DESIGN LIGHTING SYSTEMS FOR HIGHEST EFFICIENCY

The lamp comparison chart below illustrates the efficiency of light sources expressed in lumens per watt, which is the amount of light produced for each watt of electrical energy consumed. As can be seen from the chart, both fluorescent and high intensity discharge lamps (mercury vapor, sodium and metal halide sources) use much less energy to produce light than the incandescent lamp.

Where practical, the use of fluorescent or high intensity discharge lamps in lighting system design, or replacing existing incandescent lighting systems, can substantially reduce energy consumption and still provide the lighting requirements.

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Contents

3  Alden B. Dow Associates, Inc.
12  AIA Establishes New Procedures to Investigate Misconduct Charges
16  Classified Letters

THE MONTHLY BULLETIN IS PUBLISHED BY THE MICHIGAN SOCIETY OF ARCHITECTS TO ADVANCE THE PROFESSION OF ARCHITECTURE IN THE STATE OF MICHIGAN.

Richard Drury
Jack Feagley
Karl H. Greimel
William Jarratt
John Jickling
James Kinville
J. Wesley Olds
Dale Suomela
William Werner

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Alden B. Dow began designing private residences from his Midland, Michigan office in 1932. The office was incorporated in November 1941 and today their clientele includes school boards, governmental groups, universities, hospitals, commercial and industrial projects.

In seeking out creative and responsive architectural, engineering and planning solutions to their various needs — clients become involved in Alden B. Dow's deep running and deeply felt philosophy . . . a philosophy where "facts and human feelings are the basis of quality in all things."

The completed and projected structures represented in the following pages not only exhibit the combined breadth of Dow's comprehensive services — site selection and analysis, research, programming and master planning, design, engineering, cost control, interior furnishings, landscaping, construction management, design-build and more — but they also express the strength Dow Associates' philosophy has given to the physical and functional environments it has created.

Mounted on a plateau and surrounded by undulating berms, the new J. Walter Thompson Building in Dearborn, Michigan's Ford Fairlane complex, uses dramatic placement on an essentially flat site to accentuate the structure and to screen the 240-car parking lot from the view of passing motorists. The strongly panelized exterior harmonizes with the neighboring Fairlane Towers.

The advertising firm's new headquarters features a three-story covered atrium which Dow Associates used to bring exterior exposure to the interior of the building. In addition to expressing the open, creative atmosphere desired by the client, the atrium provides a flexible display area for the agency's services. (Date for completion — December 1974)

(Date for completion — December 1974)
The prime directive of creating a building with as much flexible open space as feasible to accommodate research activities, was accomplished in the addition to the University of Michigan's Institute for Social Research by housing vertical transportation and services in vertical masses structured outside the office and meeting areas.

The facade, of grey insulating glass with color-anodized aluminum tracery, serves to keep the five-story addition to the first phase of the building, open to natural daylight and the surrounding views.

(Projected completion — 1974)
The kernel of the Westwood Village 100-unit complex of one and two-story condominiums was completed in 1973 on this 40-acre site in northwest Midland. Privacy has been assured in the five-unit clusters by arranging terraces, garage and home entries so they are nonadjacent.

Ranging in size from 1,400 to 2,100 sq. ft., units have individual fireplaces and steeply peaked roofs to handle snow loads and relate aesthetically to the vertical lines of the heavily wooded area. Curved beams shield the condominiums from adjacent properties.

The “Tower of Light” emphasizes and illuminates the entrance to Kalamazoo Valley Community College. It was conceived by Dow to represent the learning process and “open-door” admissions policy of this two-year vocationally oriented institution.

Developed around a 50,000 sq. ft. landscaped court, the building is set against a hillside and steps down into two and three stories. The integrated design of the college facilities permits it to double the present size and student capacity without loss of character, identity or scale.

Architects plan to take further advantage of the rolling wooden 187-acre site by creating nature paths for the students.

Before this second building was completed in 1972, a separate smaller on-campus facility, now Redwood Hall, was used to house the college.
Scheduled for completion in December, 1974, the Grand Traverse Performing Arts Center at Interlochen, Michigan, was designed to accommodate the academy's musical curriculum. The poured-in-place concrete structure will be acutely responsive to acoustic needs that range from those of a large orchestra to those of a vocal soloist. The reverberative qualities of the auditorium can be altered, by adjusting the acoustic shell which is an extensive of the visual theme of undulating plaster surfaces used in the reflective wall of ceiling of the auditorium.

The brick and stucco facade of the new University of Michigan's Central Campus recreation facility match the connecting women's pool facility conceived by Dow Associates more than 30 years ago. Prominently placed on a hillside, handball and squash courts, karate and exercise rooms, an indoor track, offices and multi-use areas are housed in this tri-level 98,000 sq. ft. intramural building. A glass monitor provides natural lighting for corridors, and the administrative offices open onto a small terrace with planter boxes on the west side. Construction will begin this summer.

An individualized alternative to the usual office structure was conceived for the University of Michigan's administration building, completed in 1968. The idea of composed order — creating a pleasant unrepeatable relationship — was carried out in the pattern of the windows. No two offices share the same window configuration. Outlined in stone tracery, the grey pivoting glass windows mask the traditional division into a six-floor structure. Behind-the-wall fin radiation heating makes the whole interior wall surface a radiant panel.
Greenhills School, completed in Ann Arbor in 1972, required that the architect's plan promote the informal interaction and exchange of ideas between teachers and students that forms the private school's philosophy. Transportation flows were directed diagonally through corner exits into and out of common areas. These multi-purpose courts can be used for relaxation, informal gathering, workshops or passageways.

A lecture area and sunken library are open to the view of passing students and teachers, while the recessed corners of the commons can be used as offices, small conference rooms or areas where students can set up their own displays.
Midland's Center for the Arts, opened in May 1971, includes facilities designed for its six member organizations incorporating activities in sound, music, light, dance, drama, the visual arts, including motion pictures, sculpture and historical reflections that have engaged the Midland community for nearly a century. The focal point of the Center is the Great Hall of Ideas, which greets visitors at the main entrance with a series of multi-level open rings encompassing a permanent exhibit of the state's total history — from its geological beginning to the technological impact of today.

Visualizing the Center as a place "for the development of human expressions and appreciations," Dow architects designed a geometrically patterned curtain, overhead moving light bridges, multi-use side balconies and a revolving stage for the little theater. The main auditorium is complete with orchestra life, an acoustical shell and a separate stage for theatrical workshops.
Even below-grade offices of Central Michigan University's new three-story 50,000 sq. ft. Health Facility in Mt. Pleasant were given a landscaped view by excavating widely around the lower level. A unique two-story open well in the interior, cuts down isolation of patient rooms because corridors look down into the facility's waiting area.

Concrete ribs serve as sunscreens for windows while the effect is extended to the facade by using a ribbed concrete exterior. The second and third levels cantilever over the first to accommodate the greater program needs of the upper floors. The facility was completed this year.
After a recent study pointed out that up to 50% of a nurse's time was spent "fetching and carrying," this new six-level addition to the Midland Hospital (opening this summer) was designed on a modular unit principal, resulting in self-sufficient entries that rely on a highly sophisticated transportation and communications system. This system eliminates long corridors and incorporates programmed conveyors for the bulk of the hospital's supplies, including drugs, linens, food, paper work and other material.

Supplementing the original structure designed by Dow Associates on a 40-acre heavily wooded site in 1944, the present building houses expanded support services such as radiology, medical records, in-service training space, nursing education and physician's offices.

The hospital was completed in 1974.
AIA Establishes New Procedures to Investigate Misconduct Charges

In an unprecedented action, the board of Directors of The American Institute of Architects voted to establish within the Institute a national committee to investigate allegations of misconduct by architects. If investigation of such allegations warranted, the committee could bring charges of unprofessional conduct before AIA's National Judicial Board, the appropriate state registration board, and/or appropriate legal authorities.

The national inquiry committee, which will consist of 10 to 50 members appointed by the Institute's Board of Directors, will provide a pool from which a panel of three to five members will be selected to investigate specific charges on an ad hoc basis.

The inquiry committee will be charged with investigating matters brought to its attention (whether by complaint or otherwise) that appear to involve unprofessional conduct or violations of AIA's Standards of Ethical Practice involving a major public interest, such as recent allegations of illegal political contributions and kickbacks by architects seeking public contracts. Cases involving failure to conform to registration laws, or violations of criminal statutes committed in relation to the practice of architecture, will also be handled by the committee.

In each case, the panel would be charged with determining whether the matter should be referred to the Institute for consideration under its disciplinary procedures, to the appropriate state registration board, or to legal authorities. If the panel determines that grounds for complaint exist, the inquiry committee would act as complainant in instituting proceedings against the alleged offender.

The impartial inquiry committee, with authority to act as complainant, will provide an alternative to the present procedure which relies upon an individual to bring charges. Because investigations of major public issues may involve lengthy judicial proceedings, individuals could hesitate to bring charges.

Insofar as possible, the panel appointed in each individual case will be drawn from AIA members who live and practice outside the geographical area of the accused, thus insulating them from accusations of self-interest or prejudice.

While the AIA may terminate membership of Institute members found guilty of violating its Standards of Ethical Practice, suspension or revocation of licenses to practice is reserved to the appropriate architectural registration board. In some jurisdictions, registration boards have been hesitant to undertake investigative activities in cases of alleged wrongdoing, because of uncertainty about statutory authority.

Division at U of M

Division of The University of Michigan's College of Architecture and Design into two separate units, a School of Art and a College of Architecture and Urban Planning, was approved Friday (May 17) by the Regents.

The division, to take effect in September, 1974, will coincide with
Leadership takes many forms. But those who exercise it have one thing in common: performance that sets the standard for judging the efforts of others. Glanz & Killian has exercised this kind of leadership since entering the mechanical construction business in 1921. One result has been steady growth—growth which has made Glanz & Killian one of the Midwest's most successful mechanical contractors.

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the completion of a new North Campus building that will provide facilities for the programs in art, architecture and urban planning.

The new administrative arrangement follows the recommendations of a 13-member review committee that included students, faculty and University administrators. The committee was chaired by Dr. A. Geoffrey Norman, director of the U-M's Institute for Environmental Quality.

In recommending creation of the two separate units, the Norman report noted that the evolution of the U-M programs in art on the one hand and architecture and urban planning on the other "has left little common ground" between these disciplines. "The freedom of each area to develop as resources permit and as professional needs change should provide a more propitious setting than the present uneasy competitive coexistence," the report said.

Allan F. Smith, U-M vice-president for academic affairs, noted that the new administrative arrangement will complement plans for a substantial expansion of the number of students and faculty in the architecture and design programs. "One of our major expectations," Smith said, "is that the art faculty will now be able to respond to a large pent-up demand for instruction by the non-art major."

The new School of Art and the College of Architecture and Urban Planning will be housed jointly in an $8.5 million building on Bonisteel Boulevard on the U-M's North Campus. Financed with state funds, the new building can accommodate a combined enrollment of 1,200 students. Current enrollment at the College is over 800.

Architecture courses at the U-M were first offered in 1875 in the College of Literature, Science and the Arts, and were later offered as part of the engineering program. In 1913 the architecture faculty was given control of its own programs of study, and a four-year curriculum in design was added in 1926.

The present Architecture and Design building on Central Campus was constructed in 1927, when student enrollment was less than 400. Four years later the College became an autonomous unit of the University, and in 1946 a master's degree program in planning was added.

At their Friday meeting, the Regents also asked Dr. Norman, as representative of the president and vice-president for academic affairs, "to continue with efforts which would move forward" with three other recommendations in the Norman Report.

One calls for continued study of a possible "wider organizational structuring of units or programs with environmental components or objectives, in order to facilitate interdisciplinary cooperation in instruction and research dealing with the human environment."

The other recommendations call for provisions in the North Campus building for some landscape architecture and urban and regional planning students, and for the two schools to consider joint responsibility, and joint faculty appointments, for the program in interior design.

Procedures were also established for choosing deans of the two schools. Last year Reginald F. Malcolmson, who has been dean of the College of Architecture and Design for 10 years, announced plans to step down from the post on Aug. 31, 1974.
The design of the $3,800,000 school is unique in that a large facility was developed to fit a small 3.4 acre site.

The building is constructed of fireproof masonry and structural steel with brick interior corridors, quarry tile and other special finishes to provide a warm and durable interior.

Because of site restrictions, the central three-story element was designed to house classroom and academic units with the administrative, natural science, vocational education, fine arts and special education facilities on the first level. An open courtyard was provided in the north section to allow an outdoor exposure to the Media Center and for natural light. The Media Center replaces and expands traditional library facilities with the addition of audio and video educational techniques.

Ellis/Naeyaert Associates, Inc. is the architect for the new Lincoln Junior High School, in Warren.

Exploring the Capital

Twenty walking and motoring tours of the nation’s capital, and neighboring areas in Virginia and Maryland, are offered in well written, abundantly illustrated form by four prestigious architects under the title, A Guide to the Architecture of Washington, D.C. (McGraw-Hill, 7.95; soft cover, 5.95).

Authors Warren J. Cox, Hugh Newell Jacobsen, Francis D. Lethbridge, and David R. Rosenthal point out that this new edition of a book originally published in 1965 has been thoroughly revised and expanded. Over one hundred buildings not mentioned in the earlier volume are now described.

“There have been a few deletions because of reappraisal and others to make room for more important new entries,” the authors note. “Of the buildings previously described, ten have been demolished during the past nine years. Of this number, the loss of the National Presbyterian Church of the Covenant at Connecticut Avenue and N Street and the Tuckerman house at 16th and I Streets were most regrettable.”

Designed to aid the tourist as well as the professional architect — indeed, everyone interested in our nation’s capital — this book is a pictorial history that crosses the city and the centuries, leading the visitor down streets first planned by Pierre L’Enfant in 1791, and into buildings designed by the finest architects of yesterday and today.

Richard C. Frank of Ann Arbor was elected to the College of Fellows during the AIA Convention in Washington, D.C.

Frank, a member of the firm Johnson, Johnson, & Roy is a member of the Board of the National Trust for Historic Preservation.

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Monthly Bulletin / 15
Letters

Dear Sirs:

The Association of German Architects (BDA) has informed me that you would be able to assist me in finding a position as an architect in your state. I have, therefore, enclosed a brief resume of my career.

I am thirty years old and married to an American. I earned my first degree in Construction Engineering at the Hamburg School of Engineering. Following that I studied two years at the University of Hamburg, where I earned my second degree, Diplom Ingenieur Architekt. I worked three years in a Swedish architectural office and then three years in a German office, where I specialised in the design and construction of schools, hospitals, office and apartment buildings.

The American universities Harvard, Yale, and Columbia all assured me that my Diplom Ingenieur Architekt degree is the equivalent of an M.Arch. degree. Due to my residence in Sweden, I speak fluent Swedish and English.

If it is possible, would you please send me the names and addresses of employment agencies dealing with architects, so that I may also contact them. I cannot find them here in Germany.

In order to work as a fully qualified architect in Michigan, I must first pass the Licensing Examination. Would you please send me the address of the Licensing Bureau, where I can request information pertaining to examination dates as well as the necessary application forms.

Thank you very much for your help.

Sincerely, Per Ipsen
Diplom Ingenieur Architekt

Classified

Director, Campus Planning and Facilities Development

Director, Campus Planning and Facilities Development is responsible for the direction and coordination of the activities related to the programming and site planning of new facilities and the development of long-term space needs for the University. The preparation and up-dating of the University’s long-term development plan is also a function of the position.

Qualifications include graduation from a five year college or university with major course work in Architecture, Engineering or a Graduate degree in Planning or Public Administration. Considerable experience in Physical Planning is also necessary.

Please respond by resume only. Responses must include salary history or expectations. Personnel Office, Wayne State University, Detroit, Michigan 48202.
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