

Designed for Arctic waters this clear plastic habitat called "Igloo" should be ready for testing this spring. It's the latest project of Joseph MacInnis, Canada's diving doctor, who in his spare time takes Pierre Trudeau skin-diving. It's costing \$15,000, including donations from Chemacryl, who are providing the plastic, Alcoa — providing the aluminum spars, and King Plastics, who are blowing the sphere and providing technical support. The underwater "house", MacInnis' second, will be used as a base for divers where they can remain sheltered for 8-10 hours.

Architecture Canada

NEWSMAGAZINE

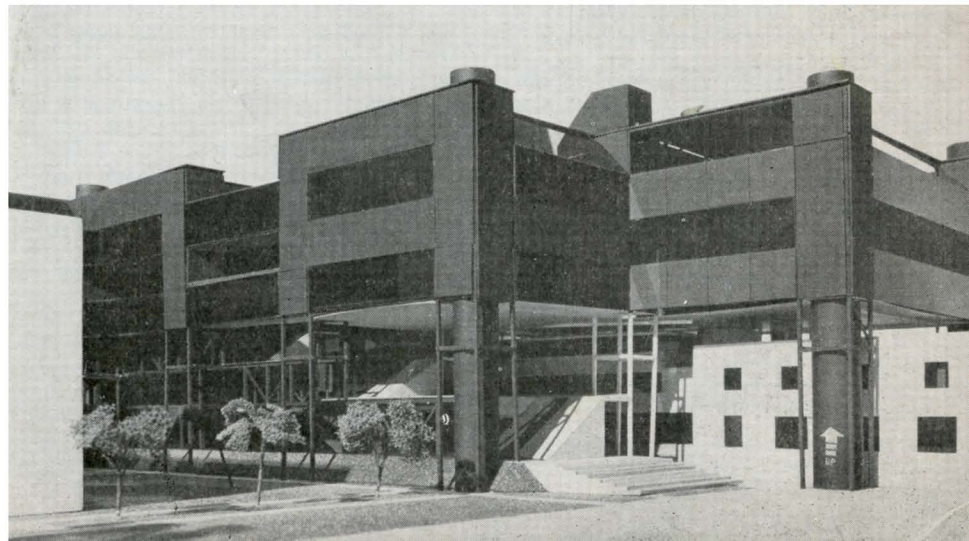
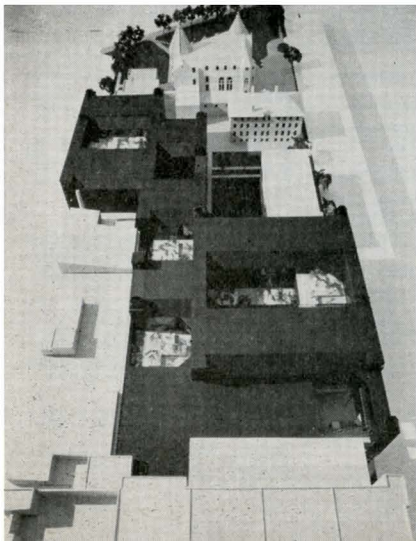
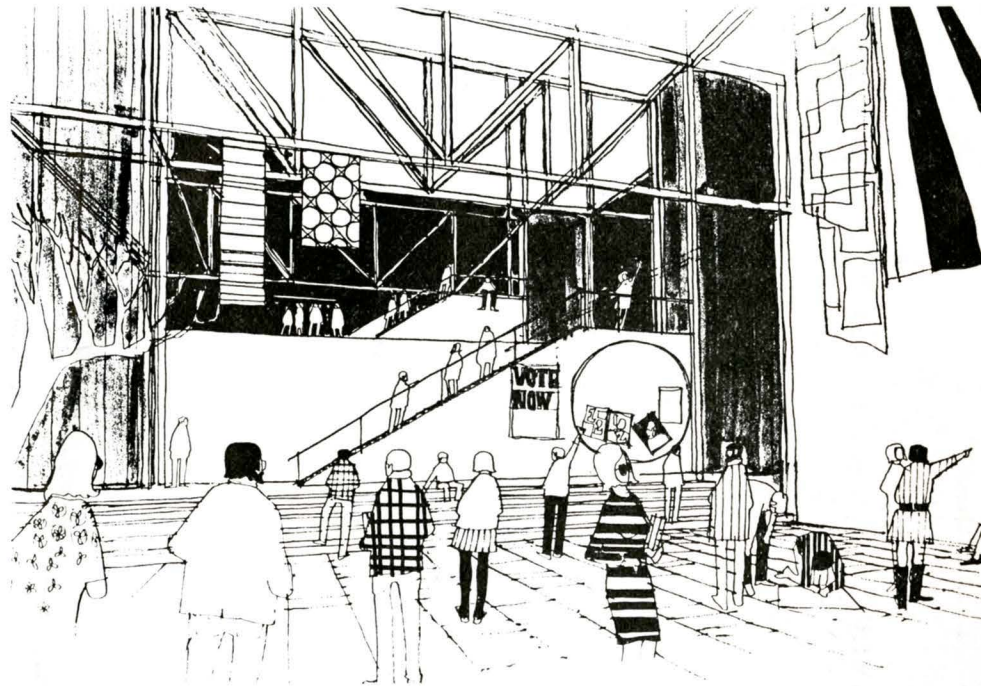
Published every two weeks by RAIC/IRAC December 7, 1970

Expansion '70 — megastructure for an urban campus

Winnipeg architects Moody Moore Duncan Rattray Peters Searle and Christie are enlarging the accommodation at the University of Winnipeg's small urban campus by filling in the spaces between existing buildings. Their new "buildings" span over and grow between existing structures, to create an integrated megastructure. The project, which will cost \$8 million, including renovations, will provide a multi-media library, plus academic and teaching space. Construction began this summer and will be completed by September '71.

Exposed tubular steel trusses a full storey high are being used throughout; precast hollow-core slabs form the floor structure. Three double banks of escalators will rise through the central pedestrian street to a major student circulation and activity area on the fourth level.

For two other campus developments using a similar approach, see pages 4 and 5.



LETTERS

Nationality requirements and architectural registration

Sirs:

We have just seen the articles (*A/C 28/9/70*) about the possible introduction of a citizenship requirement into the Ontario Registration Act. If it helps to form a view, so far as I know in the Commonwealth as a whole, Nigeria, Quebec and now possibly Ontario will be the only Acts with citizenship requirement. Some Acts stipulate residence, but most confine themselves to the qualities and qualifications required for professional service.

Some of the US State Registration bodies have a US Citizenship requirement but when the reciprocity agreement between the UK Registration Council and the US National Council of Architectural Registration Boards was negotiated, it was said that the tendency was to drop the practice where it occurred and that it was only in a minority of US States that it survived.

*T. C. Colchester, Secretary,
Commonwealth Association of
Architects*

Editors' note:

*It's not "go" yet for Ontario.
The situation is still under review
by the OAA and the Attorney
General's department of the provincial
government.*

PEOPLE

Vancouver architect Peter Oberlander, director of the School of Community and Regional Planning at the University of British Columbia, has been named secretary of the federal government's proposed ministry for urban affairs and housing. The ministry has not yet been established but legislation for its formation, with several other ministries of state, is expected to be introduced in Parliament soon. The status of secretary would be equivalent to that of a deputy head of a government department. Dr. Oberlander is a native of Vienna.

Dr. Robert Legget, Ottawa, retired director of the Division of Building Research of the National Research Council, is one of two Canadians to be awarded medals this year by the Engineering Institute of Canada for outstanding achievement. With Francois Rousseau of Montreal, Dr. Legget was presented the EIC's Julien Smith Medal for Achievement in the Development of Canada. Mr. Rousseau was honored for his role in the construction of hydro-electric plants in Quebec and his contribution to Expo 67; Dr. Legget, who earlier this year was similarly honored by the American Society for Testing and Materials (*A/C 20/7/70*), for his part in establishing a national building code for Canada.

DIED

Forsey Page, 1885-1970

Funeral services were held in Toronto November 24 for Forsey Page,

FRAIC, FRIBA, ARCA, former senior partner in the architectural firm of Page & Steele.

Mr. Page was born in Toronto in 1885. In 1911, in conjunction with Stan Warrington, he formed Page & Warrington, Architects, with which he was associated until 1924. After being wounded in World War I, Mr. Page taught at Duke University in North Carolina. From 1924 to 1926, Mr. Page had his own architectural practice. In 1926 he, with Harland Steele, formed the firm Page & Steele, Architects, of which he was senior partner until his retirement in 1963. After that time, he continued in an active capacity as a consultant.

Mr. Page was past president of the OAA (1934-35); past president, RAIC (1943-44); chancellor, College of Fellows (1952-55) and an academician of the Royal Canadian Academy.

COMPETITIONS

Contemporary arts centre, Paris

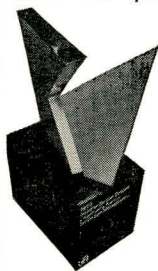
An international competition for the design of a contemporary arts centre for Paris, France is to be launched by the end of the year. It will be sponsored by the Municipal Council of Paris and is a result of an idea by George Pompidou when he was Council President. Deadline for receipt of completed entries is to be July, 1971. Full details will be published when available.

AWARDS

Design management

The first National Design Council and Federal Department of Industry, Trade and Commerce award for management contribution to good design has gone to Standard Desk Ltd., of Montreal.

The awards program instigated earlier this year (known as the



National Design Council Chairman's Award for Design Management) is unique in that it recognizes the contribution of management toward the cause of good design practice. The only other award that is similar is the Royal Society of Arts Presidential Awards for Design Management, administered by the Council of Industrial Design in England.

Standard Desk was chosen as the first recipient of the award by a selection committee which judged a number of business enterprises on the integration and application of good design into their products, packaging, exhibitions, rolling stock, promotional material, and other tangible aspects of management's activity. Standard Desk president George Portnoff received earlier this fall a citation and specially commissioned sculpture by Montreal artist Gord Smith.

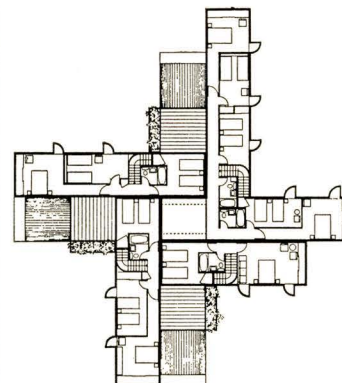
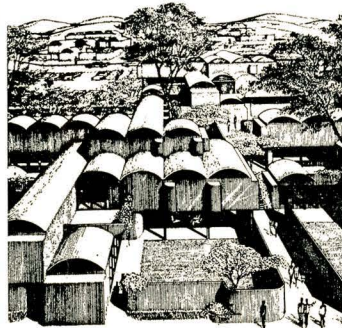
International steel awards

Entry forms are now available for the 1970-71 Design in Steel Awards Program sponsored by the American Iron and Steel Institute. A total of 28 awards will be made for engineering, design and art. Some of the product categories include educational equipment, furniture, transportation; structural categories include high rise construction, housing, low rise construction and public works.

Entry forms, which must be post-marked no later than January 19, 1971, are available from the Iron and Steel Institute, 201 East 42nd St., New York, New York 10017.

HOUSING

20th century brick



The idea of using mobile home units as the basic element of housing has been toyed with by a number of architects and manufacturers recently. Although many adaptations of the idea are being used for construction today (*A/C 28/9/70*) the idea of using specially adapted production-line mobile home units fabricated by a trailer manufacturer has never got past the conceptual stage. Until now.

Nearing completion in New Haven, Conn. is a unique complex of 333 townhouse-apartments designed by Paul Rudolph and fabricated by Coastal Trailer Co. Apartments, each consisting of two to three modules (depending on the number of bedrooms), are clustered on a 15-acre site so that each has its own personal outdoor space and individual entrance. Modules, constructed of wood, are 12 feet wide and 36 to 60 feet in length. A concrete fire wall separates units. Module cost is \$10.75 per sq. ft., including freight, total: \$17, approximately. Units will sell from \$16,000 to \$29,000.

Profit and loss

"It may be pointless to lament the fact that the building industry maximizes its profit and that it minimizes its risks by providing tried and true designs which sold in the past. This is the nature of any commercial enterprise," said Toronto architect Alex Benedek at a recent Ontario conference on concrete building. He blamed instead the fact that those responsible for the nation's housing policies do not have enough foresight.

Mr. Benedek also questioned whether housing should be treated as a stock market commodity. With the value of shares directly related to profits or the potential for future profits, he pointed out, the market responds best to the short term profit potential.

TRANSPORTATION

Aero-trains for Ontario?

Ontario could become the first place in the world to have operational air-cushioned trains for commuters.

The provincial government has been watching the progress of aero train experiments in France for over a year now and, says Deputy Highways Minister A. T. McNab, the trains could be the answer to transporting large numbers of people (up to 20,000 an hour) over short distances in highly populated areas in the province.

Japan as well as France is also considering aero trains but Ontario could still be first to have the new type of railroad operational, says McNab.

Aero trains, powered by either turbo or electric engines, float along



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*5th Company editorial committee:
Annabel Slaight, Patrick Hailstone,
Ron Butler, Janeva Van Buren,
Michael de Pencier.*

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PHOTO BY STAN HARWOOD, COURTESY MISSISSAUGA TIMES

Eastern Construction guaranteed the price and completion date of Sherway Gardens, before it was fully designed!

Eastern Construction has built so many shopping complexes that they can actually provide a guaranteed upset price and completion date, without working drawings.

And that's just what they did for The Rouse Company, owners and developers of the new Sherway Gardens at Hwy. 27 and the Queen Elizabeth Way in Metro Toronto.

In the early design stage Eastern was put on the team with the owners and their architects, James A. Murray and Henry Fliess, to help provide definite cost and delivery objectives.

Co-operation for a project of

this scope is vital, as Sherway is not just one project but 123... 123 differently designed stores, including supermarkets and department stores.

It's not only a major construction job, it's a major management project as well. And it takes the combined expertise and experience of a senior general contractor – like Eastern Construction – to handle it! To bond it, to build it on time and to build it within the budget.

To this project, Eastern Construction brought 20 years of experience as Canada's largest

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If you are thinking about building, investigate the "Eastern Method" – the only construction management method that provides guaranteed cost and delivery.

Eastern is in the construction business, with the emphasis on business.

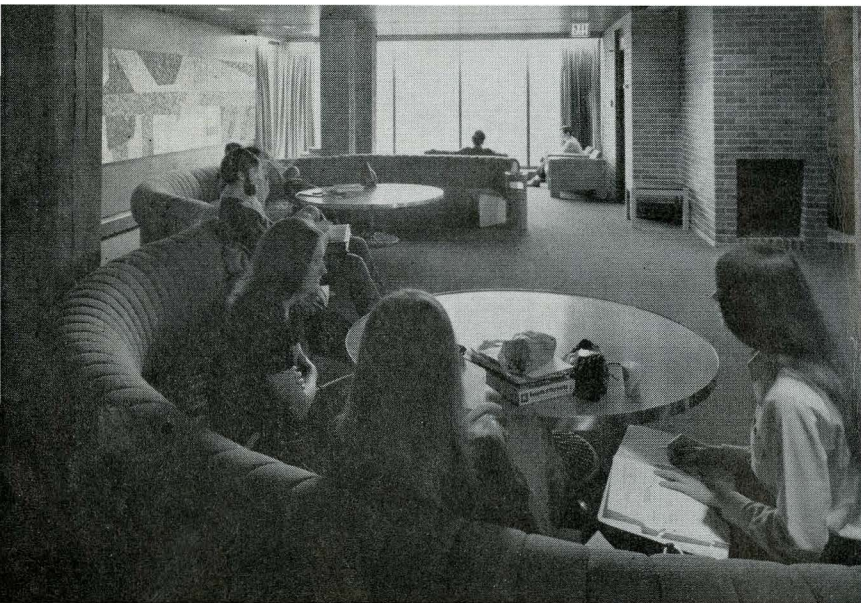


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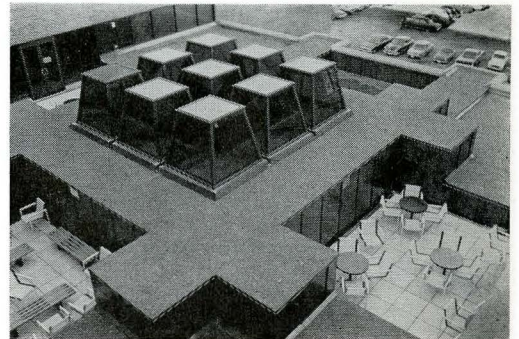
Two University Centres for Ottawa . . .



Carleton

Carleton University recently opened this \$3.7-million student and faculty activity centre at the heart of its campus. Easily accessible to both pedestrians and vehicles, the building, fragmented and sculptural, straddles a 30-ft. drop between the campus' upper and lower levels. Designed to be a focal point of activity for all members of the university "family", the centre incorporates the existing Commons Building, and links it with the Tory Science Building next door and also the multi-level tunnel network.

Architects Robbie Vaughan and Williams and Z. Matthew Stankiewicz wanted to create a warm and relaxed interior "to stimulate association and encourage enjoyment of leisure activities". Toronto architect Janis Kravis, principal of Karelia Studios, helped them accomplish this. Marimekko banners help enliven interiors as do an electronic light mural by Gerald Gladstone and a mosaic by R. York Wilson.



a cushion of air about ¾" thick at a top speed of 200 mph. In climates like Canada's they would operate most efficiently up off the ground. Rails would be supported by trestles about 28' high. Estimated cost is about \$700,000 a mile, including land, equipment and trestle construction. The government sees them for Toronto linking the airport and suburbs with downtown and for Ottawa as the main means of heavy transportation.

RESEARCH

Nuclear fallout shelters

Montreal architects Paul-H Lapointe and Edmond Koch have completed a study, the first of its kind for Canada, of community fallout shelters.

Commissioned by the Emergency Measures Organization of the Department of National Defence, Lapointe and Koch (who studied fallout shelter analysis at Pennsylvania State University) have detailed how citizens of Granby, Quebec can protect themselves in event of nuclear attack. Granby, they say, was arbitrarily chosen for the pilot

study because of its manageable size and because it would have an hour to prepare itself before receiving fallout from a direct hit on Montreal.

The basis of the study is people organization—how to move people in "best patterns to get them sheltered in the shortest possible time". People, they say, can be protected from fallout radiation by putting either mass or distance between themselves and the particles, thus "if one were in the centre of a tall concrete building he would be protected to a degree which might well save his life".

The study assumes that a lead time of one hour would be available, so that, although Lapointe and Koch's movement patterns and suggestions are specifically worked out for Granby, they could be used as guidelines for other cities similarly situated near major centres.

Details have not yet been released by EMO.

PROJECTS

Vancouver architects Toby, Russell, Buckwell and Associates have been

hired as part of a consultant team for a proposed Pollution Control Centre for Australia's capital city, Canberra. This is the latest in a series of similar such jobs for the firm in Canada, the US and Australia. Pollution Control Centre is the phrase now preferred for a sewage treatment plant and Toby, Russell, Buckwell's first involvement in this area was with the San Francisco consulting engineering firm Brown and Caldwell on the Iona Island and Lions Gate Treatment Plant projects in Vancouver. The Canberra Pollution Control Centre is to be located in a planned recreational area adjacent to the city.

Architects Caron, Juneau, Bique and Baril have designed a \$24-million, five-building complex for the University of Quebec at Trois Rivières. The buildings, all of concrete structure, will house classrooms and teacher offices, a media centre, labs and sports and cultural facilities. An enclosed pedestrian walkway lined by boutiques, snack bars and cinemas and a road for cars and buses will run through the centre of the complex. Construction

is expected to start later this fall.

MISCELLANY

. . . The first major publication of the Art Gallery of Ontario, *Art Gallery of Ontario: The Canadian Collection*, available in bookstores this month at \$14.95. It comprises the complete collection of the Canadian paintings, drawings, prints and sculpture acquired by the Art Gallery of Ontario before June 30, 1967. The documentation is arranged alphabetically by artist; 404 are represented by 1,553 works, comprising 909 paintings and watercolours; 297 drawings and pastels; 279 prints and 68 sculptures.

. . . Practical problems, such as lack of time for research, testing and negotiating new materials with local authorities were among the greatest reasons for choosing concrete for the Ontario Science Centre, its architect, Raymond Moriyama, Toronto, told delegates of an Ontario concrete conference last month. Other reasons included the fact that "its timeless quality seemed meaningful as it helped to express the past and its ties with today".

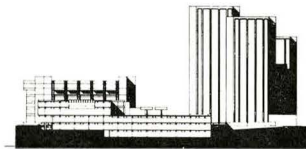
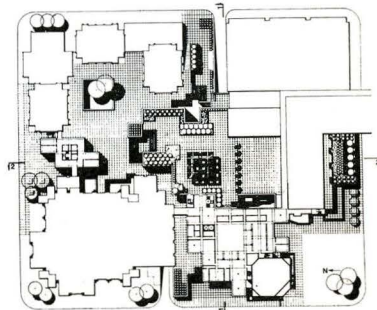


University of Ottawa

Also in Ottawa, this time at the University of Ottawa, planning is underway for another student activity building. It, too, will be the central node of the campus traffic network, but this one will physically link together all central core buildings with a plaza level 6-ft. above grade level and an enclosed pedestrian street, to be known as the Overpass, at 1½ storeys.

The Centre, now in the final design stage, will be constructed in two phases. It will, say architects Papineau Gérin-Lajoie and Le Blanc of Montreal, become the focal point of "vibrant student activity".

There will be five levels. In addition to the Plaza and Overpass will be a basement, games area and central kitchen; a mall for cultural, social and commercial activities 6 ft. below street level and Overpass 1 for student clubs and administration areas.



... Instant old English atmosphere is one of the most recent commodities to be marketed in North America. A firm that claims to have been in the beer equipment business since 1614 happily announces it has solved the problem of shortage of original old beams and panelling for pubs. It uses a moulding technique to make glass-fibre replicas indistinguishable from originals even down to adze marks, weathering and woodworm marks. The first package-deal pub for North America was air freighted from London to Calgary where it now rests at the base of the Husky Tower. Plastic pubs for plastic people?

SEMINARS

Professional development

The Faculty of Environmental Studies at York University is underway with a series of "professional development seminars" for practitioners in the environmental professions.

The first of the series, designed to maintain communication between the academic activities of the Faculty and the working professions, was held last week. Its topic: Systems

Analysis in the Environmental Professions.

Next, slated for February, is Political Decentralization and Local Community Control, director Prof. M. Brownstone of York; and Ecology—a Dimension for the Environmental Professions, director Prof. R. S. Dorney of the University of Waterloo, to be held in April.

For further information contact Colin MacAndrews, Assistant Dean, Faculty of Environmental Studies, York University, Downsview, Ont.

BUILDING INDUSTRY

RAIC in joint presentation to federal cabinet

RAIC president Gordon Arnott last week took part in the first-ever joint meeting between senior executives of building industry associations and the federal cabinet*. Prime Minister Trudeau chaired the meeting, which also included Jean-Luc Pepin, Edgar J. Benson, C. M. Drury, Arthur Laing, J. A. Richardson, and R. K. Andras.

The industry's greatest single need is to develop a more stable growth rate, said the brief, prepared by the

Canadian Construction Association on behalf of the group. And the government should not go on using building as an economic regulator.

Arnott stressed that the design professions "represent the advance guard of the industry, and we need lead time to carry out our work".

* The others: R. G. Saunders, Canadian Construction Association; Pierre Demers, Association of Consulting Engineers of Canada; S. Eric Johnson, National House Builders Association; A. W. Cluff, Specification Writers Association of Canada; Jack Cochran, Construction Industry Development Council (see second story).

Government attention to problems urged

One group, in addition to the PCC (see above), urging government attention to industry problems, is the 35-member Construction Industry Development Council. Formed a year ago by the Department of Industry, Trade and Commerce for industry-government dialogue on economic and technological matters (*A/C*, 16/2/70), the council, at its most recent meeting in Ottawa, unanimously expressed the opinion that the cyclical nature of the construction industry is its most pressing

single problem.

Council chairman Jack Cochran, president of Domtar Construction Materials, urges greater government appreciation of the economic importance of the construction industry and a greater sense of urgency in helping solve its problems.

"Greater co-ordination between governments, labor and management is one major way to bring about a stability to our industry that will enable more realistic policy-planning over longer term periods to take place," Cochran says.

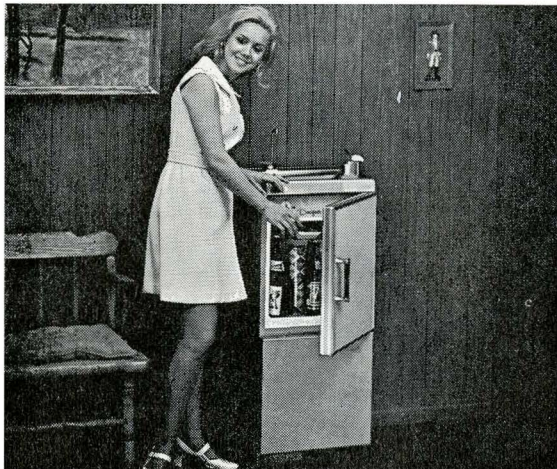
The council, which includes ten RAIC members, concurs that industry ups and downs inhibit development and retention of skills, stifle research, have a restraining effect on related education and training.

CLASSIFIED

Office space available

Space ideal for architects' office is available in downtown Toronto warehouse building in St. Lawrence Centre area. \$2-\$3 per foot. Air-conditioned. 1,000-5,000 feet. 12-foot ceilings and skylights. Ample parking. Phone 366-9729.

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Preference will be given to applicants with design and construction experience related to buildings.

Initial salary on appointment will depend upon qualifications.

Apply giving complete details of education and experience to the Employment Officer, National Research Council, Ottawa 7. In reply please quote BR-70-16.

OTTAWA, CANADA, NATIONAL CAPITAL COMMISSION

PLANNER — \$13,178 — \$14,975

Degree in applied sciences plus planning qualification. At least five years' experience in responsible position enabling applicant to carry out a wide range of planning work, including land use analysis and feasibility studies. Ability to analyze alternatives and to write concise reports essential. Knowledge of French desirable.

PLANNER — \$10,486 — \$11,917

Degree in architecture or landscape architecture plus planning qualification. To assist in the preparation of plans and programs related to Federal Government building development in the National Capital. Knowledge of French desirable.

Apply to: D. L. McDonald, A/Assistant General Manager, Planning & Design, National Capital Commission, 48 Rideau Street, Ottawa, Ontario, Canada.

UNIVERSITY OF HONG KONG — LECTURESHIPS AND ASSISTANT LECTURESHIP IN ARCHITECTURE

Applications are invited for the following posts in the Department of Architecture:

- Post A** Lecturer to undertake the duties of a Studio Master.
- Post B** Lecturer to teach a three-year laboratory based course in Building Materials and to assist in studio teaching.
- Post C** Assistant Lecturer to undertake duties of an Assistant Studio Master.

Applicants should possess qualifications acceptable for membership of the R.I.B.A. or the equivalent in their own countries; lecturers should possess substantially more professional experience than the minimum required for membership. Some teaching experience is an advantage.

Duties will vary from time to time according to the needs of the Department but all applicants should be capable of carrying out the duties of Studio Master, who also contribute to the formal teaching of building techniques when required to teach one of the first three years of the course (specialist staff provide the formal teaching in building materials, service and structures). An ability to offer a short course in a specialized subject would be an advantage; one such course at the moment is landscape design. Where student numbers are large, two studio masters are assigned to each year of the course.

Applicants are required to indicate in their replies the post for which they are applying.

Annual salaries (superannuable) [approximate sterling equivalents at current rate of exchange in brackets] are:

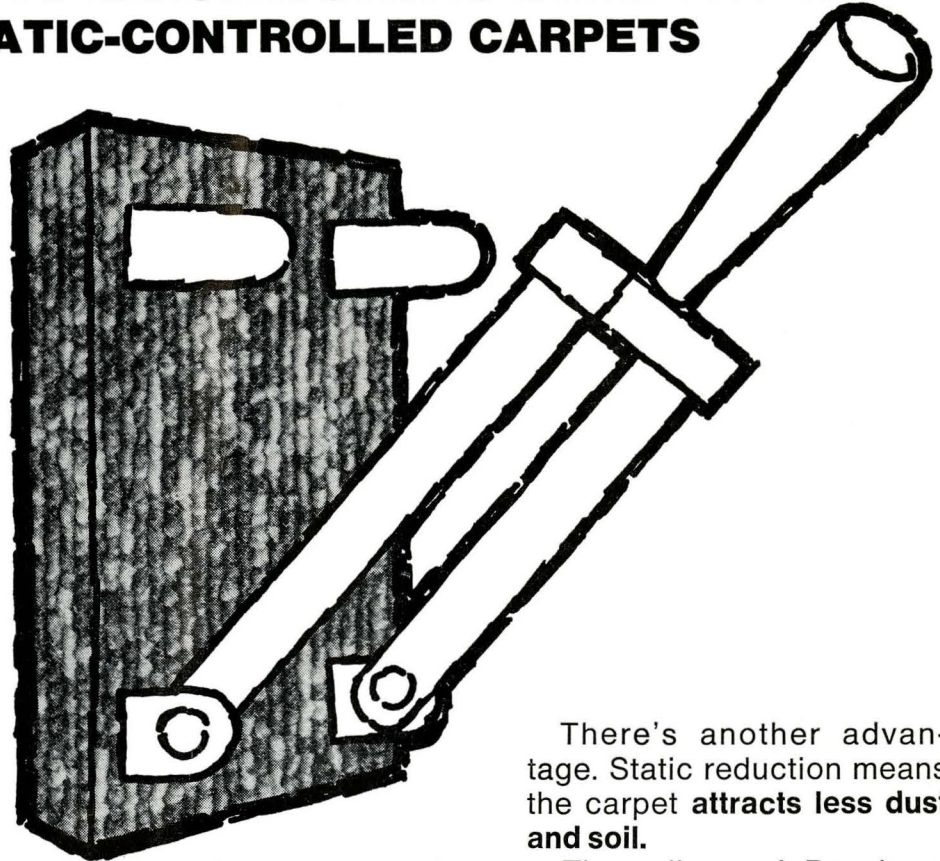
Lecturer:	HK\$34,368—\$55,272 [£2,362 to £3,799] (man)
	HK\$31,080—\$55,272 [£2,136 to £3,799] (woman)
Assistant Lecturer:	HK\$23,568—\$28,464 [\$1,620 to £1,956] (man)
	HK\$19,560—\$24,600 [£1,344 to £1,691] (woman)

Further particulars and application forms may be obtained from the Secretary-General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF, or the Registrar, University of Hong Kong.

Closing date for applications is **31 January 1971**.

Royaloom pulls the switch

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* Brunson by Brunswick Corporation. Shown in Royaloom for the first time at the National Industrial Design Show, Toronto, Nov. 12, 1970.

** Unel is a trademark of Union Carbide Canada Ltd.

There's another advantage. Static reduction means the carpet **attracts less dust and soil.**

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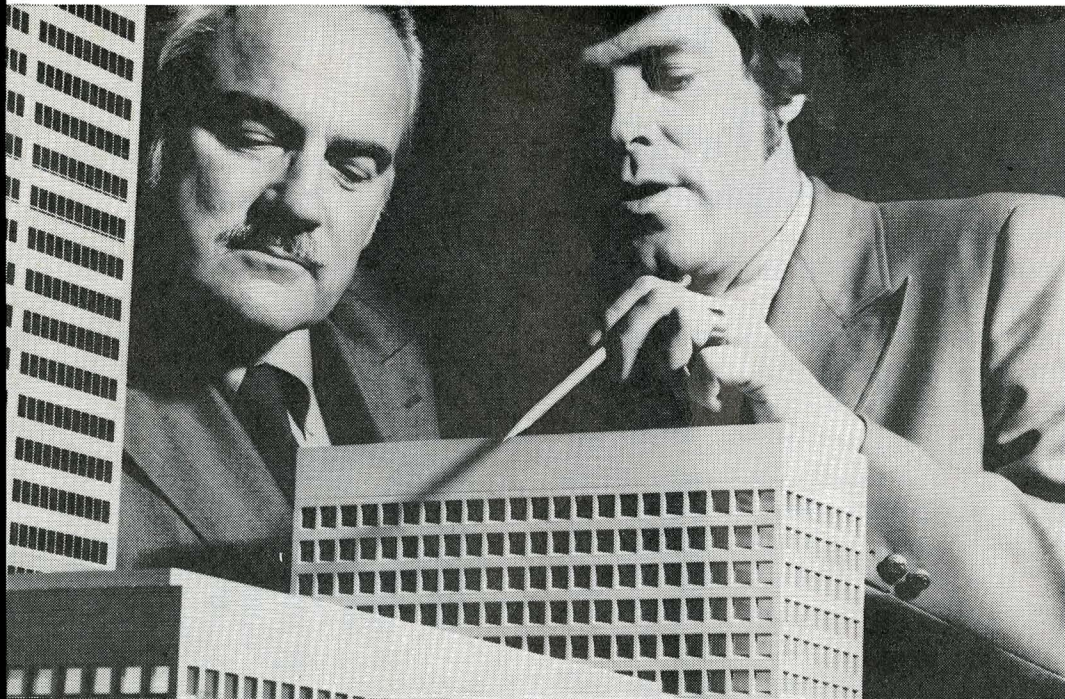
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