



### Jacobs raps expressway plan

Toronto's controversial new expressway (a lot of people want it stopped before it is completed) caught the scorn of noted urban critic Jane Jacobs in her first public lectures since coming to live in Toronto two years ago. Said Mrs. Jacobs: "We could have car manufacturers, oil companies, land speculators and luxury apartment developers do our planning. They could do it for free, and it would be just the same as we have now. We would save a lot of money that way."

### 1970 Massey Medals Competition

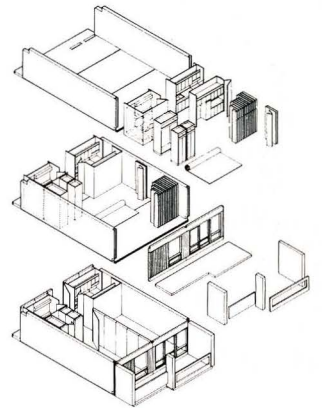
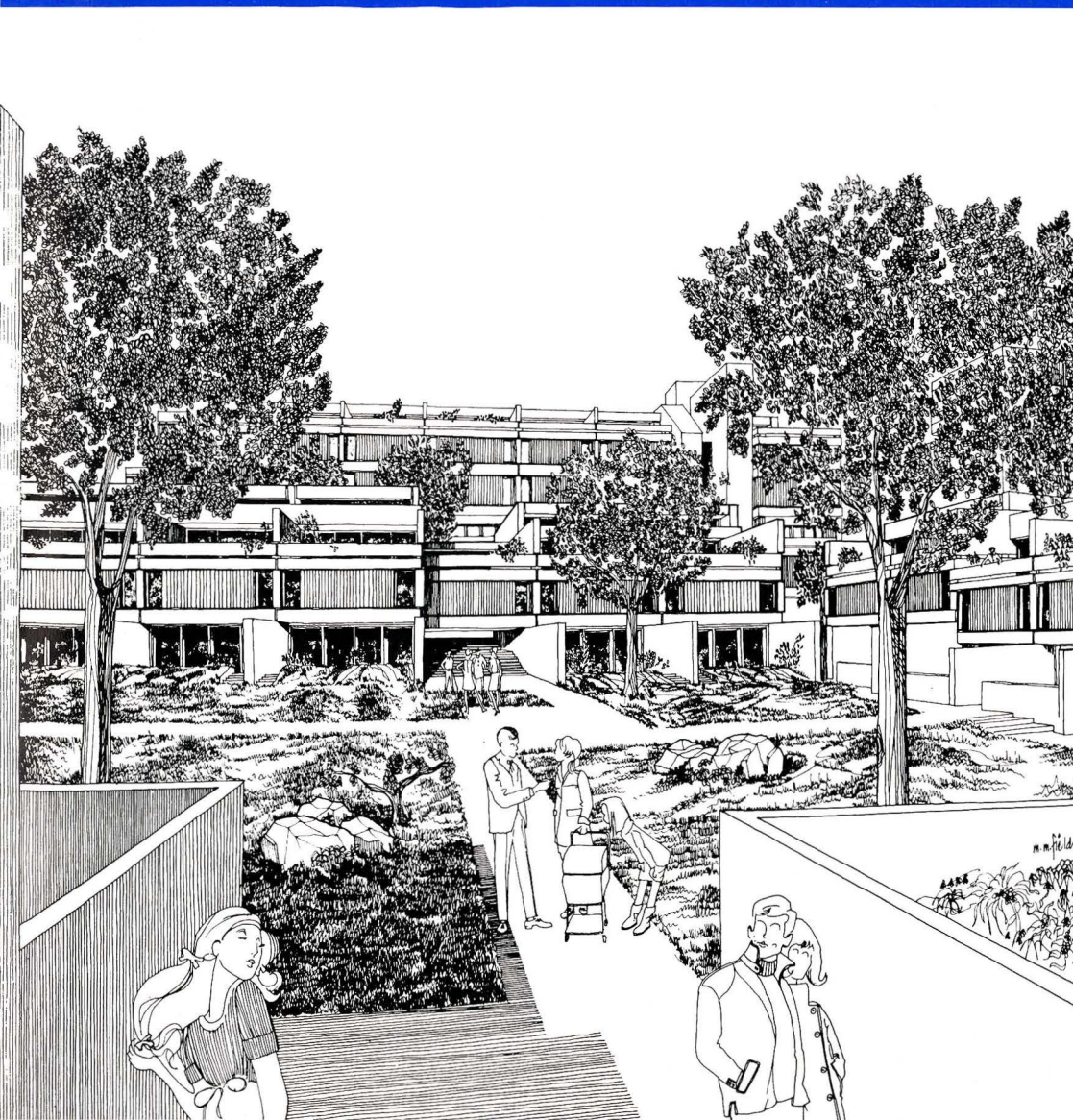
Up to 20 silver Massey Medals will be awarded this year for excellence in Canadian architecture. The awards were last made in 1967, when 424 entries were received and 25 medals presented.



# Architecture Canada

NEWSMAGAZINE

Published every two weeks by RAIC/IRAC February 16, 1970



### Montreal firm in HUD finals

The Montreal-based joint venture company Descan/Concordia is one of 37 finalists selected from 650 international corporations competing for contract awards in the US government's "Operation Breakthrough" program. It is the only non-American firm in the final competition sponsored by the Department of Housing and Urban Development (HUD). Architect Philip David Bobrow is a principal of Descan/Concordia. Twenty finalists will be awarded contracts to build in eight US centres a total of approximately 1,500 federally assisted prototype units ranging from single family homes to high rise apartments. The proposal of the Descan/Concordia is for a factory produced reinforced concrete panel system. The firms have also worked out a management system to determine the most effective use of land.

## NEW FORMAT

Architecture Canada appears in a new dress this month

*Architecture Canada* has been re-designed to meet both the original objectives and subsequent criticism of its previous format.

The Royal Architectural Institute as a service to its members across Canada will now publish a news-magazine, a semi-annual journal and a directory.

*Architecture Canada Newsmagazine*, of which this is the first issue, will be a fortnightly newsletter to keep architects up-to-date on developments of interest to the profession. It will be concerned with the architect both in his role as designer of buildings and creator of environment, and as community leader in matters relating to the visual arts. It will report the business, as well as the aesthetics of building.

The idea of this is to give the busy architect a concise brightly written summary of what's going on.

*Architecture Canada Journal* will publish as a complementary publication twice a year. Its purpose will be to act as the publication of record — of what is significant, both visually and in the written and/or spoken word, in the world of architecture in Canada. These semi-annual volumes will strive for excellence in writing, design, typography, colour, photography and printing, to record and review the achievements of Canada's architects. As handsome "showpieces" of the profession, they will be sold to libraries and through booksellers.

*Architecture Canada Directory*, formerly known as ADA, will be published in August, and will include the names and addresses of all practicing architects, consulting engineers, specification writers and other groups, as well as the building construction index (BCI) and other reference material.

The new publications will be published by the RAIC and the 5th Company, a Toronto publishing group headed by Greey de Pencier Publications Ltd.

Architecture Canada newsmagazine is published every two weeks by the Royal Architectural Institute of Canada / l'Institut Royal d'Architecture du Canada. The Institute also publishes *Architecture Canada Journal* twice a year, and *Architecture Canada Directory* once a year. RAIC/IRAC office 151 Slater Street, Ottawa 4. Walter B. Bowker, RAIC managing editor of publications.

Subscriptions are \$10 a year.

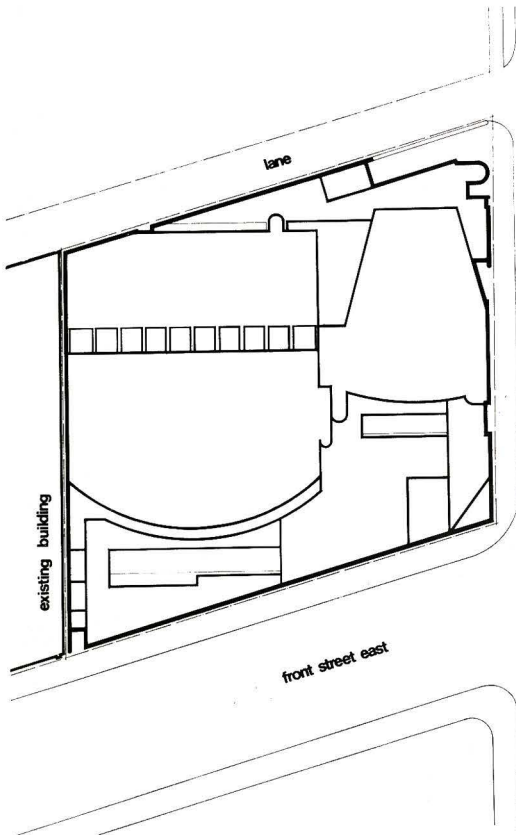
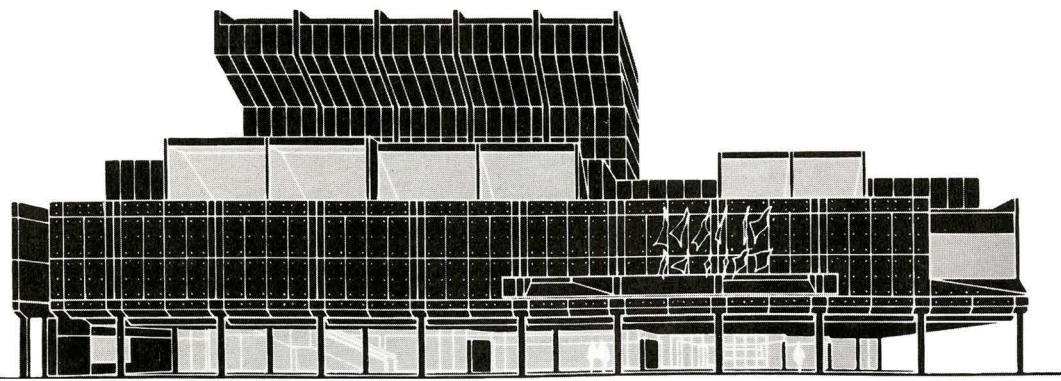
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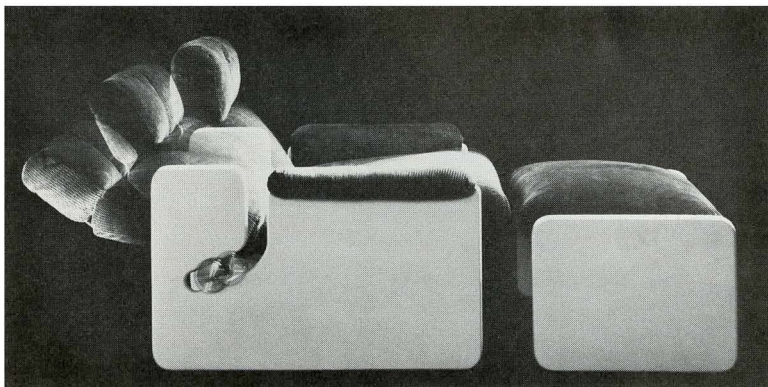
### An arts centre on a budget

Directors of the new St. Lawrence Centre for the Arts, Toronto, are happier with their building than they are with the site.

Theatre Director Leon Major says "As a theatre it works, as a building it is strong and masculine . . . but should be surrounded by space." "The architects have performed miracles considering the severe site restrictions," says Program Director Bruce Lawson.

Mavor Moore, general director, when asked to comment, said only that "Our job is to make the place so worthwhile for the citizens of Toronto that it will eventually be considered an indispensable part of our civilization, like schools, libraries and universities. Then it will be looked upon not as an expensive frill but as a bargain."

The theatre's official opening is February 26th. The architect was Gar MacInnis of Gordon S. Adamson and Associates.



### Lamb wins top Eedee award

Architecture Canada's new design columnist Thomas Lamb has received the grand 'Eedee' Award and a \$1,000 prize for his adjustable reclining chair and matching ottoman in the 1969 Ontario Furniture Design Awards competition. Manufacturer is DuBarry Furniture Ltd. of Toronto.



## COMPETITIONS

### 1970 Massey Medals

The seventh Massey Medals for Architecture Competition will be held in 1970. As usual, it will be a two-stage competition, the first judging to select up to one hundred projects and a second judging to select from these up to 20 entries to receive silver medals. Entries will be in six groups with the fifth group, housing, divided into two sub-groups. An entry must be designated for one group only. The conditions are now being mailed to RAIC members by Institute Headquarters.

The jury will be Eric R. Arthur, Toronto; Jean-Louis Lalonde, Montreal; and Peter Blake, New York. Prof. Henry Elder, head of UBC School of Architecture, will be non-voting chairman and professional adviser.

The competition timetable is as follows: final date for registration, May 15th; final date for despatch of entries for preliminary judging, June 1st; preliminary judging, June 29th-30th; final date for despatch of finalists' entries, September 18th; final judging, October 1st-2nd; presentation of awards and opening of the Massey Medals Exhibition, National Gallery, Ottawa, December 3rd.

### Competition announced for British parliament building

A competition for a new parliament building in London, Eng. will be open to all Commonwealth architects. From preliminary submissions indicating general solutions, 8 to 12 finalists will be asked to prepare detailed proposals.

Architects John C. Parkin, Toronto, Denys Lasdun, London, England, Robin Boyd, Australia, and Eric Bedford of the British Ministry of Public Works, comprise the jury.

Dates, the value of the project, premiums and honoraria will be announced at a later date.

## TORONTO AWARDS

### OAA chapter introduces building design awards program

The Toronto Chapter of the Ontario Association of Architects has just announced its first annual Toronto Chapter design awards program.

All members of the OAA are eligible for entrance but buildings entered must be within the Toronto chapter electoral district and completed since January 1st, 1968. There will be one award of excellence unless there is more than one building of exceptional merit. A plaque will be awarded and winning entries will be publicly displayed.

Eb Zeidler is chairman of the design awards committee. Douglas Shadbolt, director of the School of Architecture, Carleton, and Ray Affleck, Montreal, will form the jury. Plans and photographs should be

addressed to the Annual Design Awards Committee, Toronto Chapter, OAA, 50 Park Rd., Toronto 5, and be postmarked no later than March 2nd.

## URBAN RENEWAL

### Two Calgary projects move ahead

In spite of the fact that Harold Hanen was ousted from his position as Calgary's senior planner last fall soon after a change in civic government, sources there report it is generally thought that the plus-15 downtown scheme will go ahead. Mr. Hanen was one of the key people involved in the plan's inception.

According to a Calgary newspaper, Mr. Hanen was told that his position on the board of directors of Farmers and Merchants Trust constituted a conflict of interest. A group of city architects protested his firing.

Also in Calgary, the citizens of East Calgary, the historic old centre of the city, have let the city know that they care about its future and that they are prepared to do more than just talk about it.

A "grassroots" plan for renewal of the area prepared by the citizens was presented to the city council, which responded not only with a go-ahead but with an offer to make available its co-operation.

It all began with Mount Royal College planning students and was reinforced by professional resource people.

This group was joined by hundreds of interested residents, then industry and merchants, and lately even school children.

Meanwhile Harold Hanen, who has remained in Calgary and is still involved in planning but now on his own, is pressing suit against the city.

## BUILDING CODES

### National building code for Ontario by '71

Province-wide uniformity of building codes in Ontario looked a realistic prospect for next year as the Committee on Uniform Building Standards last month handed in a report that recommends mandatory adoption of the National Building Code throughout Ontario.

The Institute's representative on the committee was Pat M. Keenleyside of Govan, Kaminker, Langley, Keenleyside, Melick, Devonshire, Wilson, Toronto. He served as vice-chairman of the 11-member committee. Consulting engineer Clare D. Carruthers of Toronto served as chairman. The committee had been appointed in September, 1968.

"If there is any disagreement between members of the committee," said the report, "it is not *whether*, but *how* to achieve uniformity." It goes on:

"There would have to be a period of transition before the NBC could

be adopted without change. During this time, provisions not now covered by the national code, that are necessary to Ontario would likely have to be included in a supplementary document."

A study would seek to rationalize the 46 different provincial acts that now contain provisions about building construction, with the idea of eliminating all such provisions in favour of references to the National Building Code. When this study was completed, the committee suggests, it might ideally become possible to have all necessary inspections carried out by one department.

The report was quickly endorsed by the Presidents' Consultative Committee of RAIC, ACEC, SWAC, CCA and NHBA, which met in Toronto last month (see PCC p. 4).

Target date for province-wide adoption of the 1970 edition of the national code is set at January 1st, 1971.

## EDUCATION

### Trent offers pollution course

Trent University, Peterborough, Ont., will be one of North America's first universities to offer a credit course in pollution. Scheduled to begin in the fall, the course will be part of the regular academic curriculum and will focus on water pollution, especially in Ontario. Members of the biology department will contribute to the teaching.

### CMHC fellowships

Central Mortgage and Housing Corporation is offering 125 new fellowships for full-time graduate studies in various fields of urban and regional affairs for 1970-71. Stipends are \$3,000 plus tuition fees for students proceeding to a masters degree, \$4,000 plus tuition for students proceeding to a doctoral degree. Candidates must be Canadian citizens or landed immigrants.

One hundred fellowships are designated for study in Canada, 25 for study outside the country. Applications must be submitted directly from universities: March 2nd is the deadline for study in Canada, April 15th for study abroad.

For further information contact The Administrator, Advisory Group, CMHC, Ottawa 7.

### Computer-aided architecture course at MIT this summer

The computer needs someone to talk to. MIT makes the point in a release about their 1970 computer course. "It is important in the evolution of machine aids, which help furnish environmental qualities, that the computer have dialogue with designers applying expertise or untrained residents reflecting personal needs", according to the MIT release.

MIT describes computer-aided architecture as "the application of machines to human and social pur-

pose embodied in the design and construction of built environment achieved through mutual assisting, augmenting and emulating by men and machines". It then went on to say that "it becomes unimportant to distinguish when the machine is aiding the man or the man is aiding the machine".

The MIT summer course this year will be devoted to computer-aided architecture and will run from July 6-17. For further information write the Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139.

## PEOPLE

Thirty-five-year-old bilingual Montrealer André Lapointe has been appointed National Director of the Community Planning Association of Canada. Mr. Lapointe was formerly Assistant to the President of the University of Montreal.

Norman H. McMurrich, Toronto, RAIC immediate past president, has been appointed to the jury of the 1970 Prestressed Concrete Institute's design awards program. Other architect members are AIA president Rex Whitaker Allen, San Francisco, and Louis A. Rossetti, Detroit.

Any type of precast or prestressed concrete structure in Canada or the US completed in the last three years (or substantially prior to July 1st, 1970) is eligible for entry in this annual awards program.

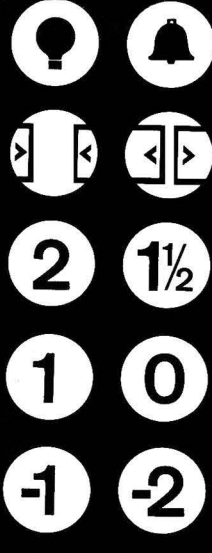
R. E. Briggs of Bregman and Hamann, Toronto, has been elected chairman of the Canadian Joint Committee on Construction Documents and Procedures.

The committee is made up of representatives of RAIC, the Association of Consulting Engineers of Canada, the Canadian Construction Association, the Engineering Institute of Canada, and the Specification Writers Association of Canada. Its responsibilities include the drafting, promoting and updating of guides for recommended practice in the construction industry.

Mr. Briggs is a founding member of the Specification Writers Association of Canada, and served as president in 1959.

Norman W. Dobeil of Hamilton and William A. Gibson of Ottawa have been elected to the Council of OAA. Elected to the OAA Registration Board are Kenneth H. Foster and William A. Strong, both of Toronto. Also appointed to the board is Tore Bjornstad, Waterloo, in recognition of the University of Waterloo's School of Architecture. All appointments took effect January 1st, 1970.

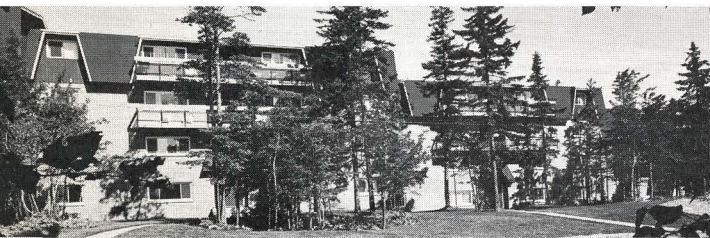
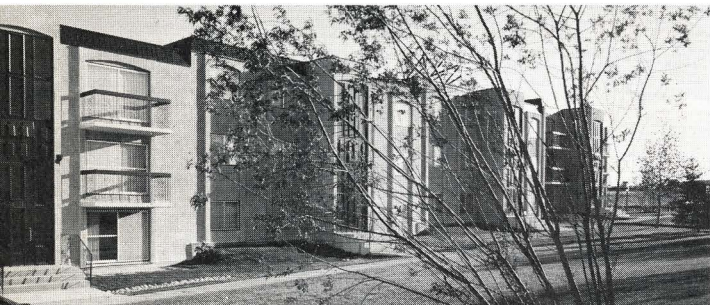
John Radisch, MRAIC, formerly project architect for the National Arts Centre, Ottawa, has been appointed Chief of Design Services, Department of Public Works, Capital Region, 301 Elgin St., Ottawa. Telephone 996-3038.



### Elevator controls may go graphic

Possibilities of elevator controls with graphic symbols internationally recognizable are being explored by Otis Elevator Company. Increasing world travel, construction of tall buildings in all countries and near-universal acceptance of automated elevators favour worldwide standardization.

Graphic symbols for road signs, automobile dash controls and facilities at world fairs are already in use. The need for such changes first became evident in bilingual countries like Canada, Belgium and South Africa.

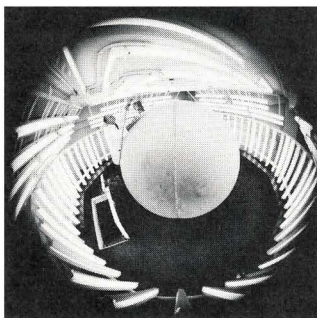


### Two projects win NHBA Awards

"To give recognition to members who develop exceptional design for their projects," the National House Builders Association three years ago introduced a Multi-Family Design Award Program. This year's winners announced at NHBA's convention in Niagara Falls this month: Paragon Properties, Village Green apartments and townhouses in Calgary, designed by Eric Proppe (top) and Lacewood Developments Ltd.'s garden apartments in Halifax, designed for Stevens & Fiske Construction by Webber, Harrington & Weld, architects and engineers.

### Architects help researchers design isolation globe

Winnipeg architects Green Blankstein and Russell are assisting scientists to test the effects on humans of prolonged isolation. With the zoo-psych research staff of the University of Manitoba they have created a nine-foot-diameter globe of translucent plastic which has all the comforts of home except other human beings. The dome's occupant will be watched by TV in much the same way US astronauts are. The lighting system around the exterior surface can be changed from brilliant sunshine to blackest night, or variations, with natural and colored fluorescent lamps. The globe is part of a large sensory deprivation lab on the fifth floor of the Zoology-Psychology building designed by GBR Associates and completed last fall.



## PROJECTS

Plans for major extensions to federal penitentiaries in Ste Anne des Plaines, Que., and Millhaven, Ont., are being undertaken by the Montreal architectural firm Dobush, Stewart, Bourke, Longpré, Marchand, Goudreau. Work will entail construction of reception and medical centres at both installations.

Montreal International Airport Consultants, a consortium of architects and engineers, has been awarded management and architectural contracts for the initial stages of the new international airport at Ste Scholastique, north of Montreal. Firms include Surveyer, Nenniger and Chenevert; Beauchemin, Beaton, Lapointe; Bland, Lemoyne and Shine and Victor Prus. Papineau, Gerin-Lajoie, Leblanc and Edwards will be architects for the first terminal building.

The government of Pakistan plans to commission designs for a central library and a museum for the second capital, Dacca, at an estimated cost of C\$2 million, and invites architects to send their list of previous works to the chief architect, Pak DPW, Dacca, by March 15.

## RAIC

### Delphi Probe advances

The RAIC Delphi Probe on how to achieve a better environment during the 70's is now well underway with responses in from 79 of the 131 "experts" polled.

Each participant was asked to assess the desirability and likelihood of the occurrence of twenty events for the next decade affecting the environment.

Those selected to receive questionnaires were thought to be experts in their particular fields. Participants include among others, businessmen, housewives, social scientists and, of course, architects.

Round One has now been completed, Round Two is underway, Round Three will be sent out March 1. With each successive round participants learn more and more about how their predictions compare with those of others. They may alter their decisions but must justify them in Round Three. Final results will be announced at the RAIC Annual Assembly May 13-16 in Winnipeg. Nolan Consultants of Toronto is conducting the poll.

### Council decides to drop professional services catalogue

RAIC has decided not to proceed with the proposed "catalogue of professional resources". (See A/C, Sept., 1969, p. 3).

After reconsideration, the Council has decided RAIC should not categorize its members as "specialists" in particular building types because the public might get the impression

the list implied RAIC recommendation.

Director of Professional Services Wilson Salter will continue to gather the information for internal use only to aid the Institute in selecting members for RAIC committee or project work.

### PCC prepares for national construction conference

A meeting of the Presidents' Consultative Committee of the RAIC, ACEC, CCA, SWAC and NHBA was held in Toronto last month.

Members agreed that position papers would be prepared for the Committee's meeting next October regarding a proposed national conference on improving productivity in the construction industry.

The meeting reviewed progress on joint projects such as the Building Construction Index (BCI); the Barott awards for effective product literature and the Guide to Construction Contract Administration.

Members agreed to maintain liaison between organizations on the preparation of briefs on the White Paper on Tax Reform; and to exchange information on research projects in progress.

ACEC President G. E. M. Proctor, Toronto, was in the chair.

### Department of Industry announces 35-member forum for construction industry/government discussions

Formation of a 35-member Construction Industry Development Council for Canada has been announced by the Federal Department of Industry. The Council, which will meet three times a year, will provide a forum for industry-government discussions on matters of economic and technological importance as well as advise the government on industrialization and other construction industry developments. Jack Cochran, President of Domtar Construction Materials Ltd., is Chairman of the Council.

RAIC members named by the Department of Industry are RAIC President W. G. Leithead, Vancouver; Donald Blenkhorne, F. J. K. Nicol and Roderick G. Robbie, Toronto; Ernest J. Smith, Winnipeg; Henri-P. Labelle and Guy Desbarats, Montreal; D'Arcy Helmer, Ottawa; and A. W. Cluff, Toronto, who is also President of the Specification Writers' Association of Canada. Government representative is CMHC Vice-President Ian R. MacLennan, Ottawa.

## CALENDAR

- Feb. 19-21 OAA Annual Meeting, Toronto
- April 4-12 National Home Show, Toronto
- April 12-18 Second International Brick Masonry Conference, Staffordshire, England

## LEGAL

Regina practice is first to have corporation status

A landmark in professional practices occurred recently in Saskatchewan with the licensing by the Saskatchewan Association of Architects of a legal corporation for the practice of architecture in the province. The firm involved is D. H. Stock & Partners Ltd. with offices in Regina and Saskatoon.

The Stock partnership thus becomes the first architectural firm in Canada to be legally incorporated. The way was cleared for this by a 1968 change in the provincial architects act. A similar change has already been made in Nova Scotia and is pending in Alberta. BC, Manitoba, Ontario and New Brunswick are working towards similar legislation and expect to have it within one year.

To operate under a corporate structure effectively reduces the burden of personal legal liability for the individual architect.

## SYSTEMS BUILDING

Domtar considering systems building entry

Domtar Construction Materials, the country's biggest (approx. \$85-million sales) building materials supplier, is pondering what way — if any — it should get involved in systems building. N. Bruce Dephoure, former general manager of Domtar's Siporex (precast lightweight concrete) division has been named assistant to president Jack Cochran of Domtar Construction Materials, with a special assignment to look into systems building.

An engineer, Mr. Dephoure makes the point that systems building is "basically a management approach" to overall construction problems. Too many people, he warns, have focused on some particular system of components and look no further than that. "The fact that you might set some 'system' is quite incidental," he says.

Does Mr. Dephoure's appointment imply Domtar is ready to move beyond its present area of building materials supply to a designer/contractor role? It's much too early to say, says Mr. Dephoure. "A company like ours continually looks at what is the best way to serve the market."

Several other major suppliers have been taking a quiet look at systems building. So far none has made any public announcement that they are getting into the field. Toronto-based Universal Sections probably comes nearest to it: the firm has recently been quietly absorbing a number of small component manufacturers and a prefab house plant, and currently is working on a "total package" for single-family and low-rise multiple housing.

In addition, two newly-formed

firms, Modular Precast Structures and Jespersen-Kay are building plants in Toronto, to produce concrete components for high-rise apartments and commercial buildings. Modular is a consortium of five of Toronto's biggest apartment builders and Wates, a major U.K. systems builder. Jespersen-Kay is a Canadian franchisee of the Scandinavian Jespersen system.

## Book review

*Systems Building: A Survey of International Methods by Schmidt and Testa. Published by Frederick A. Praeger, 1969. Hardcover. 240 pages. \$24.*

The cover of this book, the glossiness of its pages and photographs, its cost, and the impressive qualifications of its authors, belie the fact that its contents are poorly written and organized. Thus, far from contributing to the development of "better and more precise concepts", the authors of *Systems Building* may have unwittingly added to the confusion which presently plagues this field of building activity.

Throughout the book architects are repeatedly challenged, implored, and blackmailed into meeting the challenge posed by the monotony presently characteristic of most building systems. However, the sceptic may remain unconverted, particularly when faced by the authors' assertion that the economic advantage of systems building decreases as flexibility increases. Moreover, while the spectre of the monopoly corporation is raised in the shape of General Electric, General Dynamics, and General Motors, the authors do not offer the reader a viable alternative. Instead, they suggest that individualistic theories are:

... grotesque against the background of an organization needed for the development and the operation of a building system, and in view of the heavy financial outlay involved."

Is it really so remarkable that the "perfect" building systems have failed financially, or that the visionaries and humanists remain unconvinced? *Grant Wanzel*

## Industrialized building congress announced

Yet another "Industrialized Building Congress" has been announced, this one by three U.S. building magazines.

The combination exposition and conference will be held October 4th-7th, 1970, at the Kentucky Exposition Center, Louisville.

Among the exhibitors at the Industrialized Building Congress will be producers of building systems and components, manufacturers of production equipment.

For information, write: Richard L. Bullock, executive director, Cahners Publishing Company, 5 S. Wabash, Chicago, Ill. 60603.

## PLANNING

Toronto expressway a bad trip

At last citizens are taking an active interest in the decisions made by city technocrats. As war is too serious an affair to be left to generals, so is planning too important to be left to highway engineers or surveyors. The devastating effects and costs of "efficient" technology are now, thankfully, being measured and exposed. In Toronto, a classic battle is being waged for and against an expressway planned to be built through established residential and commercial areas. It is an issue which many Canadian cities will face, as they grow in size.

In an attempt to reveal the full range of concerns and all the implications of a decision to construct an expressway, David and Nadine Nowlan have published a timely bombshell *The Bad Trip* (New Press, House of Anansi, Toronto, 1970, 125 pages, \$1.25) the story of the Spadina Expressway. As the cover accurately states, it is a competent, well researched and understated argument *against* the Expressway.

It asks these questions: What is the *real* cost of the transportation system of which Spadina can only be a part? How does this system stack up against an alternative that does not bring expressways into central Toronto? What kind of planning went into the Spadina? What kind of political decisions approved it?

Also like generals, the proponents of the Spadina expressway are fighting the battles of the previous war: expressways feeding a downtown were used to bring people from dormitory suburbs to a hub. This radial pattern is no longer the exclusive structure of activity and movement of the city — a new form of city, irrespective of plans, has already supplanted that form. Many more lateral trips take place between a mix of activities and varied land uses on what was once regarded as the perimeter than radial trips. In fact, Toronto's official plan gives credence to this view with the concept of district centres. So the question of what does the expressway do to the *official* plan could be added to the Nowlan's list of questions. The answer is clearly that it will firstly undermine the official plan by feeding "downtown" at the expense of other centres, and secondly, it will recreate the archaic radial city that has caused the problems the expressway purports to solve!

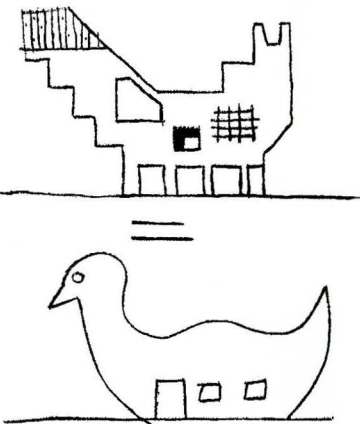
The Nowlan's answer will jolt any open-minded reader. For example, the transportation system Toronto is now building not only cost about a billion dollars more than the alternative, it is less efficient for both transit riders and drivers.

The facts are documented from the Metro Planning Board's own studies. The expressway's political history is presented. And, behind the story is the probability that the

present course will destroy Toronto as a liveable city.

Included in the book is an article by Jane Jacobs, *A City Gets Hooked on an Expressway Drug*, one of Mrs. Jacobs most cogent arguments and persuasive views.

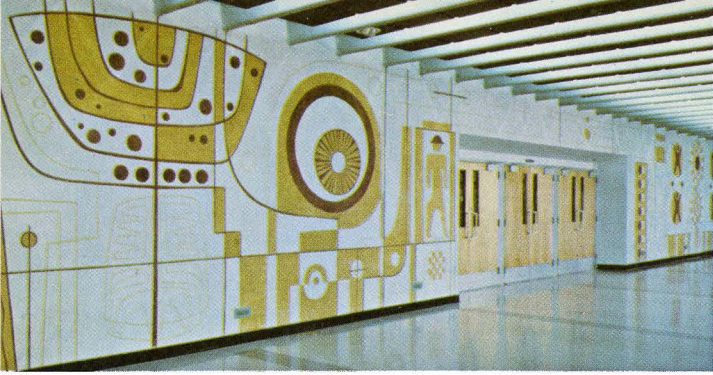
*The Bad Trip* reintroduces a number of issues for planning. At present, cities have planning structures which would not be tolerated in other institutions, such as political or judicial: the idea that a unitary agency can act as defendant, prosecutor, as government and opposition all at once and arrive at satisfactory results is clearly untenable. In law, there is legal aid for those who cannot afford a lawyer. It is accepted that the ordinary citizen needs professional assistance in presenting his case in the context of intricate legal systems. In government, the opposition performs the function of keeping the party in power honest, and making it do its homework on legislation that affects the citizen. In planning, no such mechanism exists. It is time for planning aid, where interested groups can hire the services of a planner to present alternative views to the official view, and have the relative merits competently judged.



Another event of interest in the past month was the talk given by Robert Venturi as one of the lectures that accompanied the Bauhaus exhibition at the Art Gallery of Ontario in late January.

His talk was an event: the content made most other talks and views appear staid and stodgy — it was an uncomfortable upset to those whose views are yet those of the 1930's, CIAM, the Bauhaus, Gropius and Harvard. He showed how many modern buildings are a total misrepresentation of their inner life; that decorated shacks are more true of the conditions than those appearing to be monumental structures which are in fact no different from most tacky tacky. The greatest perpetrator of this misrepresentation, he showed, is Paul Rudolf. He builds what Venturi termed "ducks" — a local example he gave of this kind of pseudo-heroic building is Scarborough College by John Andrews (who has now returned to live in his home country, Australia).

*A. J. Diamond*



Artistic mural at Bishop Grandin Academic & Vocational High School, Calgary.



2 Another decorative mural at Bishop Grandin High School, Calgary.



3 Precast concrete pedestrian bridge at University of Saskatchewan.



4 St. Basil's Ukrainian Catholic Church, Edmonton.



5 Decorative concrete wall at Canada Cement plant near Saskatoon.

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6 Foyer Patro, Rivière du Loup, Que.



8 Centennial Cultural Centre, Dorval, Que.



7 Pitney-Bowes Building, Ottawa, Ont.



9 Pathology Institute Building, Halifax, N.S.

# CONCRETE



1. Archts.: Cohos-Delesalle & Associates  
& Interior mural hand sculptured by: R. Oldrich of Oldrich Design Ltd.
2. Genl. Contr.: Oland Construction Co. Ltd.  
Precast and prestressed concrete members: Con-Force Products Ltd.  
Ready-mixed concrete: Gallelli Construction Materials Ltd.
3. Archt.: John Holliday-Scott  
Cons. Struct. Engrs.: Douglas, Pearson, Fossey & Partnership  
Genl. Contr.: Poole Construction Ltd.  
Precast concrete members: Con-Force Products Ltd.  
Ready-mixed concrete: Stodola Concrete (Sask) Ltd.
4. Archt.: Eugene Oleksy  
Cons. Struct. Engrs.: Duthie Newby & Associates Ltd.

- Genl. Contr.: Christensen & MacDonald Construction Ltd.  
Precast and prestressed concrete members: Con-Force Products Ltd.
5. Archts.: Marvin & Vanstone  
Cons. Struct. Engrs.: Underwood, McLellan & Associates Ltd.  
Genl. Contr.: Graham Construction  
Precast concrete members: Con-Force Products Ltd.  
Ready-mixed concrete: Stodola Concrete (Sask) Ltd. and Redi-Mix Concrete Ltd.
6. Archts.: Georges Lagacé & Roland Massicotte  
Cons. Struct. Engr.: Réjean Pelletier  
Genl. Contr.: Pelletier et Martin  
Supplier of concrete: Construction St-Patrice Ltée

7. Archts.: Murray & Murray and L. Rebanks  
Cons. Struct. Engrs.: Robert Halsall & Assoc. Ltd.  
Genl. Contr.: Aselford-Martin Ltd.  
Precast concrete panels: Durie Mosaic & Marble Ltd.  
Ready-mixed concrete: Francon Limited
8. Archts.: Oberman & Paskulin  
Cons. Struct. Engrs.: Sachs & MacKean  
Genl. Contr.: Chant Co. Ltd.  
Precast concrete panels: Creaghan & Archibald Ltd.
9. Archts.: Leslie R. Fairn & Associates  
Cons. Struct. Engrs.: D. B. Dorey Engineering Ltd.  
Genl. Contr.: McDonald Construction Co. Ltd.  
Precast concrete panels: Nova Stone Ltd.  
Ready-mixed concrete: Whebby's Concrete Mix Ltd.

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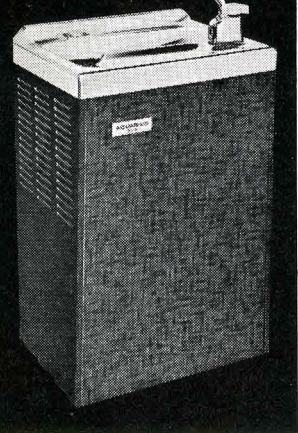
Entrance Examinations will be held at the College on Saturday, March 28th and on Saturday, May 30th. For complete information write to the Headmaster.



## Appleby College

Edward R. Larsen, M.A. (Oxon) Headmaster, Oakville, Ontario

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### OAA

Annual convention at Ontario Science Centre, Royal York this week

The Ontario Association has finalized the program for its annual convention, to be held February 19th-21st in Toronto.

The program opens with a tour of the new Ontario Science Centre, where noted U.S. architect Paul Rudolph will speak following luncheon on Thursday, February 19th.

The building materials exhibition opens in the Canadian Room of the Royal York Hotel at 4 p.m. The exhibitors will host a reception in the same room starting at 6.15 p.m. At dinner in the evening, the exhibitors awards to students will be announced. The exhibition will also be open all day Friday and through 4 p.m. Saturday.

The annual general meeting will be held in two parts, Friday and Saturday morning in the Ontario Room of the Royal York.

Various workshop sessions Friday afternoon will cover: 1) the architect-developer relationship; 2) project management; 3) the profession and architectural education; 4) the profession and research; 5) governments and the profession.

### AAPQ

Le problème du logement  
thème du congrès

Le congrès de l'AAPQ en janvier 1970 a eu pour thème le problème du logement au Canada. En résumé des discussions auxquelles ont pris part certains membres de l'industrie de la construction, du gouvernement, de groupes de citoyens, d'experts en l'économie urbaine, financement, exploitation, sociologie et taxation, nous pouvons tirer les recommandations suivantes:

1. Le gouvernement fédéral devrait trouver une formule de taxation qui enlèverait la responsabilité aux municipalités.

2. Le gouvernement provincial devrait mettre en pratique certaines parties du rapport de la "Commission pour l'Urbanisme" qui a été présenté au ministre des Affaires Municipales a) Créer le financement et l'administration qui permettra aux municipalités dès maintenant de se procurer des réserves de terrain. b) Créer une agence pour la co-ordination des ressources de tous les ministères. c) Provoquer des recherches en méthodes de construction et mieux profiter des recherches faites par les universités et par l'industrie.

3. Les 3 niveaux du gouvernement devraient identifier clairement le problème du logement comme une partie intégrale du problème global d'urbanisme. La discussion en isolation devrait cesser.

4. Les taxes fédérales et provinciales sur les matériaux de construction doivent être supprimées afin d'améliorer la qualité et le nombre de logements construits.

5. Les 3 niveaux de gouvernement doivent donner *priorité* immédiate aux problèmes du logement et des affaires urbaines et se hâter de joindre le geste à la parole car le problème est urgent.

L'AAPQ offre de prêter son concours et donnera priorité en 1970 à l'étude et la recherche dans ce domaine. Elle participera au financement d'études en collaboration avec d'autres groupes.

Freedlander elected president

Philip Freedlander, Montreal, was elected president of the Province of Quebec Association of Architects at the Annual Meeting in Montreal 22nd-24th January. He succeeds Jean-Louis Lalonde, also of Montreal.

### AIBC

Celebrates 50th anniversary

The Architectural Institute of British Columbia will celebrate its 50th anniversary this year with a two-week program which will include a public exhibit at the Art Gallery and a repeat of last year's successful show at the Playhouse Theatre designed to interest high school students in architecture.

The celebration committee, under the chairmanship of Donald R. Towers of Toby Russell and Buckwell, Vancouver, is designing an exhibit of BC architecture past, present and future which will be on display at the Vancouver Art Gallery for the two-week anniversary period, April 28 to May 13. It is hoped that following this the exhibit will travel around the province.

The Playhouse presentation will again feature sketching by AIBC member Stanley King on a paper-covered 30-foot blackboard.

Rhone re-elected president

William R. Rhone of Vancouver was re-elected president of the Architectural Institute of B.C. at the December annual general meeting. He is a partner in the firm of Rhone & Iredale.

### MAA

Libling elected president

Gerald A. Libling, a senior partner in the firm of Libling Michener and Associates, Winnipeg, was elected President of The Manitoba Association of Architects at their annual meeting January 31st, in Winnipeg. Mr. Libling is Chairman of the Host Committee for the 1970 RAIC Assembly in Winnipeg May 13th-16th.

David M. Aitken of Smith Carter, Parkin was elected executive vice-president, and Kenneth F. Hurst was re-elected vice-president and treasurer.



## AAA

Convention held at new Edmonton Art Gallery

Design for the North was the theme of the Annual Meeting of the Alberta Association of Architects, held January 22nd-24th at Edmonton. The first session of the convention, held at the New Edmonton Art Gallery, was open to the public, and architecture for northern climates was the subject of the keynote address by Prof. Carl Nelson of the University of Manitoba.

Alberta Lieutenant Governor Grant MacEwan presented AAA Design Awards to five firms: Bittorf-Wensley for the design of the new art gallery in which the ceremonies were held; Minsos, Vaitkunas and Jamieson for Cathedral Court Apartments in Edmonton; William E. Boucock for the J. K. Esler residence Calgary; Douglas Cardinal for St. Mary's R.C. Church, Red Deer; and Denis and Freda O'Connor and Maltby for Michener Park married students quarters at the University of Alberta Edmonton Campus.

J. McIntosh, Edmonton, succeeded E. Raines of Calgary as AAA president for 1970.

## ENVIRONMENT

Book review

*The Architecture of the Well-tempered Environment*, by Reyner Banham, London, Architectural Press. 1969. Price \$11.25

Much of the effort of the new breed of architectural researchers which emerged during the late fifties and early sixties was concentrated upon studies of "the environment". Although this phrase is now used indiscriminately to embrace architecture, planning, geography and a few other "disciplines" its earlier usage denoted the physics of light, heat and sound within buildings and the function of the building fabric and services as modifiers of the physical conditions outside. Here, already, is Banham's over-square contribution to the historical background of this field of studies.

This book provides a very good introduction to the concepts of environmental control. Architects, of course, are familiar with controls for air conditioning systems, electric lighting and so on, but often they are not aware that the vital environmental controls are not those provided by their consulting engineers, but the design decisions they make on their own: siting, orientation, building shape, the thermal fly-wheel efforts of building mass, heating effects of electric light and power apparatus and the BTUs shed by buildings' human users.

Banham has been adept at bringing many sources and details together to build a new point of view; his result is very readable. I certainly recommend this book to that small minority of architectural students

which buys its own books; libraries need at least two copies each for everybody else. *Peter Manning*

## Japanese chikagai

The Japanese are going underground. Plagued by traffic jams, too much noise and polluted air in their crowded cities, they are excavating "chikagai" - literally "underground towns".

There are already 40 chikagai, and several more are planned. The towns are really underground shopping centers - self-contained communities of shops, restaurants and service industries. One three-tiered center in Tokyo has 260 stores. In contrast, Montreal's big underground shopping center at Place Ville Marie has 70. In any 20-hour period, as many as 800,000 people use Osaka's huge Umeda Chikagai, which, like the other centers, is close to transportation facilities. The "towns" even have police stations whose work includes returning lost children to their parents.

## LETTERS

Sirs:

Most architects are well aware of the alternate ways in which building space can be distributed on a site. Many are also aware that present zoning codes severely limit these alternative solutions to design problems, usually limiting the development to a volume isolated from its site boundaries. But perhaps they have not realized that this single alternative, that of a free-standing pavilion, is destroying the comprehensibility of urban areas - preventing street life from existing while making no alternative place for the pedestrian. The residual spaces that surround these lone monuments are just that - residual, not designed for use.

The profession, in both public and private ways, could do much to change this restrictive condition, by making those responsible for the formation and execution of codes aware of the advantages of the alternatives, such as an architecture of courts and enclosed squares as well as pavilions.

*Tony Marsh, Toronto*

## HOUSING

Housing Design Council receives CMHC grant

The Canadian Housing Design Council has received a grant of \$65,000 from Central Mortgage and Housing Corporation to support its work in encouraging good housing design in Canada in 1970. The Council publishes a variety of booklets, sponsors lectures on good housing design and periodically conducts national and regional competitions, open to architects-builders and developers, for different types of housing.

## SUBWAY ART

New York students decorate a station for \$44.25

New York students brought "pop art" to the people last week by redecorating the subway station at Lexington and 68th.

The project was begun as an exercise in political science at Hunter College and ended as an experimental happening which elicited favorable comments from most passers-by. Students were assigned to provide live demonstrations of the truth or falsity of the statement "You can't fight city hall".

The art enthusiasts painted ceiling beams orange and created a multi-colored mural, others plastered the grime with op art, paper sunflowers and strung-up balloons.

Subway officials, according to the New York Times, were slow to agree to the idea but were enthused on seeing the project. The chairman of the transport authority remarked that the effort was unique and that "you need to get a little gaiety into these places".

Total cost of the decoration was \$44.25. It took 25 students overnight to make the transformation.

## BUSINESS

Construction Association head predicts modest increase

Mark Stein, president of the Canadian Construction Association, is predicting a "modest increase" in construction spending this year, "after three years in which the annual physical volume of construction declined in Canada."

## AWARDS

1970 product literature awards program announced

"People using product information want facts, not a picture of a girl stepping out of a bathtub", according to Frank J. Nicol, newly appointed chairman of the 1970 Peter Barott Awards for Building Product Literature.

Mr. Nicol says that "since the program's establishment in 1962 great strides have been made in the quality of product literature. The necessity for organized information has been pinpointed". He adds that, "Naturally the jury will note high graphic standard but the usefulness of the literature is of the greatest importance."

Mr. Nicol is a partner in the Toronto architectural firm of Nicol, Ream, McBain.

There are five categories for product literature: catalogues; brochures; installation and maintenance literature; sample display and printed advertising directed to building industry publications.

The jury and the dates of the program will be announced shortly.

## CLASSIFIED ADS

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

*Brock University, St. Catharines, Ont.* An inter-departmental program in *Urban Studies* is being developed with contributions from many disciplines. An appointee is now required to offer undergraduate level courses on The Problems of the City and The Planning Process. Status and salary in relation to qualifications and experience. The candidate should have Canadian experience, a professional background in one aspect of the city, and an inter-disciplinary outlook. Details from Dr. J. N. Jackson, Secretary to the Urban Studies Committee. A Teaching Assistant to lead seminars and practical programs will also be required.

Abram, Nowski and McLaughlin announce the formation of an architectural practice at 10 Codeco Court, Don Mills, Ont. Partners are architects G. S. Abram, J. J. Nowski, and S. G. McLaughlin.

Managing architect with 15 years experience as organizer/co-ordinator seeks challenge and authority where policy would require a logical combination of excellent design and project function. Write for résumé to "Architect" Box 4280, Postal Station 'E', Ottawa 1, Ont.

The University of Waterloo, Department of Co-ordination and Placement, requires a qualified architect for the position of Architectural Co-ordinator with the responsibility for seeing that architectural students obtain sound and valuable experience during their work terms. Write R. D. Eaton, Associate Director of the Department.

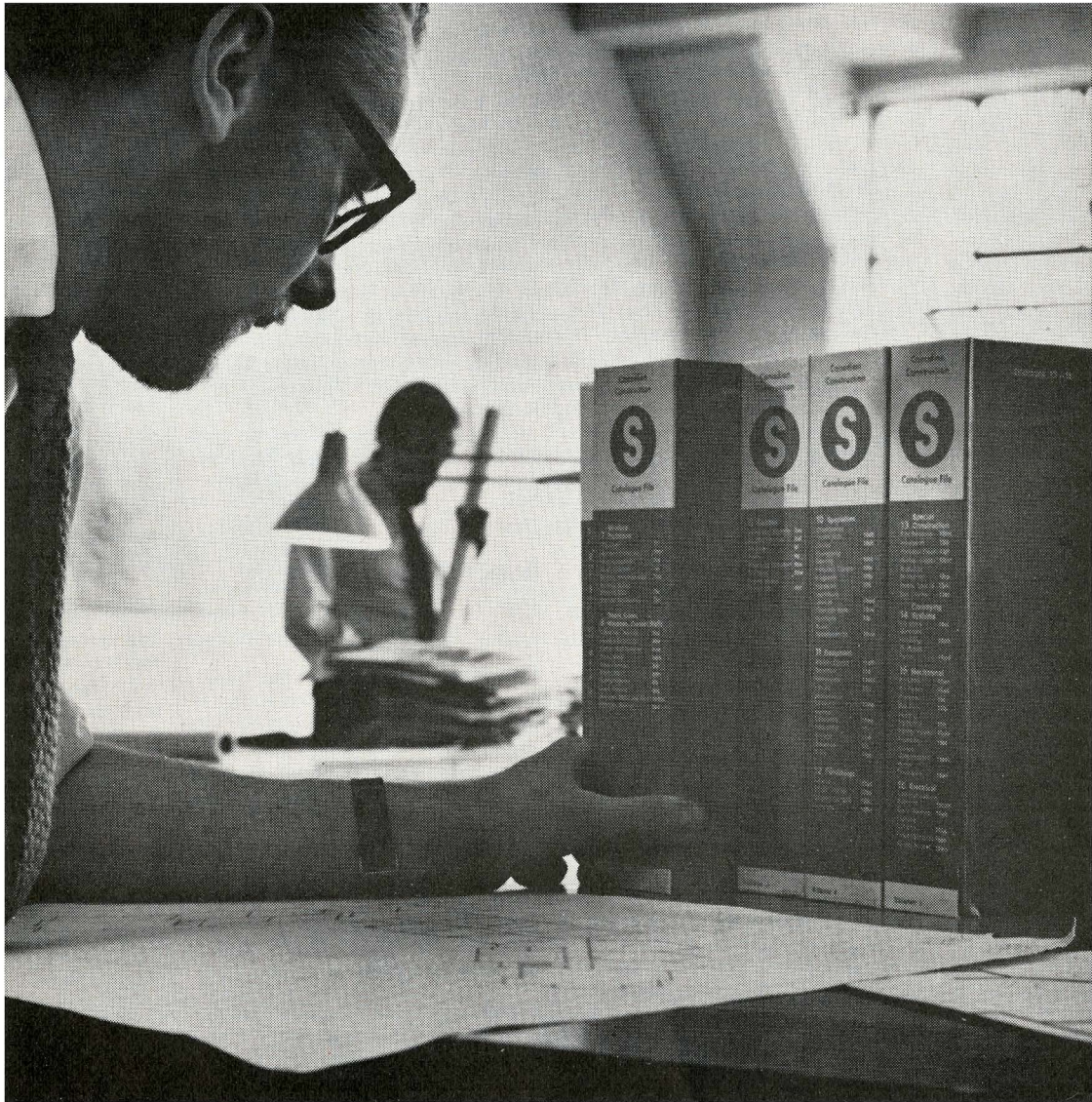
German architect, 31, seeks employment from May 1970 with architectural or planning firm, preferably in Vancouver or Toronto area. Dipl.-Ing. Architect, 1963, Technical University of Dresden, Germany. Six years varied experience in industrial and public buildings and management control of large projects. Write to Architecture Canada, Box 164.

Richard E. Bolton has resigned his partnership in Bolton, Ellwood and Aimers, Architects. The practice will continue under the name of Ellwood Aimers and Henderson at 4101 Sherbrooke St. W., Montreal and 116 Albert St., Ottawa. Mr. Bolton will practice privately and act as a consultant to the new firm.

Canadian architect (McGill 65), age 31, MRAIC, seeks responsible position with a future as project architect. Please reply: 1110 Sherbrooke St. W., Apt. 1007, Montreal, Quebec.

Mark / Musselman / McIntyre / Combe/architects have moved their Toronto office to 56 Berkeley Street, Toronto 2, Ontario. 416-368-3135. The Brantford office remains at 127 Brant Avenue, Brantford, Ontario. 519-756-6331.

# This chief draftsman took 12.5 seconds to find wood shingles



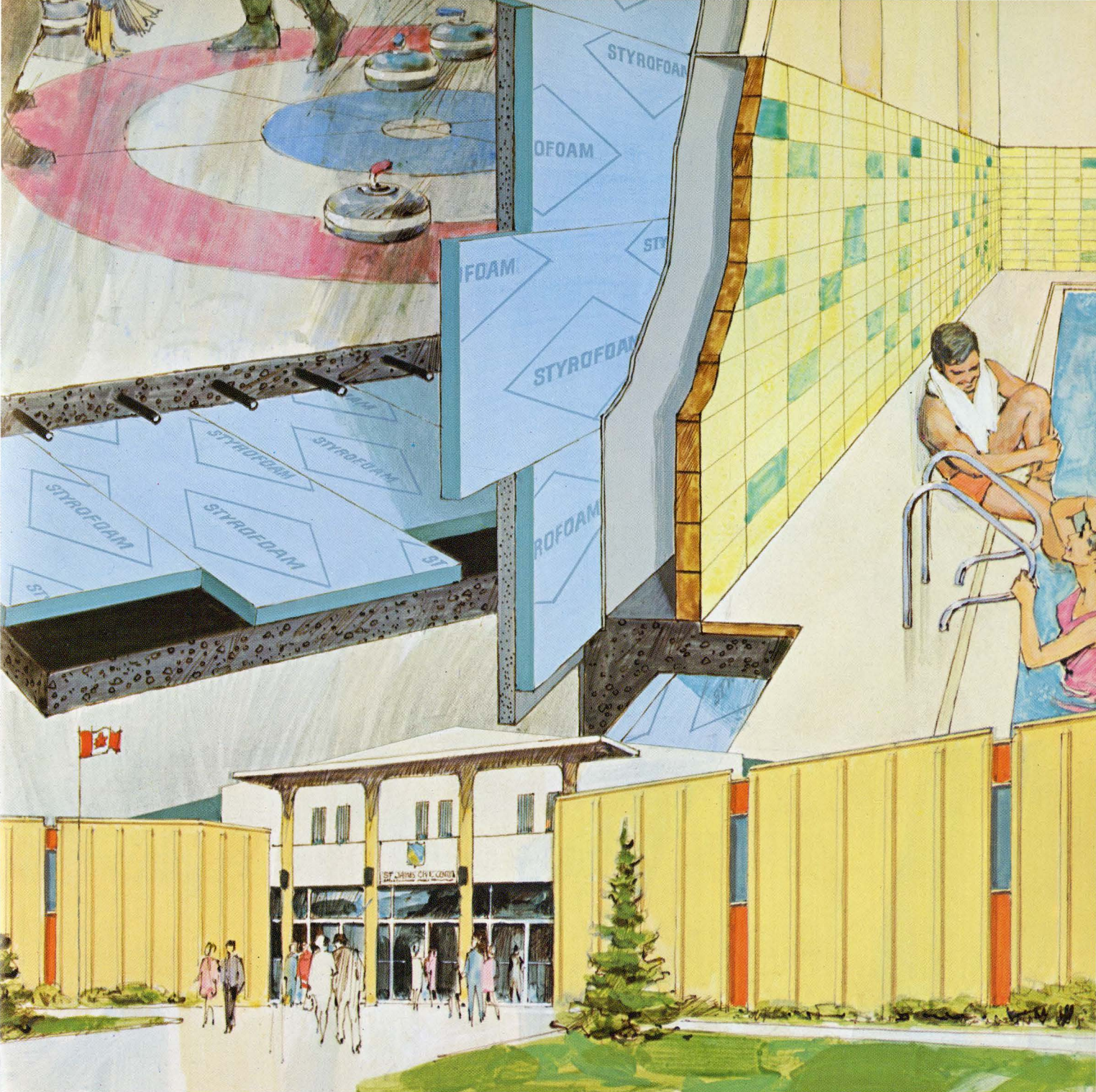
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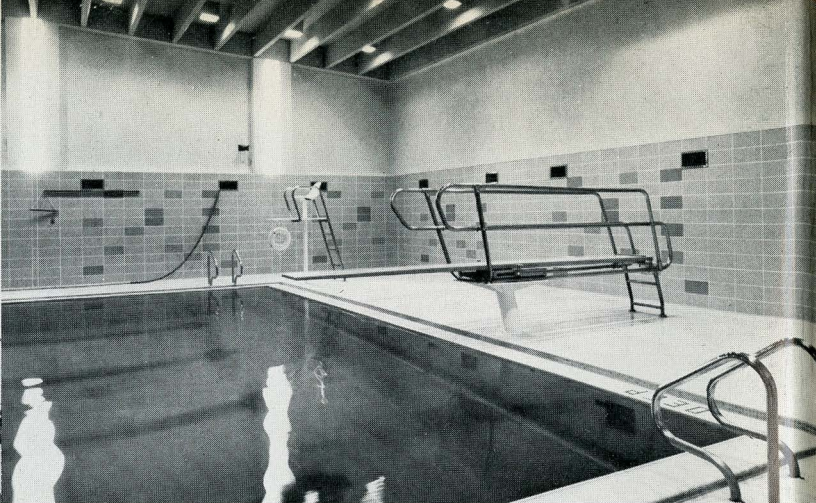
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Under the ice or around the pool, Styrofoam plastic foam insulation never absorbs moisture, never loses its efficiency. That's why Styrofoam\*—the insulation that has no "equivalent"—was specified for the most critical areas in the St. James Civic Centre complex near Winnipeg. Under the ice rink it prevents frost heaving. Surrounding the pool area it keeps the weather out and the moist atmosphere in. For the details, turn the page.



DOW CHEMICAL OF CANADA, LIMITED



Architects: Dwight R. Johnston and Nikola M. Zunic General Contractor: Winnipeg Construction Co. Ltd. Owner: City of St. James-Assiniboia  
Roofing Contractor: Aetna Roofing Limited Insulation Contractor: Armstrong Contracting Canada Limited

## Here's how Styrofoam and Roofmate plastic foam insulation were used in the St. James Civic Centre to overcome the critical problems of rink and pool insulation.

### Insulated rink ice surface

It has not been unusual for a hockey or curling rink ice surface to heave as much as 2 or 3 inches in a six-month season. You can imagine how that could have affected ice maintenance, not to mention players' tempers, in the 85- x 198-foot hockey and curling rink at the St. James Civic Centre.

By employing a rink floor system embodying Styrofoam\* SM, it was possible to prevent heaving by eliminating frost penetration in the sub-soil. The designers relied upon the permanent high insulating efficiency ( $k = 0.20$ ) of Styrofoam, its high compressive strength, and moisture impermeability.

An inch and a half of Styrofoam was laid on hot asphalt mopped onto the structural concrete subfloor. Polyethylene film was laid dry on top of the insulation. Finally, a concrete topping was applied in which the refrigeration piping was embedded. (See detail, right).

An increasing number of seasonal and year-round rinks across the country have used Styrofoam for this purpose with outstanding success. See Sweet's Canadian Catalogue, Section 13fs, for full details and architectural specifications for ice rink floor systems employing Styrofoam insulation.

### Insulated roof and walls of pool area

Another critical spot for insulation was the swimming pool area. The year-round St. James Centre pool was used for several training programmes for the 1967 Pan American Games.

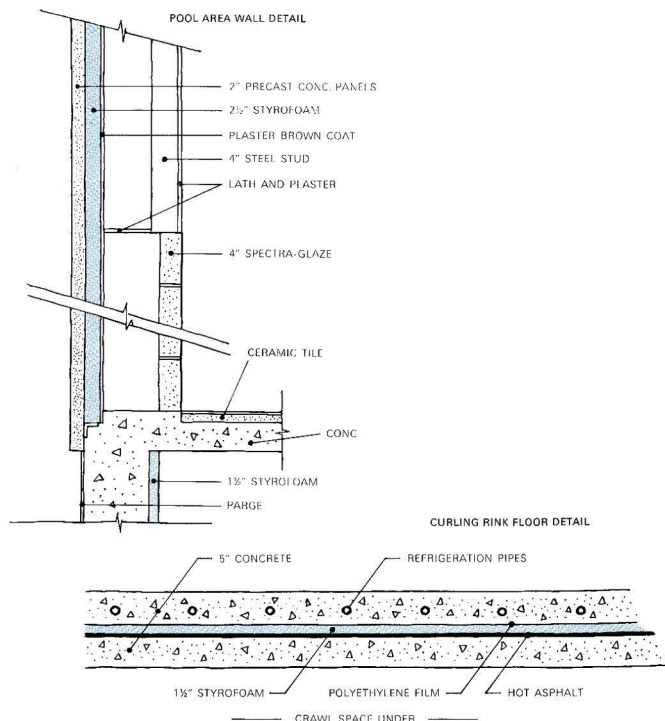
With high humidity conditions prevailing year-round inside, and wide seasonal weather variations outside, a wall and roof system was needed that would isolate and provide adequate control over these environments and be just as efficient today as when it was installed. It was absolutely necessary to prevent moisture vapour from penetrating the wall and roof. It was also necessary to utilize an insulation that would not absorb moisture, thereby preventing any reduction in insulating value.

Permanent high thermal efficiency, an efficient moisture vapour barrier, low water absorbency, resistance to mold growth . . . these were a few of the requirements that Styrofoam FR had to satisfy. To meet the same requirements, the roof was insulated with Roofmate\* plastic foam, a companion product of Styrofoam made specially for roofing use.

A detail of the wall system for the pool area is shown below.

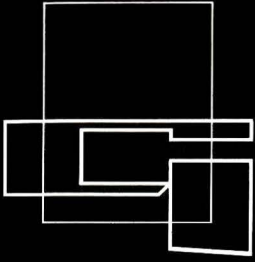
Styrofoam and Roofmate are flame-retardant (self-extinguishing) and, being inert, will not break down over time, support mold growth or provide food for vermin. Styrofoam FR was also used as a foundation perimeter insulation around the pool area of the Civic Centre ( $1\frac{1}{2}$ " thickness), and as a comfort insulation on the exterior walls of the auditorium.

Whether your project is more or less demanding than the St. James Civic Centre, the many advantages of Styrofoam and Roofmate plastic foam insulations are well worth considering. If you would like more information on systems employing these products, consult the 1969 Sweet's Canadian Construction File, or Dow Chemical of Canada, Limited, Construction Materials Sales, Sarnia, Ontario.



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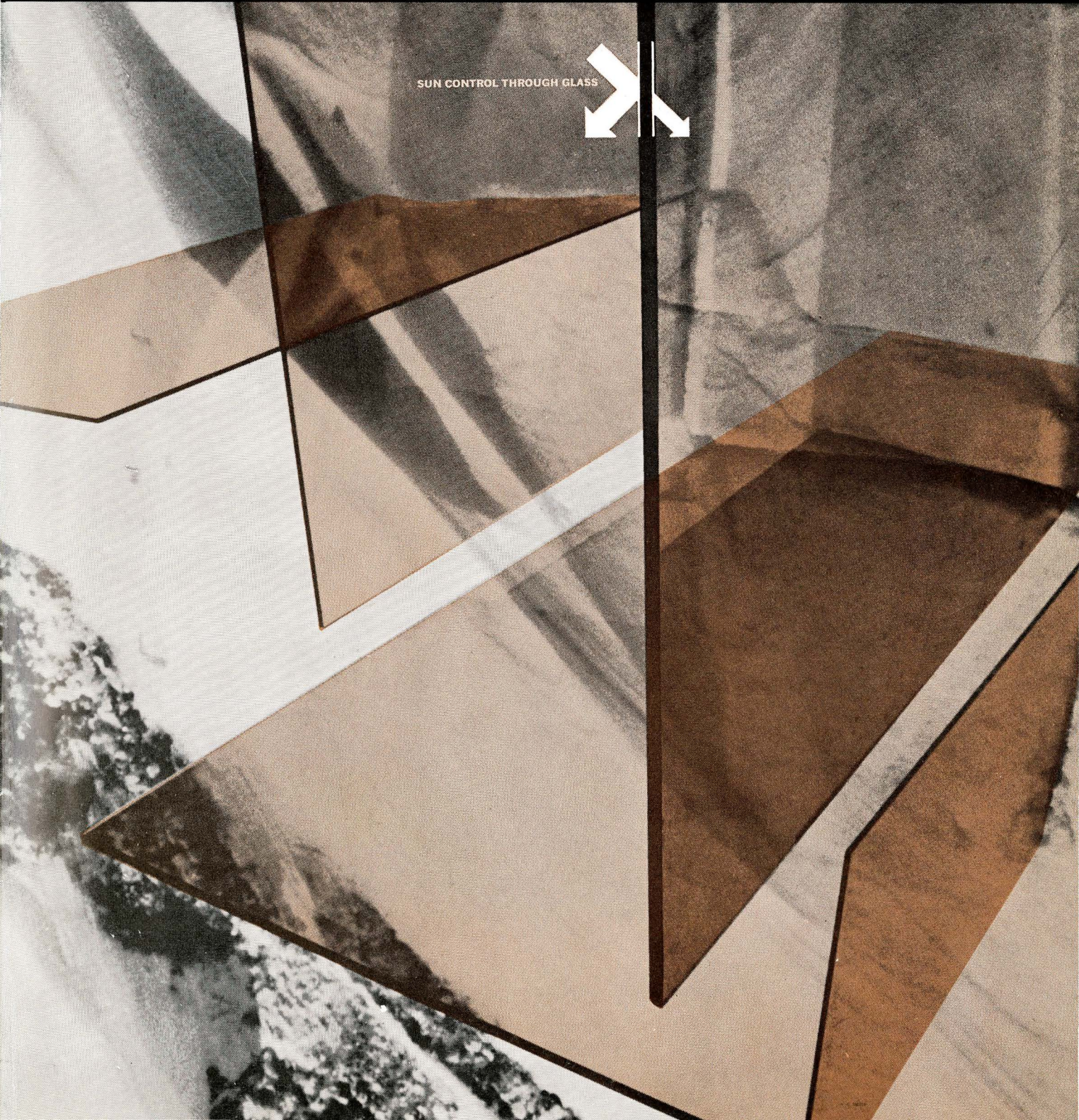
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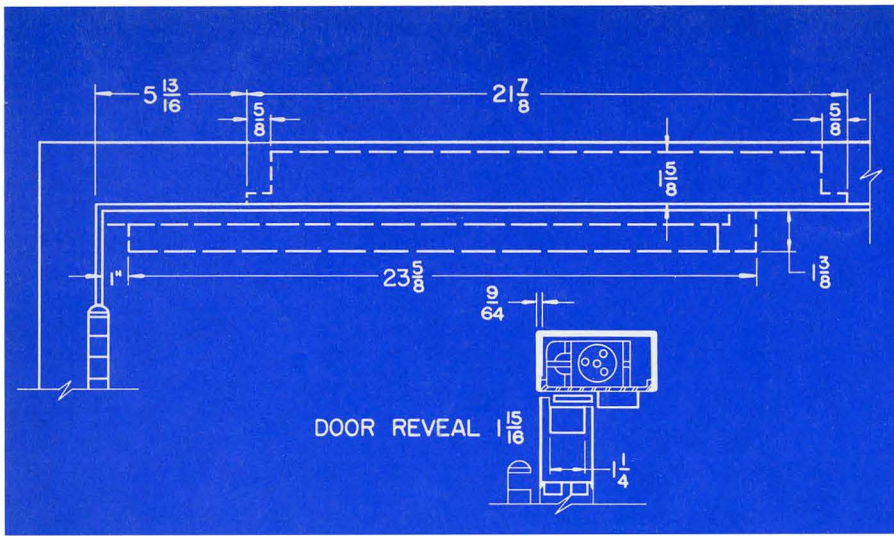
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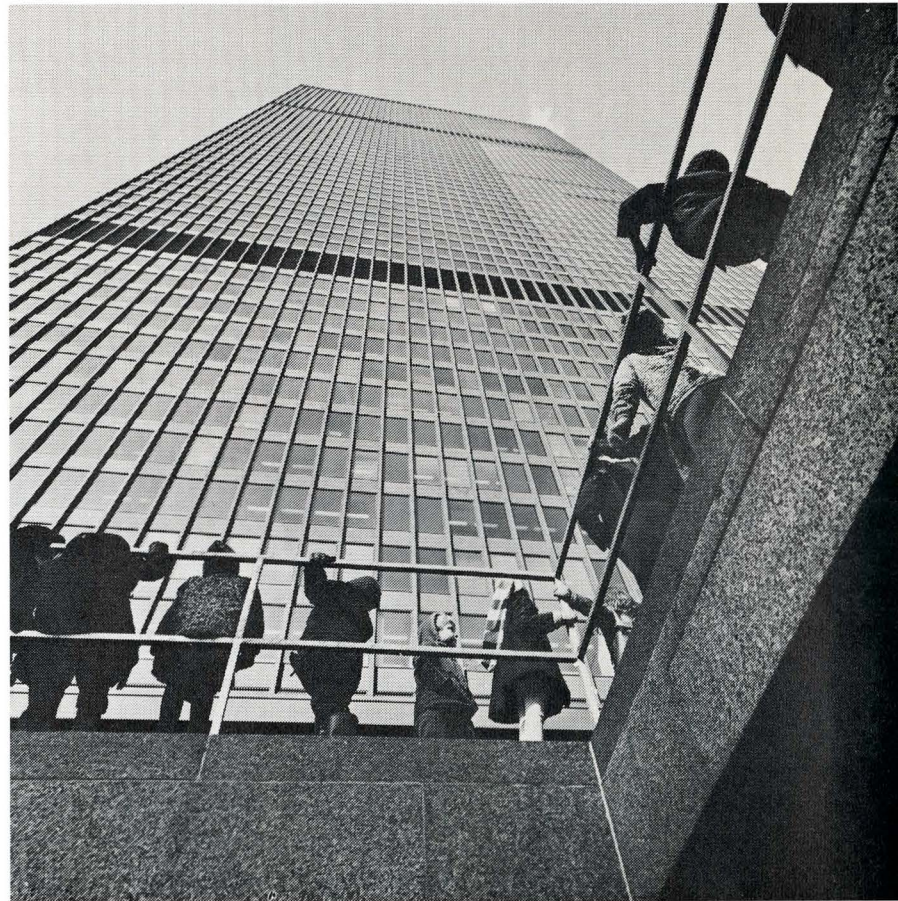
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Architects: John B. Parkin Associates and Bregman & Hamann