with others; it is the essential "more" than exists in our work as described by Secretan.

Given this explanation, work environments in health care must be built that meet the personality and some needs of the employee, as well as the needs of residents.

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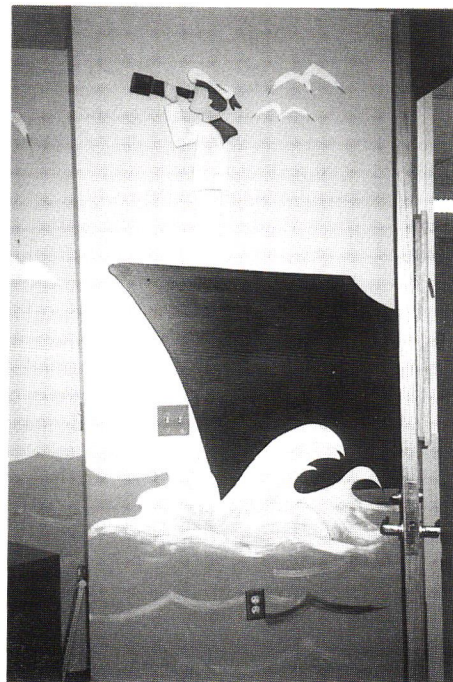
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EDEN IN PITTSBURGH

Two local facilities plus one from the Cleveland area illustrate the Eden Alternative in action.

Caring for patients with Alzheimer's and other forms of dementia as well as other incapacitating conditions associated with aging is often said to be the next great health care crisis as the baby boomer population ages. While the availability and affordability of appropriate care will undoubtedly continue to be an issue, it is reassuring to think that many facilities are converting to far more humane methods of delivering that care (see previous article). Two facilities here in the Pittsburgh area and one near Cleveland clearly illustrate the point; all were designed by Perkins Eastman Architects, PC.

Presbyterian SeniorCare is embarking on a unique nesting and breeding program in conjunction with the National Aviary. Residents will be involved with the care of the birds in a conservation project for endangered species. "It's very important to give residents hope about the future," states Suzan Krauland, Vice President for Managed Care and Home and Community Based Services at the Woodside Place facility in Oakmont. "We wanted residents to be able to participate in the feeding process, preparing the habitat and to generally be involved with the life cycle of the birds." Susan Collins, Vice President for Assisted Living at



The Menorah Park Center for the Aging has incorporated a mini-zoo into its facility: the Reitman Nature Center.

BY CHERYL R. TOWERS

“There is a lesson in this movement that stems, perhaps, from a combination of Pittsburgh’s aging population, the strength of its philanthropic and religious communities, and the design talent available.”

Woodside adds that “the Aviary picked birds for us based on size, color, vocalization (singing, rather than talking), and what they eat. These were important features that would attract residents and minimize maintenance.”

“We learned some interesting lessons as a result of our work at Woodside,” notes David Hogland, AIA. “The traditional facility has a variety of rooms for specific activities, which isn’t like a real home at all. If you do a good job of designing the whole home, you don’t need lots of specialized spaces.” Hogland pointed out that art would be likely to happen in the kitchen, for instance, and that there should be more normal outlets for activities, such as a (non-functioning) car parked outside that residents could sit in and reminisce about past travels. “Staff and designers get trapped in the past, even with good intentions. In this model, care givers become activity directors, especially with Alzheimer and dementia patients who are often physically healthy and don’t need a great deal of physical care. The environment and the operation have to work together so that the environment becomes a part of the overall program.”

The Menorah Park Center for the Aging near Cleveland has incorporated a mini-zoo into its facility: the Reitman Nature Center. The Center serves as both an activity room and a destination for residents and visitors alike. In addition, Menorah Park houses a daycare facility, making this the perfect meeting place for intergenerational contact, an important element in removing the isolation that the elderly and infirm often feel.

Weinberg Village in Pittsburgh’s Squirrel Hill neighborhood provides other examples of “making everything as normal as possible,” according to Hogland. “We broke the facility into family sized ‘villages’, and each unit is named after an area in Squirrel Hill. ‘Allderice’, for instance, contains donated memorabilia from the high school, such as yearbooks and a letter sweater.”

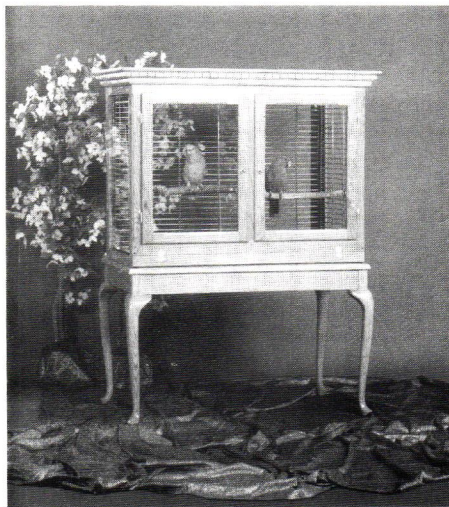


Photo courtesy of Avian Accents.

Interestingly, Hoglund notes that many of the rules that long term care facilities feel they have to abide by and that contribute to institutional sterility are often “not really written in the books — they are more often in people’s minds”, suggesting that determination can overcome many traditional obstacles.

There is a lesson in this movement that stems, perhaps, from a combination of Pittsburgh’s aging population, the strength of its philanthropic and religious communities, and the design talent available. Again, according to Hogland, “The industry is changing rapidly, and Western Pennsylvania is at the center of this change. Thousands of visitors are coming here to see what we’re doing in long term care. It’s a product of the volume of care available and the quality of the sponsors of that care, such as the Jewish Association on Aging and Presbyterian SeniorCare.”

Resources:

A Life Worth Living: How Someone You Love Can Still Enjoy Life in a Nursing Home, William H. Tomas, M.D., VanderWyk & Burnham, 1996.

The Complete Guide to Alzheimer’s-Proofing Your Home, Mark L. Warner, AIA (order through www.agelessdesign.com).

B141—1997: Avoiding Pitfalls, Grasping Opportunities

Explaining changes in a fundamental document.

To anyone familiar with the 1987 edition of B141, the 1997 edition is...different. Very different. It's a bit like getting off the plane in a country you've never visited before. And by the way, you're expecting to transact business there. Needless to say, you want answers to a lot of questions very quickly.

This article is intended to provide some of those answers. In part, this means problem-seeking: the 1997 B141 contains numerous pitfalls for users who approach it as if it were the 1987 edition. Substantive changes apart, much more decision-making is required up front to complete the document. "Documents" might be a more accurate term, because B141 now consists of two forms: the agreement proper and a scope of services. AIA has announced its intention to develop other services forms, but for the time being there is only one, and users wishing to contract for other services packages must draft their own.

The fun starts in the first article of the agreement form, entitled "Initial Information." That article begins with the statement, "This Agreement is based on the following information and assumptions." Requests for information range from such obvious matters as size and use to some fairly searching questions about the owner's budget. (Regarding the latter, note that the requirement that the owner furnish evidence of adequate financing has been eliminated.) Full and adequate responses here should eliminate many of the misunderstandings that can later blossom into full-blown disputes. If a dispute arises anyway, responses given in this article can serve to limit areas of disagreement and make the dispute easier to resolve.

It takes actual responses to do this, however. Leaving a blank space blank is not the same as writing "Not applicable," "Unknown at this time" or some other indication

that a more specific response is impractical. The wise course is to respond as fully as possible to each of the inquiries.

A substantive change of some importance is the new requirement, in Subparagraph 1.2.3.4, that the architect not divulge confidential information of the owner. The knowledgeable practitioner knows not to do this in any case, but that's the easy part. The requirement extends to the architect's consultants, meaning that an architect who fails to include such a provision in an architect-consultant agreement can be caught in the middle: contractually liable to the owner for the consultant's unauthorized disclosures, but without contractual recourse against the consultant. (Note that the 1997 C141 *does* contain such a provision. The 1997 C142, if used with the 1997 B141, would incorporate this provision by reference.)

The owner's confidential information might be indicated in the Initial Information. So might any conflicts of interest the architect is required to disclose under Subparagraph 1.2.3.5. That provision reads, "Except with the Owner's knowledge and consent, the Architect shall not engage in any activity, or accept any employment, interest or contribution that would reasonably appear to compromise the Architect's professional judgment with respect to this Project."

What, you might reasonably ask, does that include? The answer depends on state law, which may define conflicts of interest quite broadly. In some jurisdictions, specifying a product made by a company in which you hold stock, even through a mutual fund, would be enough to trigger the requirement. The moral, then: find out what applicable law requires in this area and, when in doubt, disclose.

BY JOSEPH DUNDIN

Ground rules for the use of drawings and specifications — now defined as Instruments of Service — have been clarified, and the definition is specifically extended to documents in electronic form. The owner makes use of the architect's documents under a nonexclusive license, and the architect is required to obtain a similar nonexclusive license from each of the architect's consultants. This makes it clear, in the context of the owner-architect agreement, that the consultants retain ownership of the documents they produce. It also means consultants must be required to grant such licenses, as they are in the 1997 C141 and C142.

The concept of Additional Services is absent from the new B141, but something not very different has taken its place. Under the section titled Change in Services, the architect may be entitled to an adjustment in compensation "if mutually agreed in writing, if required by circumstances beyond the Architect's control, or if the Architect's services are affected as described in Subparagraph 1.3.3.2." How does a Change in Services differ from Additional Services? One difference is the link back to the Initial Information. This is an additional reason to respond as fully as possible to the inquiries in that article: you may have difficulty establishing your right to an adjustment in compensation if the baseline is not clearly drawn.

Other grounds for a Change in Services are set out in the last article of the services form. Like the Initial Information, Paragraph 2.8.1 requires responses at the time the agreement is executed. This paragraph permits the parties to agree on how many inspections, site visits, or reviews of a submittal will be conducted before the architect is entitled to an adjustment in compensation.

Mediation is now included as a condition precedent to arbitration or litigation. But why mention litigation, if mandatory arbitration is retained in the document? This is done because the mediation and arbitration requirements are independent of one another. The mediation provision is drafted in such a way that it will survive if the parties strike arbitration, or if the document is used in a state that

does not enforce arbitration agreements relating to future disputes.

A further change to the dispute-resolution provisions is the waiver of claims for consequential damages, which limits recovery to damages directly resulting from the other party's breach. This provision is a stripped-down version of the waiver contained in the 1997 A201. Here again, the architect will want similar provisions in place in the architect-consultant agreements. The 1997 C141 contains such a waiver, and the C142 would adopt the B141 waiver by reference.

One change that has elicited comment, not all of it favorable, from architects is a new provision permitting the owner to terminate for convenience. The thinking here is that an owner who wants to terminate will find a way to do it. Instead of tempting that owner to concoct a breach by the architect, this new provision permits a termination that is not the fault of the architect and which therefore entitles the architect to full payment of compensation and reimbursables up to the time of termination. Termination expenses would be due as well, but note that these are no longer expressed as a percentage of total compensation. The percentages were tied to phases of services and those, as we shall see, have been dropped from the services form.

Article 1.4 contains the interlock with the services form. If you plan to use the services form that comes with the agreement form, no change is needed. If not—if you've developed your own services form, or if down the road you find yourself using one of the services forms that AIA plans to publish later—then the services form you're using needs to be described here.

Compensation is handled in a much more open-ended way than in previous editions of B141. AIA has stated that it has revised the payment provisions to avoid suggesting that any one payment method is more appropriate than others. This means users have some more choices to make, and making them is not simply a matter of filling in a few blanks. Model language for six methods of compensation

is provided in the Instructions to B141-1997. Most of the inserts are fairly long and will require attachments to the agreement form. One caution: when using percentage of cost of the work or stipulated sum, don't neglect to include the chart allocating percentages of compensation among the various services. This is what the phases of services were originally for: if the agreement is terminated and the method of compensation is not based on time, there needs to be a way of determining how much of total compensation the architect is entitled to.

But the phases are gone. Instead, the services form groups the architect's activities by type of service. Where construction procurement and contract administration are concerned, the new arrangement doesn't greatly alter the outline of the document. One difference, however, is that scheduling, cost estimating and other services that ordinarily distribute across various stages of the project are grouped together in the first article of the services form.

Within that article, Paragraph 2.1.3 merits a closer look. It reads, "The Architect shall consider the value of alternative materials, building systems and equipment, together with other considerations based on program, budget and aesthetics in developing the design for the Project." This is not exactly "value engineering," to the extent that that term can be precisely defined. Taking account of "the value of alternative materials, building systems and equipment" is something an architect generally does anyway when selecting those items. But now there is an explicit promise to do it, and that promise may serve as a useful reminder to some owners that thinking about these things is part of the architect's job.

There is nothing very new in the next paragraph, either. Making presentations to explain the design of a project to the owner is one of the sub-specialties of the practice of architecture. What's new, again, is listing it as a service and letting the owner know up front that this is part of the package.

Subparagraph 2.1.7.6, on the other hand, represents a major change, and it is one of the principal selling points,

for owners, of the 1997 B141. If bids or proposals come in over budget, the owner may require the architect to redesign. Under the 1987 edition, that only happened if a fixed limit of construction cost had been agreed to. Now it's the default mode. However, the relevant budget figure would ordinarily be the one given in the Initial Information. If the budget changes in a way that affects the architect's services, the architect would be entitled to a Change in Services.

The article entitled "Supporting Services" is something different: it covers the services of the owner, who is required to provide a program, surveys and geotechnical services. These provisions are grouped in the services form because they clearly apply to construction projects, and may not apply to other types of services architect can provide using the agreement form. The caution, of course, is that architects providing design or construction-related services using other services forms—which would have to be custom-drafted at this point, since AIA has only published the one discussed here—must address these same matters. They will have to develop their own language to do it, since AIA does not permit the provisions in the standard services form to be copied by excerpting.

Most of the evaluation and planning services are new, although based in part on language dealing with schematic design in the 1987 B141. Now, the architect is promising to undertake a more searching analysis of the owner's information. This may result in some findings the owner doesn't want to hear, so architects will want to hone their diplomatic skills. Together with Paragraph 2.1.3, though, the new language gives the architect the opportunity to provide a better, and perhaps more cost-effective, design than the owner originally contemplated.

The architect's services during construction procurement are set out in exhaustive detail. At this point, it would be useful to have indicated in the Initial Information whether the project is to be bid, negotiated or some of each. If that information changes in a way that affects the architect's services, a clear statement of it in that subparagraph would provide the basis for a Change in Services.

Changes regarding the architect's evaluations of the work of the contractor have mostly to do with presentation. The architect's responsibilities do not appear to have changed. The disclaimer regarding means and methods has been eliminated, but A201 assigns these responsibilities to the contractor in any case. In addition, the word *observation* has been eliminated in both documents. Interestingly, this last change had its beginnings in a proposal to reintroduce the term *supervision*, which was eliminated in the early 60's. Were the liability concerns that led to its elimination unfounded? Well, perhaps. But feedback from attorneys indicated that *supervision* could not be reinstated without the risk of extending the architect's responsibilities into areas beyond the architect's control. The fallback position was to eliminate *observation*—a term that added little of substance but which seemed to distance the architect from the construction process.

Subparagraph 2.6.4.3 is derived, in some measure, from 1987 language entitling the architect to rely on professional certifications provided by others. The new language more squarely addresses the issue of design services provided by the contractor. The architect is now entitled to rely on services and certifications of design professionals retained by the contractor, but must specify "appropriate performance and design criteria which such services must satisfy." Note that the 1997 A201 requires the owner *and* architect to specify *all* criteria. B141 handles this differently on the assumption that the owner will generate some criteria in-house or obtain them from advisers other than the architect, and that *all* such criteria will then be forwarded to the contractor.

The facility operation services are less extensive than the heading might suggest. The services described consist mainly of two meetings. Those meetings are an opportunity to explore the need for further services, however, and the promise that they will occur lets the owner know at the outset that the architect's relationship to the project will not be severed at final completion.

Subparagraph 2.8.3 is something quite different. This is essentially a B163 appendix to B141, but without B163's

descriptions of services. Users will need to develop their own descriptions; another option would be to reference a pre-existing description. Relying solely on the terms in the left-hand column of the matrix would be most unwise—more or less the contractual equivalent of bungee-jumping. Note too that this paragraph can be used for three different purposes: indicating that a service will be provided by the architect, indicating that it will be provided by the owner, or stating that the service will not be provided by either party.

The foregoing is only a quick review of the new B141. It hits the high spots and points out some of the subtleties, but it is by no means a comprehensive answer to the question, "What's new?" The 1997 B141 is the most radically new AIA document in recent decades, and will be the subject of study and learned comment for years to come. Users would do well to take part in that process—they will be contributing to the evolution of what the AIA has called "a living document." For now, though, the message should be clear: This isn't your father's B141.

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Joseph Dundin is editorial consultant to the AIA Documents Department.

The B141-1987 Documents are no longer available. AIA Pittsburgh will be holding a seminar on the B141-1997 in March.

Membership Committee

AIA Pittsburgh welcomes four new members.

KENNETH J. KULAK II, AIA Cuteri Architectural Group, Inc.

EDUCATION: Kent State University

PAST PROJECTS: Bentleyville Telephone Company Headquarters, Rostraver Township Municipal Building and Charleroi Medical Center

INTERESTS: tennis, volleyball, skiing, singing, piano and anything that gets me away from architecture for a while.

COMMITTEE INTERESTS: Professional Development, Communications and Legislative.

EDNA LaMONT, Associate AIA The Eckles Company Architects

EDUCATION: Anahuac University (Mexico City), European Center for the Architectural Heritage Conservation (Venice, Italy)

SPOUSE: Michael

PAST PROJECTS: Conservation and restoration works of the Church of San Servolo, Venice, Italy

INTERESTS: reading, painting and horseback riding

COMMITTEE INTEREST: Environment

CHRISTIAN J. BONONI, Professional Affiliate St. Lawrence Cement

EDUCATION: New England College, Northwestern University

SPOUSE: Angela

CHILDREN: Benjamin 2 years. and Silvia 8 weeks

PAST PROJECTS: Rock & Roll Hall of Fame, Key Tower in Cleveland, Johnstown Air Force Center,

INTERESTS: fly fishing, golf, skiing, ice hockey.

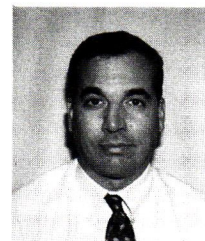
COMMITTEES: Pittsburgh Interns & Young Architects, Programs/Exhibits.

TAMI PENTELLO GREEN, Associate AIA IKM, Inc.

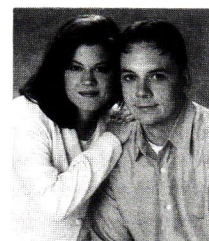
EDUCATION: Kent State University

SPOUSE: Brian R. Green, Assoc. AIA

INTERESTS: free-hand drawing and history of art and sculpture.



Bononi



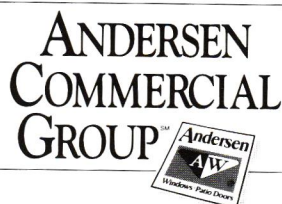
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From the Firms

► **Burt Hill Kosar Rittelmann Associates** has opened an office in metropolitan Boston to better serve the New England market.

L. Robert Kimball is the architect and Dick Corporation the contractor for construction of a new 11-story Hyatt Regency Hotel and Conference Center at the Pittsburgh International Airport.

WTW Architects have been selected to design the renovations and addition at the University of Connecticut's student union on the main campus at Storrs. The project is expected to cost approximately \$20 million.

LLI Technologies Design Group has changed its name to **LLI Technologies Engineering and Construction, Inc.** to more closely reflect the services offered by the 88-year old firm.

Repal Construction Co., Inc. is the contractor for three phases of work at The Salvation Army Camp Allegheny in Ellwood City.

General Industries has broken ground for a \$1.2 million addition to Aquatech International Corporation.



Aquatech ground breaking (left to right): **Bob Mahoney, Mellon Bank; Frank Livorio, Mellon Bank; Dev Nagar, architect; Devesh Sharma, Aquatech; Chandra Sharma, CEO Aquatech; V.N. Sharma, president, Aquatech; Bracken Burns, Washington Co. Commissioner; Dennis Gray, Aquatech; Donald Ivill, president, General Industries; Jim Ray, project Manager, General Industries; and Lou Falbo, executive director, Washington County Industrial Development Authority.**

Business Briefs

► **Thomas A. Vogel, AIA** has joined **Burt Hill Kosar Rittelmann Associates** to head up Burt Hill's Boston office.

DRS Architects has named Deborah Coyle as director of business development for the firm's corporate, health care and educational areas.

RSH Interiors has added Suzanne Lynch to the firm in the position of interior designer.

Kenneth Harchar is the newest addition to the professional staff of **WTW Architects**.

L.D. Astorino & Associates, Ltd. of the L.D. Astorino Companies has added Michael Lindner to the staff as a project architect and Craig Sesti in Cadd drafting.

TEDCO Construction Corporation recently hired Anthony P. Malanos as project manager/estimator.



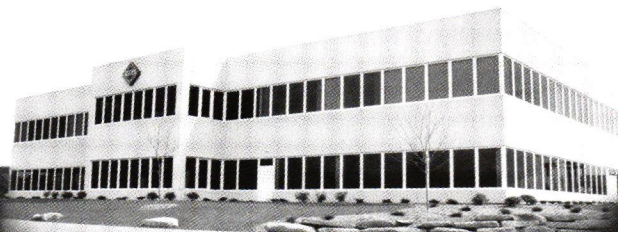
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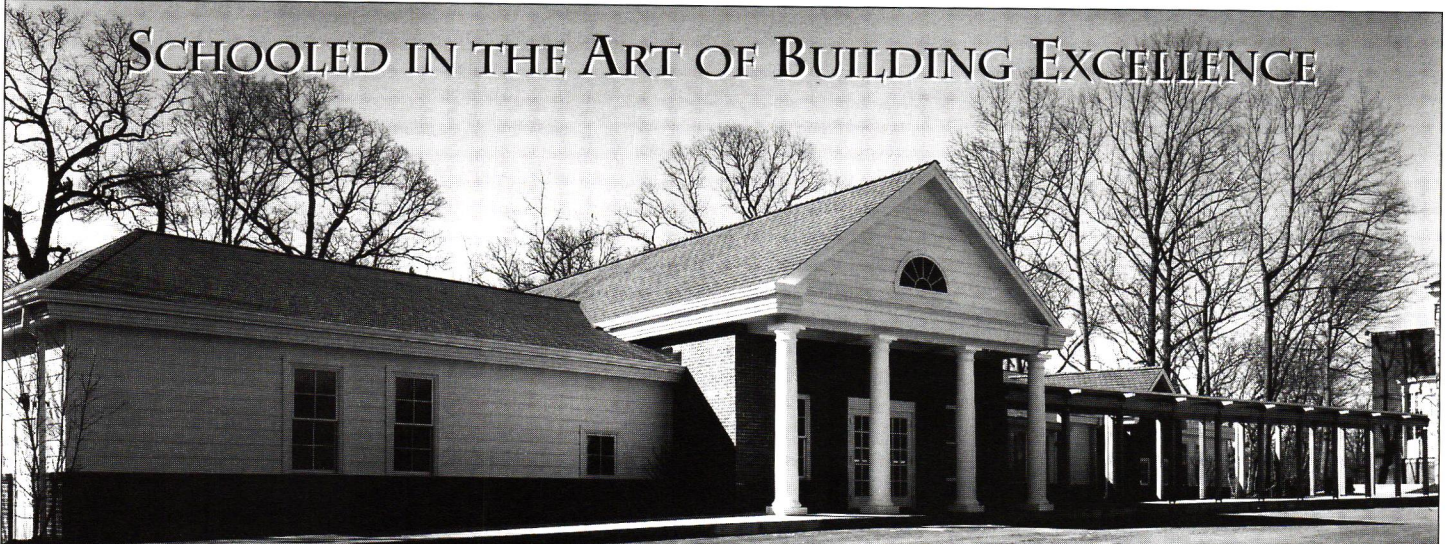
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January 12, Tuesday

AIA Pittsburgh Board Meeting
4 p.m. at UDA offices. All members are
welcome, 471-9548.

January 13, Wednesday

**Professional Development Committee
Meeting**, noon at the Chapter office,
Scott Keener, AIA, 241-3385.

February 8, Monday

**Communications Committee
Meeting**, noon at the Chapter office,
471-9548.

February 9, Tuesday

AIA Pittsburgh Board Meeting
5 p.m. at the Chapter office. All members are
welcome, 471-9548.

February 10, Wednesday

**Professional Development Committee
Meeting**, noon at the Chapter office,
Scott Keener, AIA, 241-3385.

February 12, Friday

Committee on the Environment, noon
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AROUND TOWN

February 3–March 10, (wednesdays)

Air Conditioning Clinic, by Pittsburgh
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1 C A L E N D A R

January 19, Tuesday

Tour of the ALCOA Corporate Center, CSI/
ASID/IFMA, 6 p.m. hospitality, 6:30 presentation
(ALCOA/The Design Alliance—Marty Powell)
7 p.m. building tour. \$25 Reservations by Fri.
Jan. 15, 412-823-5063. 1 AIA L.U.

January 20, Wednesday

Industry-Wide Forecasting, SMPS
Pittsburgh. Bill Flannagan, Stuart Hoffman, Dick
Cassetti and Mulugetta Birru discuss the Global
and U.S. Economy, SW PA Economic
Development and Short-term/Long-term
Prediction. 11 a.m.-1:30 p.m. The Rivers Club,
One Oxford Center. SMPS Members \$25, Non-
members \$40. Registration call Patty Swisher
412-281-1337.

January 22, - March 21

Affordable Housing, an exhibition exploring
various artists' view of this aspect of human
experience, opens from 5:30-9:00 p.m. at the
Morgan contemporary glass gallery, 5833
Ellsworth Avenue. 412-441-5200.

February 10, Wednesday

Society of Design Administrators, monthly
meeting at the AIA Pittsburgh office. Program:
Electric Choice. 11:30 a.m.-1:30 p.m. Lunch \$15
members, \$17.50 non-members. Reservations
call Ellen Lockhart 561-7117.

February 11, Tuesday

**Sealant & Waterproofing Coatings
Practical Guidelines Seminar**, by Sonneborn
Building Products at the Holiday Inn, Greentree.
11 a.m.-1 p.m. contact Leonard Fabrizi
412-922-3028 2 AIA L.U.s.

February 24, Wednesday

Pennsylvania Construction Lien Law. This
seminar covers the nuts and bolts of the PA
Public Works Contractor Bond Law. PA's Prompt
Payment Acts and PA Lien Law. Attendees will
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PHONE: (412) 366-6767 FAX: (412) 366-1404
CONTACT: Frank T. Poerio
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■ REPAL CONSTRUCTION CO., INC.

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PHONE: 271-3700 FAX: 271-3866
CONTACT: Bill Palmer, Jr.
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CONTACT: Beth Cheberenchick
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■ TURNER CONSTRUCTION COMPANY*

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436 Seventh Avenue, Pittsburgh, PA 15219
PHONE: 412-255-5400 FAX: 412-255-0249
CONTACT: Raymond H. Steeb, III
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■ JOSEPH VACCARELLO, JR. INC.*

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CONTACT: Gary Dickinson
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CONTACT: Robert C. Baierl
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Edward A. Shriver, Jr., AIA

Senior Vice President, Johnson/Schmidt and Associates & President, AIA Pittsburgh



Firm: fairly, although with age, it's getting spongy.

Family: 1 wife, 2 kids. Home in the 'burbs. Head in the clouds....

Years in practice: 20, give or take a couple.

Education: Carnegie -Mellon University, B. Arch. Honest. You can check. That thing from the matchbook was just a joke.

Project your proudest of: PNC branch, USX tower (now demolished).

Most embarrassing moment: getting caught selling beer at my high school graduation party.

Building you wish you'd designed: Temple of Queen Hatshepsut by Senmut, about 1520 bc.

Building you'd like to tear down: Transamerica Tower, San Francisco. What a horrible thing to do to such a great city.

If you hadn't been an architect, you would have been: a war correspondent.

If someone made a movie of your life, who would play you? James Earl Jones.

If you could live anywhere in the world, where? Munich.

What's the best part of your job? 5:15.

What have you always wanted to tell your boss? If it's that easy, *you* do it.

What have you always wanted to tell your clients? I thought they WERE the boss?

The most annoying thing that architects do is: complain that nobody understands what we do.

Your advice to young architects is: take your work seriously, and your self lightly.

Your favorite interior: Costanzo's and Walt Disney World.

Your favorite building: Fallingwater.

Your favorite city: Vienna or Berlin — that's why I picked Munich to live. I'd be half way between both, and the beer is better.

Your favorite architects: Imhotep, Boromini, Gaudi, and B.H. Latrobe

Favorite architecture book: None. If you're not there, it's not architecture. It's photography. Or philosophy.

Most architecturally appealing restaurant in Pittsburgh: Valhalla. Great job, Mr. Celento.

Best gift to give an architect: thank you for a job well done.

Wish list for Pittsburgh: a world class convention center, and two equally great stadiums.

What's the next big architectural trend: neo-Egyptian re-revivalism.

Someday, I'd like to: be in charge. Of everything.

I want to be remembered for: ever.

People would be surprised to know that: I was a Green Beret, but only because all the other hat choices made you look silly.

The secret to my success is: speed.

I belong to the AIA because: I'm really into sustainable design.

ENGINEERS' DIRECTORY

A LISTING OF AREA ENGINEERS AND THEIR PROFESSIONAL SERVICES. To include your firm in this directory, call Tom Lavelle at 882-3410.

■ BARBER & HOFFMAN, INC.

101 E. Diamond Street, #302
Butler, PA 16001-5905
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CONTACT: Michael R. Miller, P.E.
Consulting / Structural

■ BRACE ENGINEERING, INC.

3440 Babcock Boulevard, Box 15128
Pittsburgh, PA 15237
PHONE: 367-7700 FAX: 367-8177
CONTACT: Frank C. Brace
Structural

■ BURT HILL KOSAR RITTELMANN ASSOCIATES

400 Morgan Center, Butler, PA 16001
PHONE: (724) 285-4761 FAX: (724) 285-6815
CONTACT: David R. Linamen, P.E.
Construction / Consulting / Electrical Mechanical

■ BURT HILL KOSAR RITTELMANN ASSOCIATES

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PHONE: 394-7000 FAX: 394-7880
CONTACT: Don Rimer
Construction / Consulting / Electrical Mechanical

■ CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

333 Baldwin Road, Pittsburgh, PA 15205
PHONE: 921-3402 FAX: 921-1815
CONTACT: Gregory P. Quatchak, P.E.
Testing & Inspection / Civil / Construction Consulting / Environmental / Geotechnical

■ CLAITMAN ENGINEERING ASSOC., INC.

1340 Old Freeport Road, Pittsburgh, PA 15238
PHONE: 963-6700 FAX: 963-7217
CONTACT: Robert Rosenthal
Consulting / Mechanical

■ DODSON ENGINEERING, INC.

420 One Chatham Center, Pittsburgh, PA 15219
PHONE: 261-6515 FAX: 261-6527
CONTACT: Herbert J. Brankley, P.E.,
Gregory L. Calabria, P.E.
Consulting / Mechanical

■ ELWOOD S. TOWER CORPORATION

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Pittsburgh, PA 15237
PHONE: 369-7777 FAX: 364-8115
CONTACT: Theodore H. Dannerth, P.E.
Consulting / Electrical / Mechanical Telecommunications

■ ENGINEERING MECHANICS, INC.

4636 Campbells Run Road, Pittsburgh, PA 15205
PHONE: 923-1950 FAX: 787-5891
CONTACT: Daniel Grieco, Jr., P.E.
Testing & Inspection / Geotechnical Consulting / Environmental Blasting Vibrations

■ FIRSCHING, RUSBARSKY AND WOLF ENGINEERING, INC.

4240 Greensburg Pike, Pittsburgh, PA 15221
PHONE: 271-5090 FAX: 271-5193
CONTACT: Daniel J. Wolf / David D. Rusbarsky
Consulting / Mechanical

■ FOREMAN ARCHITECTS ENGINEERS, INC.

P.O. Box 189, Zelienople, PA 16063
PHONE: 724-452-9690 FAX: 724-452-0136
CONTACT: David E. Foreman, P.E.
Civil / Consulting / Electrical / Mechanical Structural

■ THE GATEWAY ENGINEERS, INC.

1011 Alcon Street, Pittsburgh, PA 15220
PHONE: 921-4030 FAX: 921-9960
CONTACT: Rose Griffin
Civil / Testing & Inspection / Consulting Environmental

■ GIPSON ENGINEERING

122 Kerr Road, P.O. Box 14359
Pittsburgh, PA 15239
PHONE: (724) 339-2911 FAX: (724) 339-8814
CONTACT: Stephen R. Gipson, P.E.
Consulting / Electrical / Mechanical Structural

■ HORNFECK ENGINEERING, INC.

1020 North Canal Street, Pittsburgh, PA 15215
PHONE: 781-1500 FAX: 781-5593
CONTACT: Richard W. Petrie, P.E.
Consulting / Electrical / Instrumentation Lighting / Telecommunications

■ JSA/LAWLER ENGINEERS

P.O. Box 15508, Pittsburgh, PA 15244
PHONE: 412-788-1500 FAX: 412-787-5960
CONTACT: M. Timothy Lawler, Phd, P.E.
Consulting / Electrical / Mechanical

■ L. ROBERT KIMBALL & ASSOCIATES

415 Moon Clinton Road
Moon Township, PA 15108
PHONE: 262-5400 FAX: 262-3036
CONTACT: Thomas L. Blank, CIH, CSP
Joseph F. Moon, PE
Asbestos Management / Environmental Site Assessments / Indoor Air Quality Lead Based Paint Management Radon Testing-Mitigation Industrial Hygiene-Safety Civil / Site / Structural

■ KONEFAL & COMPANY, INC.

1108 South Braddock Avenue,
Pittsburgh, PA 15218
PHONE: 244-5044 FAX: 244-5045
CONTACT: Stephan V. Konefal, P.E.
Structural

■ LENNON, SMITH, SOULERET ENGINEERING, INC.

846 Fourth Avenue
Coraopolis, PA 15108
PHONE: 264-4400 FAX: 264-1200
CONTACT: Daniel S. Gilligan
Civil / Consulting / Environmental

■ PETER F. LOFTUS DIVISION

Eichleay Engineers Inc., 6585 Penn Avenue
Pittsburgh, PA 15206-4407
PHONE: 363-9000 FAX: 365-3304
CONTACT: Glenn Avick
Civil / Consulting / Electrical / Mechanical Structural / Telecommunications Fire Detection & Protection

■ MAZZA ENGINEERING ASSOCIATES, INC

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CONTACT: Jacqueline K. Mazza
Civil / Consulting / Mechanical / Structural Transportation

■ MEUCCI ENGINEERING, INC.

409 Elk Avenue, Carnegie PA 15106
PHONE: 276-8844 FAX: 276-2960
CONTACT: James B. Fath, P.E.
Consulting / Electrical / Mechanical

■ MURRAY ASSOCIATES, INC.

413 Penn Avenue, Turtle Creek, PA 15145
PHONE: 823-2020 FAX: 824-7302
CONTACT: Debbie Faust
Structural / Civil / Geotechnical Environmental / Testing & Inspection Construction / Consulting

■ POLYTECH, INC.

Three Gateway Center, 12th Floor, East Wing
Pittsburgh, PA 15222
PHONE: 995-1300 FAX: 995-1306
CONTACT: Michael C. Moore
Civil / Consulting / Electrical Mechanical / Structural / Transportation Construction Management

■ RCF ENGINEERS, INC.

Fourth Floor, 209 Sandusky Street
Pittsburgh, PA 15212
PHONE: 231-5500 FAX: 231-6427
CONTACT: Mark S. Wolfgang, P.E., President
Testing & Inspection / Consulting Electrical / Environmental / Mechanical Telecommunications

■ SAI CONSULTING ENGINEERS, INC.

300 Sixth Avenue, Pittsburgh, PA 15222-2571
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The Joint Committee recommends:

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- That *Alternates* be clearly defined and as simple as possible
- That *Alternates* should be listed and selected in sequence of priority

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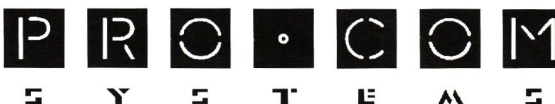
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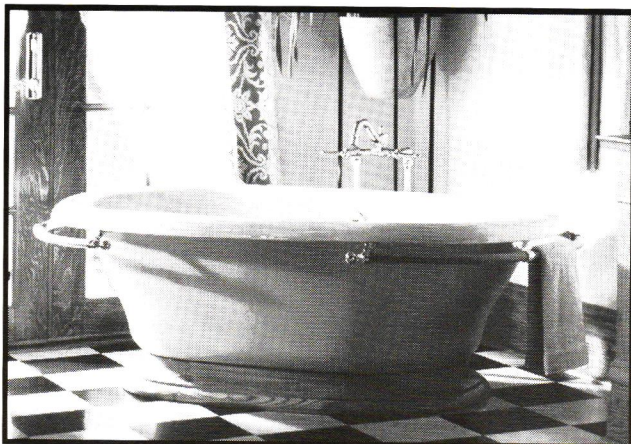
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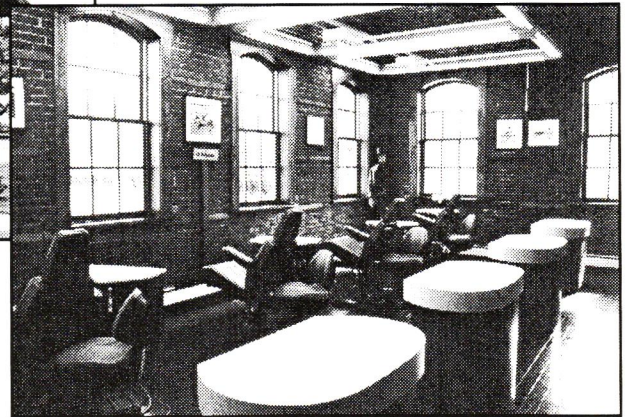
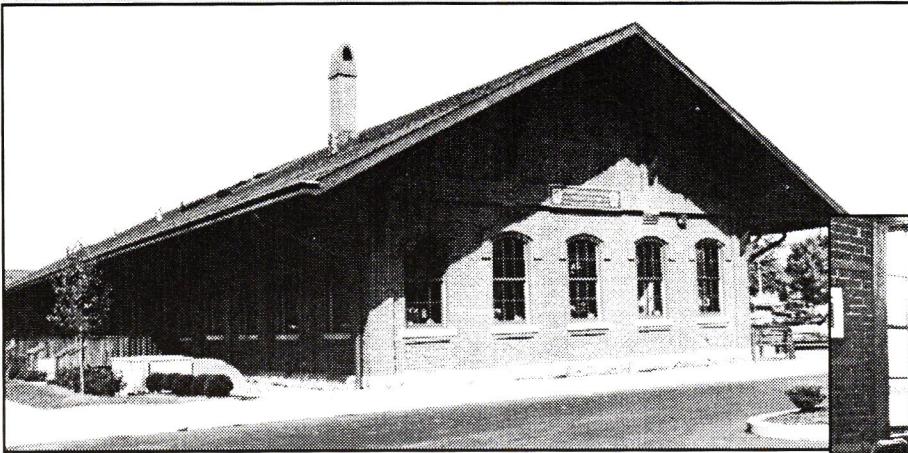
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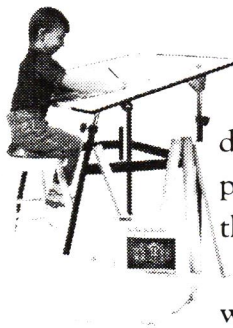
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