

A pair of condominium townhouses, one 1-storey and one 2-storey, designed by Henry Fliess specially for exhibition at the National Home Show which opens its nine-day run next weekend. The houses were deliberately oversized to cope with an estimated 10,000-plus visitors every day – a requirement which also "affected plan organization to some degree," says Fliess. Reinforced modular prefabricated brick panels are used for the exterior walls.

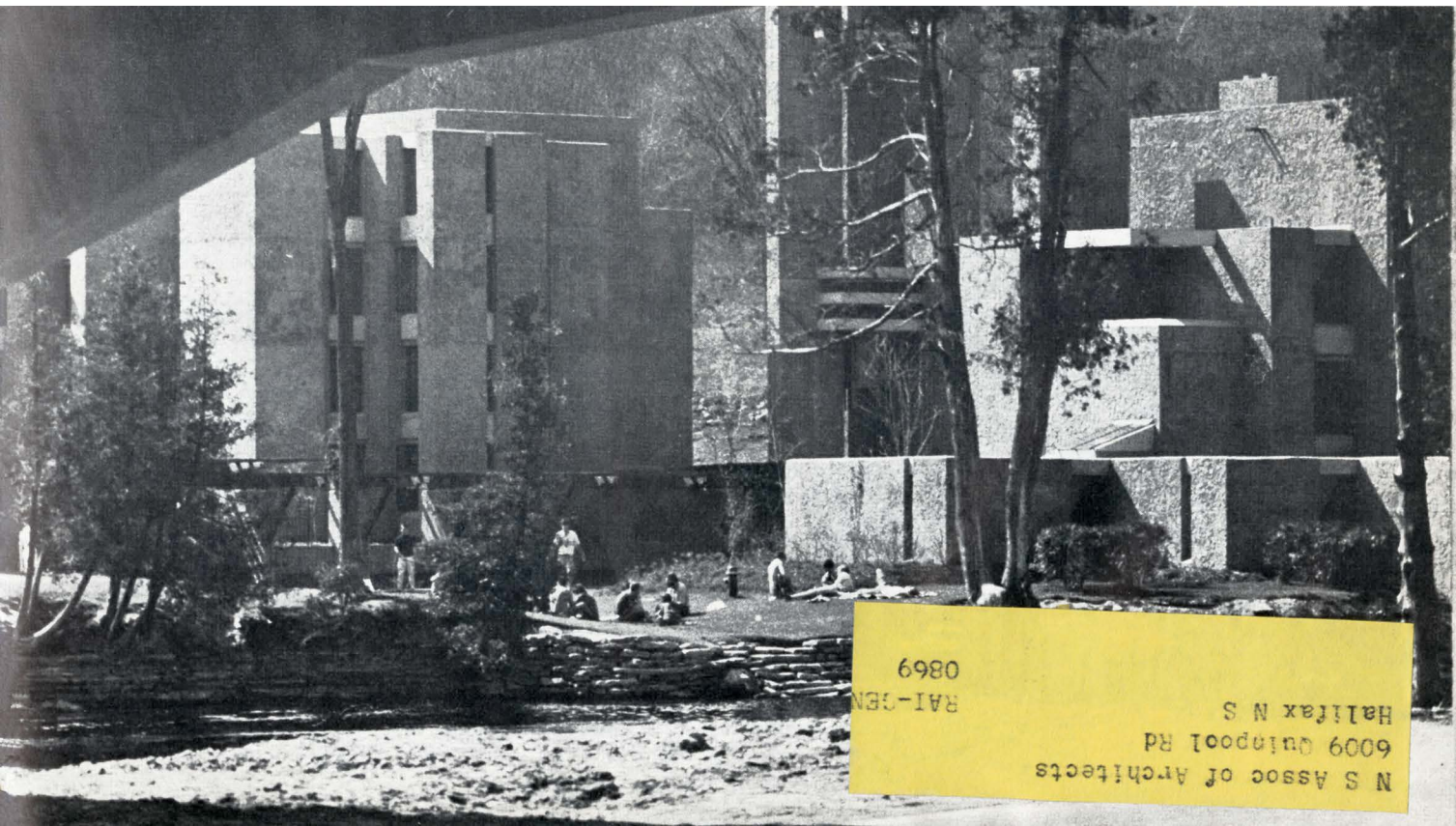


Architecture Canada

NEWSMAGAZINE

Published every two weeks by RAIC/IRAC March 30, 1970

Champlain College at Trent University was one of four buildings there by Toronto architect Ron Thom to receive awards at the International College and University Conference in Atlantic City this month. A total of seven awards were made from among hundreds of educational buildings on exhibition.



N S Assoc of Architects
6009 Quinpool Rd
Halifax N S
RAI-GEN
0869

BUSINESS

Vancouver architect sees bad implications of tight money

Vancouver architect Randle Iredale is concerned with the effect of government money policies on the future of the construction industry.



Describing the general slackness of business in Vancouver he says that his firm, like others, recently has had to let several staff members go.

He comments: "The use of tight money and the monetary policy in controlling inflation has a disastrous effect on the construction industry. Having to dismantle a group of skilled people assembled over the years to work as a team is destructive both to the resources of the firm and to the individuals involved. This is a loss of a people resource for Canada."

DESIGN

Architectural aerodynamics

The relationship between architecture, aerodynamics and related fields was the subject of a two-day conference held in London, Eng., last month.

Participating architect Peter Goering of Toronto reports "the meeting

was a rare demonstration of getting architects and scientists together to help each other. Architects are just now beginning to look at the effect of structures on the environment and could benefit from information already known on the subject." He says scientists are coming up with answers to such problems as air currents at entrances to tall buildings.



Subjects covered included the social significance of airflow problems, wind effects on buildings and other structures, the effect of buildings on local wind, and dispersal of airborne effluents.

Mr. Goering, with University of Toronto scientist Prof. B. Etkin, presented a paper on dynamic structures (air curtain walls and roofs) (*A/C*, 3/69).

CAMPUS PLANNING

Canadians to speak at U. of Illinois conference

Canadian architects Colin Davidson of Montreal, and Colin Vaughan of Toronto, will be among the speakers at the Sixth North American Conference on Campus Planning and College Building Design to be held April 19-23 at the University of

Illinois. Their talk on design concepts in the building system approach to architecture will be presented as part of a discussion on Building as a Science.

Two other major topics are scheduled: Planning for an Urban Campus; and Science Buildings.

For more information, write: Department of Architecture, University of Illinois, Urbana.

PLANIFICATION

Stages d'études en France

L'Association pour l'organisation des stages en France organise une session d'études sur le thème "Développement régional 1970".

Ce stage, d'une durée de 11 semaines, se déroulera du 28 septembre au 11 décembre 1970. Il a pour objet d'exposer les conceptions françaises sur les problèmes de planification et de développement en matière d'urbanisation et d'aménagement foncier, et de présenter les méthodes de travail des spécialistes français en ce domaine.

Des préstages de formation linguistique, d'un à deux mois, sont prévus en faveur des candidats dont les connaissances de langue seraient insuffisantes.

Tous les participants bénéficieront d'une bourse allant de \$330 à \$506 selon leur expérience. Age: de 28 à 50 ans.

On adresse les candidatures au Ministère des affaires intergouvernementales, Direction de la coopération technique, Hôtel du gouvernement, Québec. Date limite: 1er avril 1970.

TECHNOLOGY

Design of concrete shells

Design and construction of concrete thin shells will be discussed in detail at the annual convention of the American Concrete Institute in New York City, April 16/17. Other concurrent sessions will cover structural lightweight concrete, research on plain and reinforced concrete, and low density concrete.

Details from: ACI, Box 4754, Redford Station, Detroit 48219.

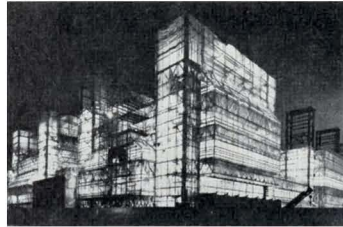
Steel construction

Buildings of 250 storeys and more will be erected in North America in the not-too-distant future. That's the prediction of New York consulting engineer Leslie E. Robertson. He was in Toronto last month to attend a structural engineering conference at the University of Toronto.

Robertson is working on the 110-storey World Trade Center in New York, currently the world's tallest building. He says the problems with such high buildings are "not technological, economic or functional - today's knowledge encompasses the answers to such problems - they are social problems... the biggest problem is planning for people."

At the same conference, Dr. Peter Bernard, a Toronto consulting engineer, said "steel floor systems are the most important structural component in buildings... the whole future of steel frame buildings may depend on the successful development and marketing of new concepts in composite floor systems."

Seminar on steel construction to be held in 19 locations



Looking as if already completed by night, construction of McMaster University's huge \$72-million Health Sciences Centre continued through last winter under 600,000 sq. ft. of polyethylene sheeting.

Analysis of new building concepts will form part of this year's Building With Steel cross-Canada seminars, to be sponsored by Stelco. London, Ontario, is the location of the first seminar on March 31; the last will be held in Saskatoon, May 14.

Stelco experts will analyze various new Canadian, US and British structures including the World Trade Center (world's tallest building which has a structural perimeter wall plus novel floor system), the McMaster University Health Science Centre (with its walk-through structural system designed for flexibility and expansion), the BOAC Hangar for Jumbo Jets (world's largest tubular space frame), and the West Coast Transmission Building (cable-suspended office building). The systems approach to building design will be covered by a new movie.

For details of the schedule, contact: R. R. Dickson, Stelco, Hamilton.

Seminar on sealants

Building Sealants and Computer Design is the subject of a one-day program to be held as part of the US Building Research Institute's spring conferences in Washington, DC, April 15.

Experts in the field of sealants will present and discuss the newest concepts in the use of computers as related to joint design, stress analysis, expected performance, vibration, wind loading and the development of specifications. The use of new polysulfide and urethane polymers as bases for sealants will be discussed.

This program is to be conducted concurrently with the major BRI conference topic: Construction Management - Competition for Control.

For details, write: BRI, 2101 Constitution Ave., Washington, DC, 20418.

RAIC

Canada offered as locale for '71 IUA Congress

The RAIC is issuing an invitation to the International Union of Architects to hold a Congress in Montreal in the next decade. It would be the first meeting in Canada of the Union. International congresses are held every two years. The last, in 1969, was in Buenos Aires.

Honorary Fellows named

Four Honorary Fellowships will be granted by RAIC at the Annual Assembly in Winnipeg, May 13-16. The recipients will be Ramon Corona Martin of Mexico City, President of the International Union of Architects; Peter Sheppard, President of the Royal Institute of British Architects; Rex Whitaker Allan, President of the American Institute of Architects; and Joaquin Alvarez Ordonez, President of La Sociedad de Arquitectos Mexicanos.

HOUSING

190,000 starts forecast for '70

With 1969's housing total now firm at 210,415, the guessing game continues for this year.

At the National House Builders Association convention in Niagara Falls last month, 1970 forecasts ranged all the way from 180,000 to 200,000 - with the consensus just about the middle of that range.

Ottawa's official forecast continues to be "close to 200,000." But it looked increasingly unlikely as preliminary figures showed February housing construction at the lowest level in three years.



Architecture Canada is published every two weeks by the 5th Company (Greedy de Pencier Publications Ltd.) for the Royal Architectural Institute of Canada / Institut Royal d'Architecture du Canada. The Company also publishes Architecture Canada Journal twice a year, and Architecture Canada Directory once a year. RAIC/IRAC office 151 Slater Street, Ottawa 4. William N. Greer, MRAIC, chairman RAIC publications board; Walter B. Bowker, managing editor of publications. Subscriptions are \$10 a year.

Architecture Canada editorial, circulation and advertising offices are at 56 Esplanade St. E., Toronto 1 416-364-3333.

5th Company editorial committee: Annabel Slaughter, Patrick Hallstone, Ron Butler, Fiona Mee, Janeva Van Buren, Michael de Pencier.

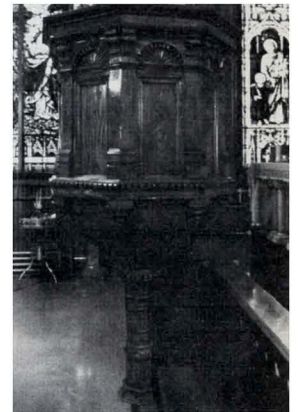
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534 volume 47

CCAB audited circulation 5,455 Postage paid at Toronto at third (or fourth) class rate - Permit No. C52



R. Second residence, 1906 (demolished 1968), H. D. Johnson architect.



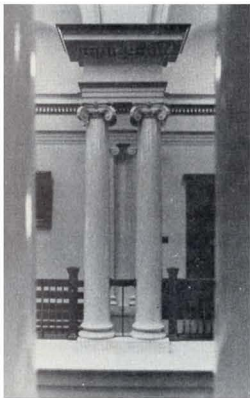
St. Joachim Church, circa 1900, Francis X. Deggendorfer architect.

Putting Edmonton architecture on the record

For the past year, Peter Arends and Dennis Person have been busy compiling an architectural history of Edmonton. The ambitious project grew out of a research assignment carried out by architectural students at the Northern Alberta Institute of Technology where Arends and Person are instructors. Along the way, the two men have assembled a mammoth collection of photographs, original sketches, working drawings, and biographical material. Measured drawings have been made of several buildings. Out of this welter of material emerges a remarkably complete picture of Edmonton architecture over the past 75 years, well sprinkled with some fascinating sidelights.

For instance, the Edmonton architectural scene has had its share of extravagant personalities — like Allen M. Jeffers who came from New York to serve as chief architect for the Alberta Department of Public Works, then moved to Hollywood to design movie sets. Says Person: "One interesting aspect of many previous Edmonton architects is their interrelationship and successions. For example, the present firm of Howard and Robert Bouey has been traced back through 16 interdependent predecessor firms to 1892, when it was founded by William Edmiston, who designed the city's original post office and became its mayor in 1898."

An objective of the history is to relate the early architecture of Edmonton to the broad scope of Canadian architecture of the early 20th century. And Person and Arends hope their work may become "a small part of a large mosaic of recorded Canadian architectural history".



Court House, 1908, Allen M. Jeffers architect.



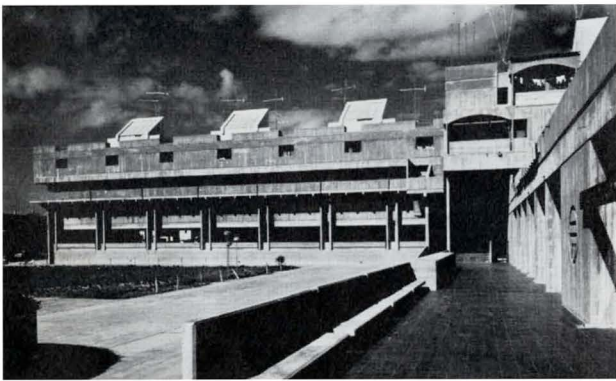
Residence, circa 1905, James E. Wise architect.



Hostel for immigrants



Beersheba's first high-rise apartment



Town centre megastructure

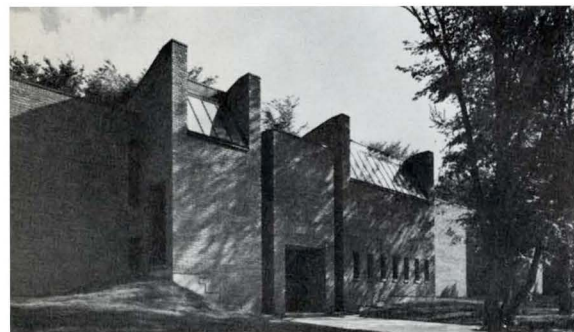


Sparks Street mall

Five awards for excellence in architectural design in 1969 were made by OAA's Ottawa chapter. The winners: Balharrie, Helmer, Gibson, for the permanent Sparks Street mall; Schoeler, Heaton, Harbor, Menendez, for an office building for the Public Service Alliance of Canada; McLean and MacPhadyen, for the environmental laboratories at Carleton University; Murray and Murray, for the St. Patrick Oblate Fathers' residence, and for St. Mary's Home, Ogilvie Road. The jury were Jean Sutherland Boggs, Ray Affleck and Victor Prus.

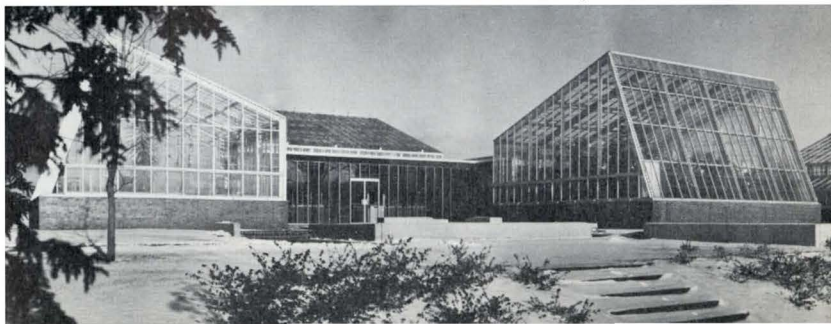


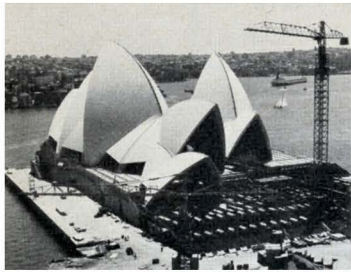
PSA office building



Oblate Fathers' residence

Carleton University laboratories





Story of an ill-starred building

The Sydney Opera House Affair, by Michael Baume. Thomas Nelson & Sons (Canada) Ltd., Don Mills, Ontario. 172 pages, 1967.

This is a fascinating book for the general reader who is interested in architecture and a must for the architect.

The author attempts to trace the story of the Sydney Opera House from 1957, the year Joern Utzon, an obscure Danish architect, won first prize for his design, until his resignation from the job in February 1966.

The drama started with the award of first prize to Utzon. His entry failed to comply with four of the competition requirements, which might not have mattered except that there was some doubt as to whether or not the winning design could be built at all. The New South Wales government at the time was determined to start building immediately and so without waiting for detailed drawings to be completed, work on the foundations went ahead.

What followed is history. The original estimate of the cost of \$7.2 million has increased to \$85 million. The original completion date of 1963 has been extended numerous times — it is now 1972. The Minister of Public Works, the Honorable D. Hughes, admitted that the cost could have been reduced by \$20 million if drawings and details had been completed before construction started.

The author is scrupulous in his presentation of the facts. He does not attempt to take sides although Utzon does appear in an unflattering role.

The book contains some excellent photographs of the progress of the job. There is also a chapter by Peter Hall who succeeded Joern Utzon as design architect. The final pages of the book contain letters and other documents written by Utzon and others connected with the work. *Douglas M. McLeod*

Noted Briefly:

Functional Planning of General Hospitals, edited by Alden B. Mills for the American Ass'n of Hospital Consultants. McGraw-Hill, 1969. 353 pp. \$20.80.

A collection of articles by the association's membership. Of general

interest to designers of hospitals. *Building Research 1968, NRC 10832, Division of Building Research, National Research Council, Ottawa. 108 pp. \$1.00.*

Building Science and Roofing Design by M. C. Baker. Technical Paper N. 308. Division of Building Research, National Research Council, Ottawa. 6 pp. 10c.

LETTERS

An appeal for better graphics

Sirs:

As a member of the RAIC and the SWAC, I would like to express my considerable dissatisfaction with the range of standard documents used by the industry at the present time.

To be quite blunt, I think that they might be placed in the same category, in terms of presentation and organization, as the free literature put out by the Feed and Seed Industry in the barn raising era of the 1940's. I appeal to Mr. Briggs, as chairman of the Canadian Joint Committee on Construction Documents and Procedures, to do all in his power to rectify this situation.

All disciplines of this industry should be conscious of the need for order and logic. The standard documents do nothing to promote such thinking. May I suggest that the Committee bring to its ranks a member who specializes in layout and graphics, who would bring clarity and readability to its forms and guides. I believe it is generally accepted that careful and considerate design can make all the difference in transmitting or gathering information when dealing with a wide variety of attitudes and intellects.

I am sure I am amongst many when I say that I am prepared to help in any way if only to have the opportunity to comment on initial drafts as they appear. These should be made public so that suggestions and criticisms may be received and sifted in contribution to a better set of standard documents.

Management in the Industry, related to both design and construction, is badly in need of improvement and development. Regulations, guide studies, forms and procedures are the tools of such management. We should have the very best in order to be fully effective. Furthermore, if the national bodies of the various groups and organizations will produce evidence of co-ordinated logic, then the minor groups will be stimulated to act in a similar manner right down the line to the general benefit of the Industry as a whole.

Peter Dobbing, chairman, Ottawa Chapter, SWAC

Better communication

Sirs:

... May I suggest that the pious hope that you express that A/C

should be thought of as the link between all people in Canada interested in the environment would require, first, a much more vigorous dialogue between the RAIC and the other environmental professions than is evident at present, and, second, would require that A/C should become a bilingual publication. In that context, would you be kind enough to communicate in the French language when writing to my faculty.

Guy Desbarats, Université de Montréal

On répond:

En général, notre policie est de publier en français toutes les nouvelles reçues en français, et de préparer nous-mêmes des articles en français sur les sujets d'une importance particulière aux architectes francophones.

La rédaction

POLLUTION

NSAA offers to fight for clean air

The Nova Scotia Association of Architects came out against pollution at its annual meeting in Chester, NS, last month.

The association declared itself unanimously "in favor of firmer controls over all types of pollution . . . it offers free professional assistance to any and all voluntary groups working toward better pollution control".

SEMINARS

Construction cost seminar

The *Canadian Architect* magazine and two other business publications are sponsoring a two-day seminar on construction cost control at the Inn On The Park, Toronto, April 14/15. The seminar will be conducted by McKee, Berger, Mansueto Inc., a New York firm of management consultants to the construction industry which specializes in estimating and project cost control.

Registration fee is \$150. For details, write: Syd Cohen, 1450 Don Mills Rd., Don Mills, Ont.

AWARDS

Galvanizing design contest

Cominco's Galvanizing Design Awards 1970 program is now open for entries from architects and others. Any specifiers or users of hot-dip galvanized products in North America may enter.

The awards program was established by Cominco seven years ago to recognize "significant applications which contribute to the wider usage of hot-dip galvanizing of fabricated products, or to the improvement of hot-dip galvanizing techniques". Products marketed or

developed during the 12-month period ending June 30, 1970, are eligible for this year's competition, which closes July 15. The award is worth \$1,000.

For details, write: Cominco's Marketing Services Dept. AA, 630 Dorchester W., Montreal 101.

RESEARCH

Bibliography of urbanology

A new bibliography of 1200 documents and 200 studies dealing with the Canadian urban scene has been published by the Canadian Council on Urban and Regional Research. It's a 160-page supplement to CCURR's *Urban and Regional References*.

The listing covers such aspects of urban affairs as physical environment, housing, economics, transportation, planning and renewal. The documents, most of which appeared in 1968, are indexed by author and geographically.

Also available are three other supplements to the original volume published in 1964. The 1968 supplement is \$4.00, all others \$3.00. Write: CCURR, Suite 511, 151 Slater St., Ottawa.

Housing the elderly

Quebec architect C. Ross Anderson has received a CMHC grant to undertake research in Senior Citizens' residences. Purpose of the study is to make a systematic analysis of existing buildings in Quebec, to improve information available to clients, architects and builders in this field.

Hospital construction costs

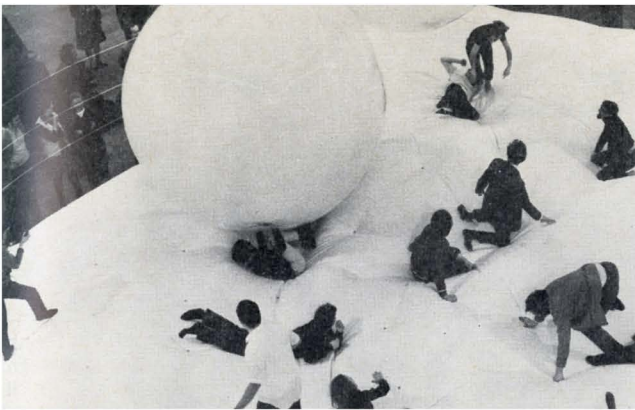
Hospital Construction Cost Registry Report 1968, containing cost data for all new general hospitals started in Canada in 1968, is available free, in French or English, from the Health Facilities Design Division, Department of National Health and Welfare, Tunney's Pasture, Ottawa.

SYSTEMS BUILDING

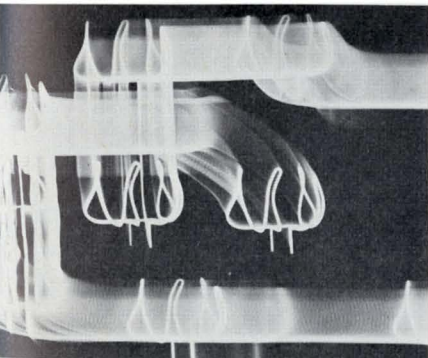
School workshop discusses SEF

The Toronto SEF (Study of Educational Facilities) system again (*A/C, 3/16 /70*) came under fire this month at a school design workshop in Windsor, Ont. Toronto architect Frank Nicol termed the exteriors of the eleven SEF buildings now underway "environmental pollution and a bad scene". Mr. Nicol argued that SEF "grew out of the educators' need to manipulate space, and to combat the built-in obsolescence of previous schools . . . not to save money".

Hugh Vallery, superintendent of academic studies for the Metro Toronto School Board, suggested the educator should be on the de-



Giant billiards could prove to be more exciting than the regulation game. New Yorkers will have a chance to find out from May 15th to June 7th when the Museum of Contemporary Craft features the work of the Austrian architect-sculptor-designers Haus Rucker Co. "Giant Billiard", an inflatable pneumatic 50' x 50' structure, will be part of HRC's show of their newest work in living units, furniture, clothing, and group interaction.



Turning on in Toronto and New York

Toronto and New York art scenes have been brightened this month by the opening of two new electric art galleries. In Toronto, sign business operators Sam and Jack Markle have opened "The More or Less Great Electric Gallery" in the basement of the Flatiron building at 49 Wellington E. The gallery will display the neon pop sculpture they have been producing for the past few years (above). The latest gallery in New York is Automation House, an electric service station for artists to plug into. The first show there is an exhibition of electric environments. Also on the electric circuit: a new fluorescent show by artist Michael Hayden which will open at Gallery Moos in Toronto, in April.

sign team through the working drawings. "Formerly the educator has been the weakest link in the chain. He hasn't known what he wants in a school."

Other architects on the program of this 10th workshop were R. D. Schoales of the Board of Education in London; R. B. Johnson of Toronto; and J. C. Couchman of Windsor. Stan Orłowski, chief research architect for the Ontario Department of Education's School Planning and Research section, which sponsored the conference, was chairman.

The dawn of industrialization?

"The era of industrialization of housing has dawned." That is, according to a report prepared for The Producers' Council by Washington, D.C., housing consultant John M. Dickerman.

To meet the challenges presented by population growth, the report predicts that within the next ten years prefabricators and mobile home manufacturers will diversify into modules or "boxes," component and subsystem manufacturing plants will increase in number, and larger entrepreneurs will tend to encompass greater proportions of the total building process.

The Producers' Council is an organization of major US building products manufacturers. It is currently conducting a series of conferences to examine the role of the manufacturer in the "emerging era of industrialization."

Concrete construction seminars now underway

The first seminars of a series on the use of precast, prestressed concrete components for housing were held March 16th through 19th in four prairie cities.

The seminars co-sponsored by the Canadian Prestressed Concrete Institute and the Portland Cement Association covered such topics as Industrialized Building Systems, Housing in Northern Europe and the Bearing-Wall Diaphragm System for Housing.

Dates of similar seminars for eastern and western Canada will be announced in April.

ADVERTISING

Canada Cement wins 1969 Shepherd Award

Canada Cement has been honored by the Association of Industrial Advertising for its 1969 print advertising campaign.

The full-color inserts, which have appeared in *Architecture Canada*, won recognition in the construction materials category of the annual awards program. Featured in the advertisements were photographs of concrete structures with credits

given to individuals and companies.

Architect Ray T. Affleck of Montreal was among the jury members.

NEW PROJECTS

Tennis courts will top a carpark at the University of Alberta. Landscaping, benches and walkways will complete the rooftop area. The structure, to be located north of the university's engineering centre, Phase I, will provide 872 parking stalls with plug-in. The 60-degree angle stalls will be located on four sloped levels. Half of the garage has traffic moving up and the other half moving down, thus enabling users to hunt for stalls. Prime consultant is J. A. Vander-giessen of Read Jones Christoffersen Ltd.

A "library for the computer age" is under construction in Toronto. Data processing, computerization and mechanical book retrieval will all be a part of the \$42-million, 6,000-person-capacity research library for the University of Toronto. A computer will control the building's environment and assist with housekeeping chores, ordering, reports and fiscal control. Architects are Mathers and Haldenby.

CLASSIFIED ADS

\$2 per line for RAIC members. All others, \$3 a line.

Positions Vacant

Comptroller of Design and Construction. The Niagara South Board of Education has immediate need of a capable person to look after its capital building program. He will be responsible to the Superintendent of Plant for co-ordinating the design and construction of all building projects to ensure that the finished structure meets all teaching requirements. This involves working closely with the academic staff to establish user requirements and develop building programs with the project architects and other consultants to incorporate them in the design.

Applicants should be registered architects with an extensive background in administration and co-ordination of all phases of planning and construction of the building project.

Reply in writing giving complete details of education, experience and salary required to:

Niagara South Board of Education, K. J. Perkins, Superintendent of Plant, 250 Thorold Road, West, Welland, Ontario.

F. J. Rutland R. A. McLeod
Chairman Director of Education

Change of Address

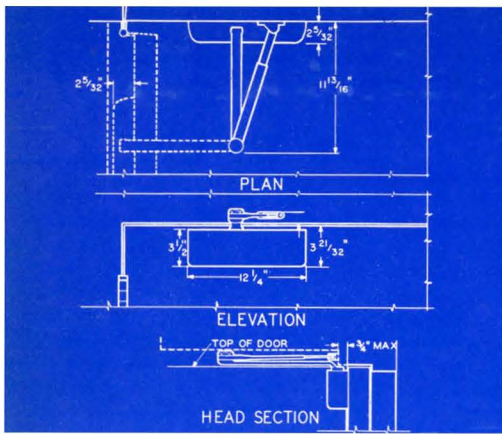
Morris Charney, MRAIC, CUQ, architect and planning consultant, announces a change of address to 488 Lansdowne Ave., Montreal 217, 514-937-5100.

Library seeks old magazines

The Library of the National Gallery of Canada needs early issues of the RAIC Journal to complete its collection and would be interested in hearing from anyone who would supply copies of the years prior to 1947, that is, volumes 1 to 23.

Order books by mail

Books reviewed in *Architecture Canada* (and most other architectural books published in Europe or North America) can be ordered through the Architecture Canada Book Service, 56 Esplanade, Toronto 215.



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Zion Heights Junior High School, Architect: James A. Murray, FRAIC