RAIC JOURNAL

Serial No 364, Vol. 32, No 12

EDITORIAL *Earle C. Morgan* 450

ARTICLES

Massey Medals for Architecture, 1955
Address of His Excellency the Governor-General 451
Report of the Jury 452

Thirty-five Years of Practice, *A. S. Mathers* 462

Cutting Construction Costs with New Techniques, *W. Sefton* 470

ILLUSTRATIONS

Kiwanis Village, Victoria, B.C.,
Architects, Sharp & Thompson, Berwick, Pratt and Charles E. Craig 455

House of Mr Gordon Smith, West Vancouver, B.C., *Architects, Erickson & Massey* 456

Hamilton House, Peterborough, Ont., *Architects, Blackwell, Craig and Zeidler* 456

Seaway Hotel, Toronto, Ont., *Associated Architects, A. Elken & R. W. Becksted* 457

Simpsons-Sears Industrial Development, Etobicoke, Ont.
Architects, John B. Parkin Associates 458

Convenience Centre, Don Mills, Ont., *Architects, John B. Parkin Associates* 458

St. Anthony's Church, Agassiz, B.C.
Architects, Gardiner, Thornton, Gathe & Associates 459

Toronto Teachers' College, Toronto, Ont., *Architects, Page & Steele* 460

B.C. Sugar Refinery, Limited, Vancouver, B.C., *Architects, Semmens and Simpson* 461

Ontario Association of Architects, Toronto, Ont.
Architects, John B. Parkin Associates 461

Canadian Construction Association, Ottawa, Ont.
Architects and Engineers, Abra and Balharrie; Associate Architects, Burgess and McLean, Hazelgrove & Lithwick 465

VIEWPOINT 476

NEWS FROM THE INSTITUTE 477

CONTRIBUTOR TO THIS ISSUE 479

INDEX TO VOLUME 32 480

COVER

Canadian Construction Association, Ottawa, Ont.
Architects and Engineers, Abra and Balharrie; Associate Architects, Burgess and McLean, Hazelgrove & Lithwick
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Authorized as Second Class Mail, Post Office Department, Ottawa

EDITORIAL

CHRISTMAS IS A TIME FOR REVIEW. To review our acts and thoughts of the past year is to improve our daily activities and achievements in the coming year.

Your *Journal* has shown improvement in 1955 financially and, we trust, as an aid and contribution to the welfare of the Canadian architect. We have endeavoured to make the *Journal* more interesting and more informative, but not with the complete success that we would like. A magazine is only as good as its contributors and our architects have yet to show how we can make the *Journal* the best possible in the field of Canadian architectural literature. Besides the faithful and productive few, there must be a great wealth of hidden and unearthed talent among the many who are responsible for the fine buildings around us.

A common failing of humans is a lethargy only overcome by some stimulus. The fine buildings are produced under the stimulus of earning a living and being in competition. We need a stimulus to bring out the other talents that architects have and could be used to good advantage in the *Journal.*

Mr R. S. Morris, the immediate Past President of the Institute, has suggested a competition for the best article, or articles, contributed to the *Journal* by Canadian architects and a committee has been formed to formulate ways and means of bringing this competition into being as soon as possible. It is hoped that the year 1956 will see the first fruits of this commendable plan. It is never the thought of the Editorial Board that there should be contributions only by architects. It is essential that the *Journal* give the thoughts of leaders in all fields, however related to architecture they may be. It is not that we should have fewer articles and contributions by our allied friends, but more from the Canadian architect.

A review of the architecture of today leads us to thoughts of the future too. It can hardly be denied that we have achieved a measure of clean, clear and sharp logic in the design of our buildings, but what lies beyond this achievement in the separate building? It could be some softening of our razor-sharp buildings, some means of expression for our human way of life but it must go far beyond that and encompass city planning. The ultimate form of our cities should be our great concern.

Cities are known, loved or despised not so much for their individual buildings but for their general effect. What we create is very difficult to change, and the art of building cities today is not practised as well as it once was under different circumstances. Too few architects realize this and rebel. We must put forth more effort to make our cities a true reflection of our time. There must be some restriction of liberty in our building just as there is in traffic control and the architect of today can, and should, help to make the general public realize and accept this fact in its own interest.

Again we are grateful for this opportunity to make public our appreciation of the work of the Editorial Board and provincial representatives, the editor, the publisher and his staff and all the help we get from interested readers. It is again my pleasure to extend, on their behalf, good wishes to our readers and advertisers for the coming year.

Earle C. Morgan
Chairman of the Editorial Board

NEWTON ASSOCIATES

His Excellency and the President, Mr A. J. C. Paine

His Excellency the Governor-General presents the Massey Medals

I appreciate the invitation to be here this evening. I think perhaps I might say a word as to why I received it. When the architectural competitions were instituted, of which this is the third, the agreement with the Royal Architectural Institute provided that the exhibition should be held in Ottawa and that the Governor-General of the day should be asked to open it. In accepting the invitation, I am following the practice of my predecessor.

I am very glad to do so. Architecture is a fascinating subject for the layman, however embarrassing this may be to architects. I think you will agree that the work of this great profession in Canada, as reflected on the walls of this building this evening, possesses the qualities of vitality and imagination and skill. The photographs and drawings will give pleasure to the visitor and should be a source of pride to our community of architects.

It so happens that this architectural exhibition and the showing of Mr Henry Moore's sculpture have arrived at the National Gallery at the same time. That, I understand, was not foreseen, but the two exhibitions can, I think, appropriately open simultaneously, because architecture and sculpture are sister arts – sculpture being never so happily placed as in an architectural setting. There is something else which links the two exhibitions. In the work of so many architects today and in the sculpture of Mr Moore there is a new adventurous approach to the problems concerned – something bold, individual and original – which merits close and sympathetic study.

But I am not going to inflict upon you any further comments on these two exhibitions. I recall a remark made by an English statesman who said something to this effect: –

"I am always more or less happy when I am being praised and not very uncomfortable when I am being abused, but I have moments of uneasiness when I am being explained"!

I shall spare the feelings of the architects and of Mr Henry Moore by doing no explaining. Their drawings and his figures speak for themselves, and speak eloquently. I now have much pleasure in declaring these two exhibitions open.

THE MASSEY MEDALS FOR ARCHITECTURE, 1955

CHAIRMAN OF THE MASSEY MEDALS COMMITTEE

JOHN BLAND

JURY

GORDON S. ADAMSON
LAWRENCE B. ANDERSON
A. J. C. PAINE

REPORT OF THE JURY

THE WORK OF EXAMINING one hundred and nineteen entries submitted gives the members of the jury a strong sense of having travelled quickly throughout Canada. The great diversity of the work is very exhilarating. One can see the architect as an emissary of civilization imposing order on the rude structures of remote settlements, or as coordinator of a team of experts mastering the complexities of vast urban building groups. We have also been startled by the great differences imposed by different climatic conditions on otherwise comparable building problems.

Everywhere architects seem to be making contributions of great value to a higher standard of living, each having selected the environment and sphere of activity most appropriate to his talents.

There were a number of projects considered by the jury to be worthy of consideration for the highest award. Ultimately our unanimous choice for this honor fell on the Kiwanis Village, a small community of row houses for elderly persons in Victoria, B.C., submitted in the category of Group Housing other than Apartment Buildings.

Several aspects of this project make it outstanding. The very program itself is experimental and socially important; early examples will tend to become prototypes whether meritorious or not. This one will repay careful study by all architects who expect to deal with geriatric housing. Working within the strictest limits of space and economy, the designers have developed unit plans and a site plan that show sensitive appreciation for the problems and habits of elderly persons. These plans are well executed in detail; the intimate scale is effectively conveyed in the attractive window patterns of the white one-storey houses. Unlike many low cost groups, it is handsomely landscaped and the layout includes tenants' private gardens and places for group activity outdoors.

It is very gratifying to see that an institutionalized program can be executed with so little officious banality and such a high regard for human personality. There is an important lesson here for many of our public problems.

Among the projects in the category of Ecclesiastical Buildings, the most modest and understated church easily captured the jury's sympathy among other more elaborate designs. St. Anthony's Church in Agassiz, B.C., awarded a silver medal, is a simple wooden building with low eaves and a nave spanned with scissor trusses. Transepts of smaller width intercept the main roof on either side, so placed that beyond them is one final bay for side light windows for the altar at the back of the sanctuary. The transepts accommodate the choir, the sacristy, a side entrance and side altar. At the front of the church the confessionals and the font fall into place at either side of the

entrance. Outside a handsome little porch with a curved roof punctuates a façade of vertical planks.

Every detail of this delightful building shows the discernment of how to do things the natural and obvious way and at the same time with great refinement. No part of it is banal; in the seating accommodation the architect has turned his back on the prefabricated curved plywood pews of the market place, and detailed a wood plank and strap iron bench and kneeler of real distinction.

Also in the religious category, St. Giles Presbyterian Church in Peterborough shows an excellent solution for the situation where social and educational activities are placed in a raised basement. The jury liked the way in which the side elevations are designed. The nave is a room of great dignity.

Certainly one of the most important categories is that of Educational Buildings. A number of excellent schools were submitted. The medal winner was judged to be the Toronto Teachers' College, a very urbane building with a plan type suitable for many situations. It fits a city block, and its corridors and lobbies are turned inward toward an enclosed courtyard of generous size. Classrooms are in two floors so that the entire building is of uniform height. Owing to this fact and to multiple repetition of a narrow window module, the exterior appearance is undifferentiated and highly disciplined. This relative monotony serves to dramatize by contrast the most important space, a high lobby behind a curved wall, containing a fine ramp.

The George Harvey Vocational School, York Township, is mentioned by the jury as another excellent plan for a large school in the city. A square one-storey skylighted industrial arts area is completely separated from the classroom wing, no doubt for acoustic isolation. A wing attached to the classroom block contains the auditorium and gymnasium. This building has an impersonal, machine-like perfection in its proportions and details.

The Collingwood District Collegiate Institute has a highly workable plan in which the only questionable element is the separation of gymnasium from dressing rooms by a main corridor. The exterior is executed in architectural concrete, with coloured spandrels. Judging by the presentation this treatment has turned out well.

The Elementary School of West Vancouver disposes its elements in a fairly standard L-shape, but the entrance is by means of an exterior scissor-like ramp, the lower blade leading to a sheltered play space under the downhill classrooms. This school has a very agreeable exterior on which wood sheathing has been skilfully used.

Awarded a silver medal in the Office Building category, the B.C. Sugar Refinery, Limited exemplifies the fine tradition of the company that wants to be housed in its own private headquarters. The building is two-storey, L-shaped, and features a well-detailed entrance using dark polished stone. The whole project is in excellent taste, comfortable and elegant without ostentation.

Entirely different in purpose and character, but worthy of special mention, is the Office Building at 111 Richmond Street West, Toronto, a fifteen-storey urban rental building, very knowingly designed for maximum efficiency and uniformly desirable rental space. While lacking in variety of vocabulary, the building has a good urban texture.

For sheer physical size and economic importance, some of the projects submitted in the category of Industrial Buildings commanded the jury's attention. The complex group including two plants, one for Simpsons-Sears Ltd. and another for Photo-Engravers and Electrotypers Ltd., together with a power plant to serve them was awarded a silver medal in this category, and the factory for Yardley of London is singled out for special mention. Both of these projects show a complete mastery of industrial building form. Engineering elements, notably in the power plant of the medal project, are given convincing architectural meaning. Planning relationships are obviously studied with complete information and great discernment for essentials. Areas and surfaces of gargantuan size are handled with complete confidence.

Kindred qualities are apparent in the medal-winning Convenience Centre at Don Mills, considered best in the category of Commercial Buildings. The buildings in this project are the first of a series that will eventually become an outlying retail centre of large size; the site planning shows regard for modern parking requirements. As compared with other contemporary and past constructions that cater to wide popularity among the consuming public, it is amazing in a way to find this composition so lofty an abstraction, as though Bach were being played at a drive-in movie. With a very limited palette of glass, metal, and masonry, the architects have composed in a rectangular style of great finesse, allowing little room for the traditional individuality of the separate shop or for the customary anarchy of competitive advertising. It will be interesting to see whether such a complete volte-face can endure.

In the Hotels and Restaurants category, a silver medal was awarded to the Seaway Hotel in Toronto. Here the usual elements of a small urban hotel, including facilities for parties and conventions, are transposed to a location at the side of a highway, presumably better adapted to arrival and departure exclusively by automobile. The architect has made a bold attack on the problem, using some of the best features of the one-storey motel in working out his solution. Bedrooms and social rooms are clearly separated so that they do not interfere with each other.

Architects will probably be already familiar with a project winning a silver medal in the category called Miscellaneous, the Headquarters of the Ontario Association of Architects. The way in which the designer of this building has handled the problem of entrance on a steeply sloping street frontage is a wonderful tour de force, although perhaps it does cause an exaggerated emphasis for a place that is not meant to receive very large crowds. The internal combined exhibition-ramp and the excellent social space on the lower floor are successful features of a highly unusual building.

There were a number of categories in which the jury decided not to award silver medals, but we should like to call attention to several projects which we thought to be of better than average quality.

The Apartment Building at Benvenuto Place in Toronto has a praiseworthy exterior character, the windows and balconies being particularly well done; in its planning aspects this building yields to expediency.

The Health and Welfare Building in Vancouver is a

good-looking building. Perhaps through lack of complete knowledge of the background conditions, it is hard to decide from the presentation how well justified are the special façade treatment of the street floor and the introduction of ramps as main vertical circulation. The latter make for a dramatic lobby.

Among the Hospitals there were several very serious works. The most exciting were two small rural structures in Manitoba, the best of which was the Hunter Memorial Hospital in Teulon. This building is thoroughly remarkable and a trail blazer, as it provides well-rounded medical facilities on a miniature scale at very low unit cost. One cannot escape the strong conviction that the architects of this hospital are making a unique social contribution that ought to be widely publicized. Perhaps they are trying so hard that some values are being lost sight of. Even with such a climate and such a budget, is it wise to invest in so many interior rooms? Could not loving care have brought more grace to the wall treatments?

In complete contrast is the more familiar institutional structure represented by the School of Nursing, St. Joseph's Hospital, Toronto, a nine-storey building, dormitory except for the first two floors. It is very competently done.

Among the entries in the category designated Recreational the jury debated the merits of three submissions. The Sherbrooke Baseball Stadium uses precast, prestressed concrete elements to assemble a thoroughly excellent supporting frame culminating in a cantilevered roof beam. Had the architect made the most of his opportunity he could have composed his ramps and walls in a fashion more harmonious with the frame.

The Naval Gymnasium for HMCS Naden, Victoria, is an expert addition to an existing swimming pool. The plan works well. Of interest are the boxed-in truss ends, presumably for brightness and sun control.

The Festival Theatre at Stratford has earth-supported seating over an angle of 270°, covered with a canvas tent. It seems an excellent solution to a special problem. The presentation does not allow a confident judgment as to its architectural merits, considering it as a building.

There remain the two categories of private houses, the first for those costing less than $15,000, and the second for those costing more than $15,000.

The Gordon Smith House in West Vancouver, awarded a medal, is Pacific Coast residential work at its best. Suspended on a fine wood frame, and in a manner slightly reminiscent of Japanese architecture, a magnificent sequence of rooms floats in space, surrounded above and below by the luxuriant verdure of the rain-forest. Exterior cantilevered passageways and stairs make a liaison with the lush environment. The living space enclosed by the house seems to be an intensified version of the forest-space, and the natural and the artificial enhance each other. There were other good west coast houses, but none could equal the poetry of this.

Among houses from other regions, a fine two-storey house in Winnipeg seemed composed on the idea that on level land and a low budget in a climate of long cold winters it is justified to depress the living floor to near the footing grade. Although the jury did not endorse this premise, they found this house to be done with skill and discipline, with fine proportions and good use of materials. The depressed garden is well handled. The open well from living room to master bedroom contributes a great deal without consuming very much space.

The Beaumont House at Sault Ste. Marie deserves mention for its very rational plan. The living room is a bit unrewarding, being dominated by its window.

The Hamilton House in Peterborough was awarded a silver medal in the category of higher-priced houses. It is a triumph in the adaptation to unfavourable site conditions; a difficult slope and restricted outlook are made to seem advantageous. From the street the house is neat, trim, and elegant in appearance. Inside this distinguished exterior there is a fine spiral composition of space, each room subtly related to the others. The whole is very sophisticated but disarmingly modest at the same time.

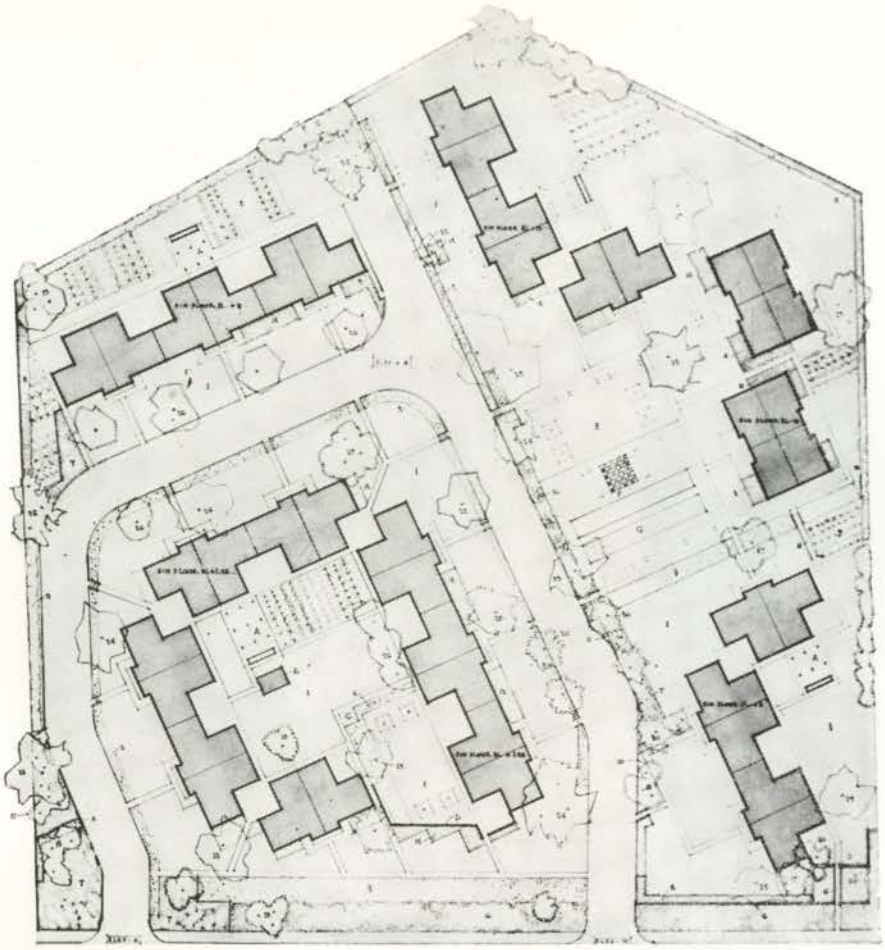
In discussing the residential categories, the jury wishes to point out the seemingly great inequity in using total dollar value as a way of separating two categories. The amount chosen, $15,000, appears to be rock-bottom except in British Columbia where it encompasses relative luxury. If two categories are needed here it would perhaps be sounder to classify on the basis of area or volume.

Reconsideration of some of the other categories may also be indicated; there appear to be almost no transportation buildings being built, for example.

It is gratifying to note that the number of entries is substantially greater than at the time of the last Massey Awards Jury in Architecture. There is obviously a genuine interest on the part of the profession in the recognition accorded to medal winners, and the cause of better building is sure to benefit by the public attention given to this program.

It is a pleasant honor to serve on the Jury of Selection in the presence of work of such high quality.

THE GOLD MEDAL



Kiwanis Village, Victoria, British Columbia

Architects, Sharp & Thompson, Berwick, Pratt and Charles E. Craig

FAIRFIELD PHOTOS

RESIDENCES

SILVER MEDAL

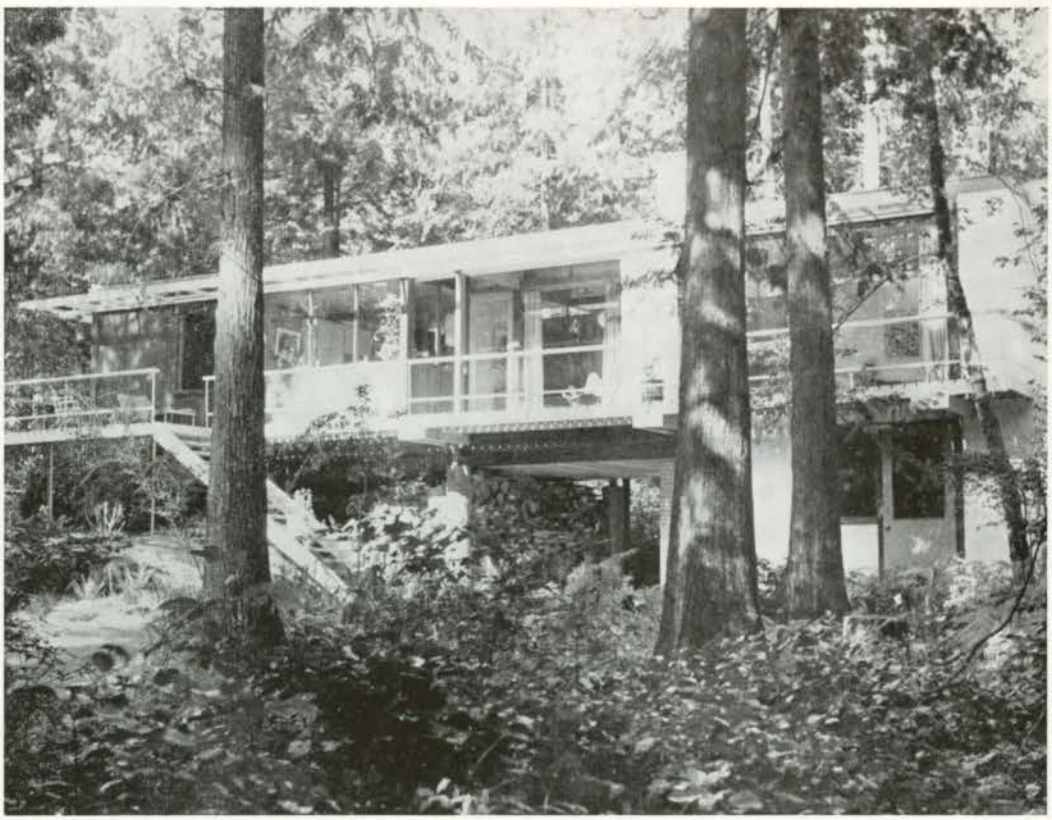
Residences over $15,000

Hamilton House, Peterborough, Ontario

Architects, Blackwell, Craig and Zeidler

SILVER MEDAL

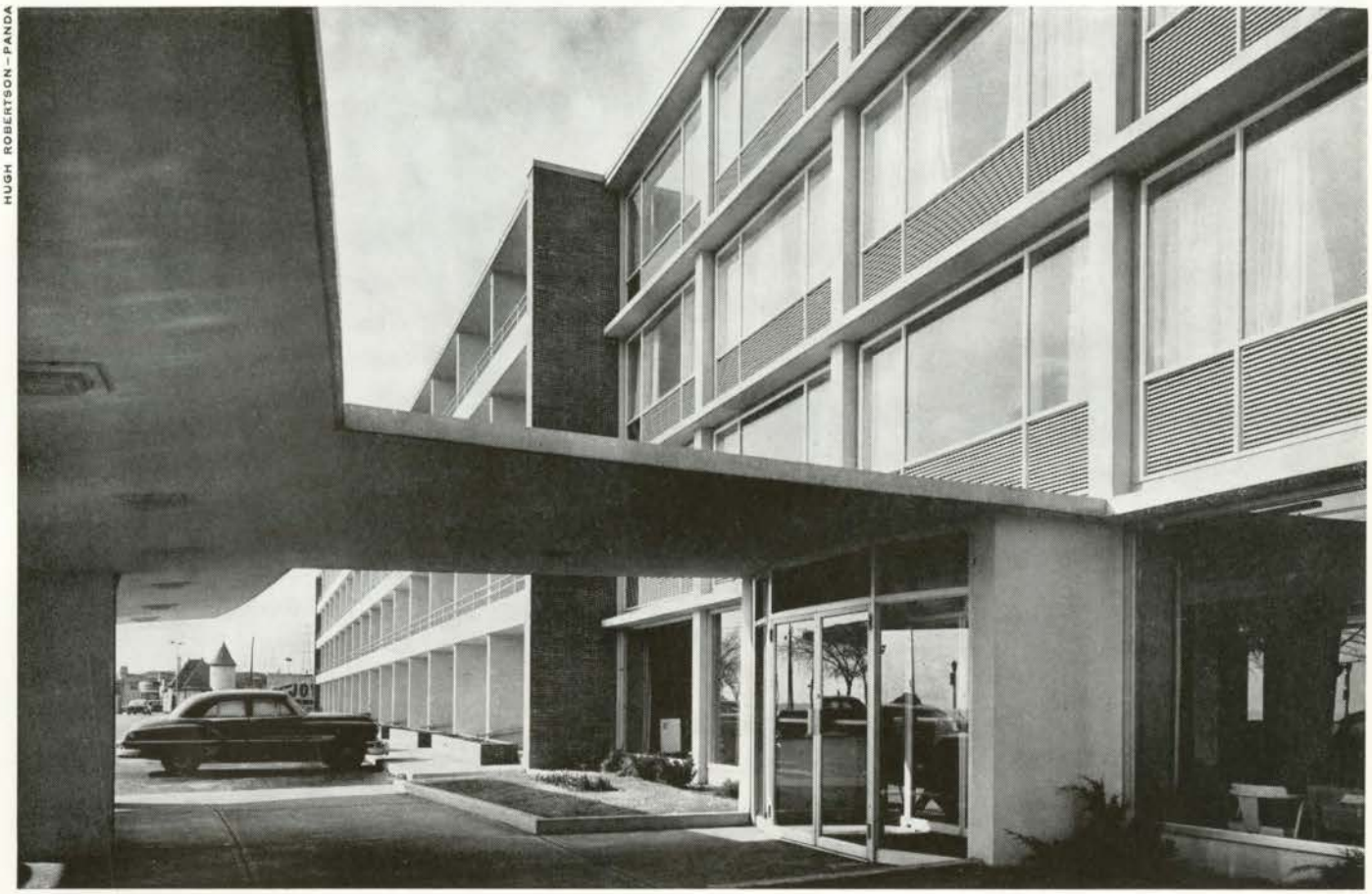
Residences up to $15,000



House of Mr Gordon Smith
West Vancouver
British Columbia

Architects, Erickson & Massey

SILVER MEDAL



HUGH ROBERTSON – PANDA

Seaway Hotel, Toronto, Ontario

Associated Architects, A. Elken & R. W. Becksted

COMMERCIAL BUILDINGS

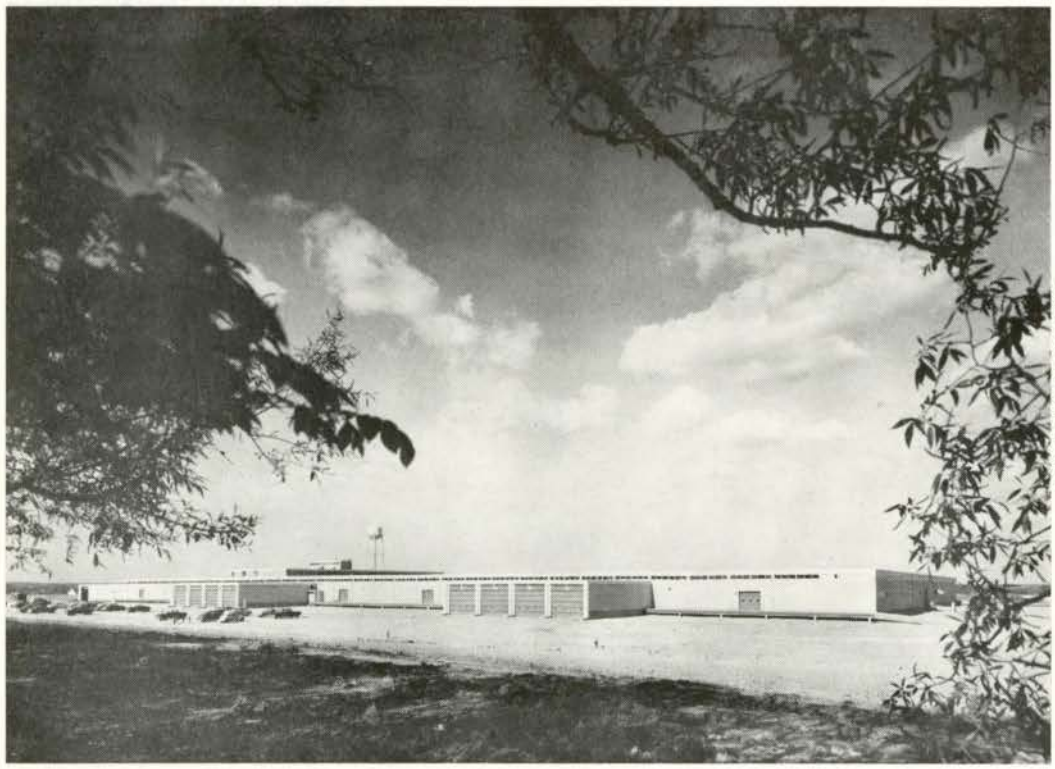
HUGH ROBERTSON – PANDA

SILVER MEDAL

Convenience Centre
Don Mills, Ontario

Architects,
John B. Parkin Associates

INDUSTRIAL BUILDINGS



HUGH ROBERTSON – PANDA

SILVER MEDAL

Simpsons-Sears
Industrial Development
Etobicoke, Ontario

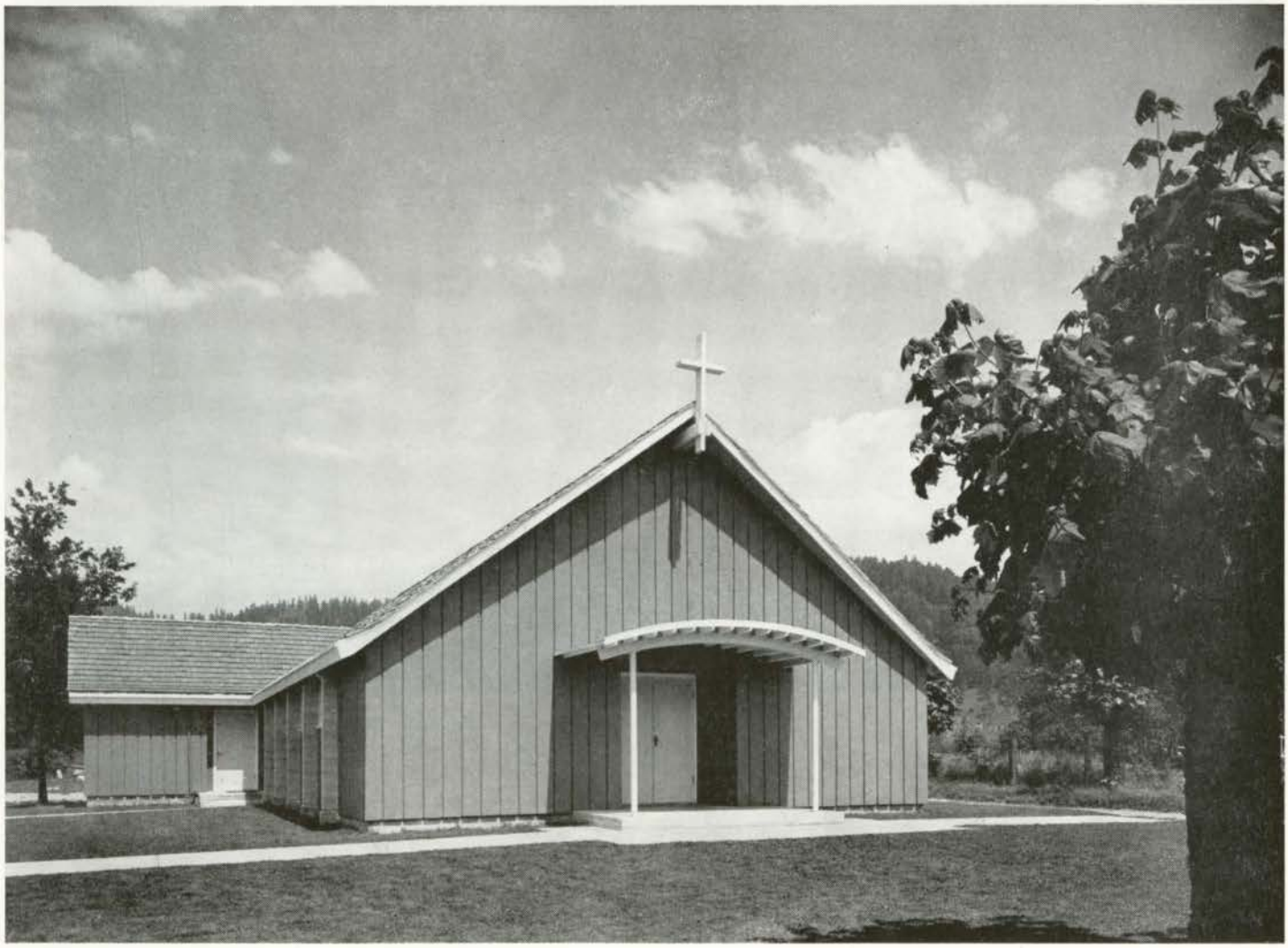
Architects,
John B. Parkin Associates

ECCLESIASTICAL BUILDINGS

St. Anthony's Church, Agassiz, British Columbia

SILVER MEDAL

Architects, Gardiner, Thornton, Gathe & Associates



SELWYN PULLAN

EDUCATIONAL BUILDINGS

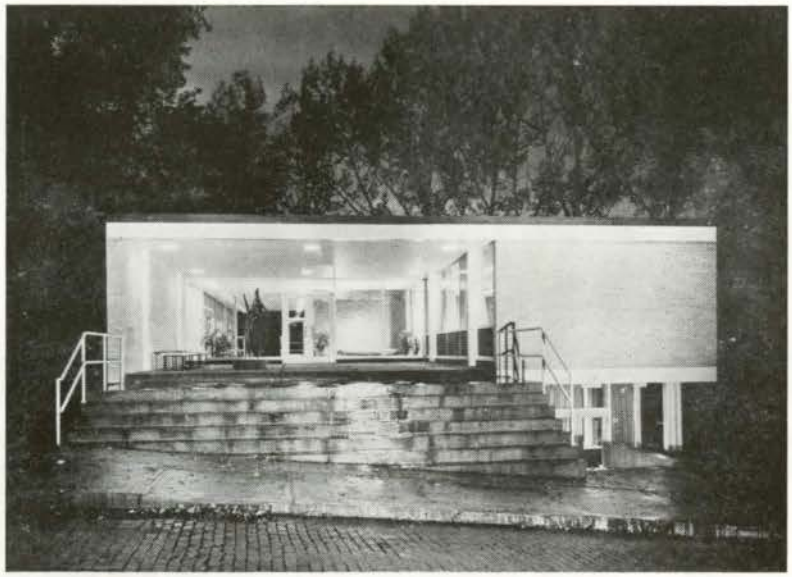
SILVER MEDAL

HUGH ROBERTSON - PANDA

Toronto Teachers' College, Toronto, Ontario

Architects, Page & Steele

MISCELLANEOUS



HUGH ROBERTSON – PANDA

SILVER MEDAL

Ontario Association of Architects
Toronto, Ontario

Architects, John B. Parkin Associates

OFFICE BUILDINGS

SILVER MEDAL

GRAHAM WARRINGTON

B.C. Sugar Refinery, Limited, Vancouver, British Columbia

Architects, Semmens and Simpson

Thirty-five Years of Practice

A paper read before the Vitruvian Society, Toronto

by A. S. Mathers

THE ANNOUNCEMENT OF THIS MEETING states that I am to address it on the subject "thirty-five years". That I think gives me not only the choice as to what thirty-five years, as well as what I wish to say about them. For this latitude I am grateful, for I am inclined to be somewhat discursive in what I have to say on any occasion. Tonight, however, I intend to talk about the thirty-five years which have elapsed since the year 1919, when I was admitted to associate membership in the OAA. The Great War had come to an end with Germany defeated. Great Britain, France, Italy and Belgium practically bankrupt and the USA riding high on a wave of post-war prosperity, which to some extent was reflected in Canada.

Unlike the conditions which prevailed during the Second World War, building and business generally had gone on more or less as usual during the war and the pre-war architectural firms were still intact and active. In fact, life continued for a while in the pre-war style with the Governor-General going to the Woodbine for the running of the Plate, resplendent in full dress uniform in a magnificent carriage, escorted by the plumed and helmeted mounted guard of the Governor-General's Body Guard. Frank Darling still was driven to his office in Leader Lane beside his chauffeur in his sleek Pierce Arrow, and Forsey Page could be seen on Sundays at the wheel of his grey green Straker Squire.

Charlie Chaplin was the newest movie sensation and the hairy chest of Francis X. Bushman on the screen of the Strand Theatre caused the teen age girls to swoon and sigh!

The Misses Mortimer Clark went shopping in their horse drawn carriage and Sir Henry Pellat still lived in Casa Loma. In the old Department of Architecture, Professor Wright was lecturing on water closets and the U. of T. football team, and Professor McConnell was still using an indelible pencil to correct the students rendered drawings while they were still wet.

In those days the City did not extend much north of the Hill, its population was a mere 450,000 and Danforth Avenue was still a country road. The Union Station was building across the street from the Queen's Hotel and the gaunt ruins from the fire of 1907 were still the most insistent visual feature of Front Street.

The Ontario Association of Architects had less than three hundred members or about half the total number of men who called themselves architects. Nevertheless, the Association was recognized as the mouth piece of the profession and its members respected as the leading practitioners.

I will not burden you with the history of its efforts to achieve the very satisfactory position which the architect enjoys today, except to pay tribute here to such men as Frank Wickson and H. P. Hynes without whom the profession could not have successfully obtained its objective, and to Forsey Page under whose Presidency the all important Architects' Act was enacted.

As I informed you a moment ago, I entered the profession in 1919, just after the end of the Great War. As I look back, I realize that the year 1919 also marked as nearly as can be marked, the end also of an architectural age, when the ways of building and the ways of architects were to begin to change beyond recognition.

Therefore the architect drew the plans, wrote the specification, inspected the work and issued the certificates of payment. Building construction was almost exclusively of the wall bearing type with timber or steel beams and wood floors carried on masonry walls. Mechanical services consisted of electric wiring for light, plumbing, and heat was supplied from warm air furnaces or hot water boilers, to registers or cast iron radiators. Structural and other calculations were made by the architect or a senior draughtsman, and the drawings were invariably made in ink on linen.

In Toronto only one firm Darling & Pearson, ever employed a structural engineer and no one at all engaged a mechanical engineer. Reinforced concrete was a relatively new form of construction for which the design formulae were patented and proprietory in nature, which meant that a royalty per square foot was demanded if this or that system was used. The Hennibique system was perhaps the most popular. How much of this royalty business was bluff, it is difficult to say, but the effect was to discourage the use of this type of construction, until after the war. By 1919, however, the first graduates of the Department of Architecture were beginning to find their place in the profession. They had received a sound and thorough grounding in structural design and the war had disrupted the old order so much that the proprietors of those systems of design ceased to guard their presumed perquisites with the same vigour as formerly.

Slowly but surely the framed structure came to replace the older type, bringing with it an increasing burden on the architect who attempted to adhere to his traditional practice of making his own calculations. Obviously the architect had to find a way of relieving himself of the tedious and time consuming business of doing the vast amount of arithmetic involved. In spite of the fact that the young architecture graduates had received a thorough training in the theory of structures and were competent to do the work, rarely could one be found who was willing to undertake this tedious task. In any case, their interests were in other than the mathematical aspects of building design.

The entry into the picture of the consulting structural engineer as a specialist to aid the architect was the inevitable result, and his establishment as a permanent cog in the wheel, was rapidly accomplished. In like manner the consulting mechanical engineer joined the team, as the result of the increasing amount and complexity of the mechanical services required.

While the fundamental features of architectural practice were being altered in this manner, changes were also taking place in the techniques of building and the organization of the work in the field. Prior to 1919, indeed until about 1925, there was no such thing in Toronto as a general contractor. Work of the greatest magnitude was still being carried out under the

system of separate trade contracts, and most residential work in so far as masonry and carpentry were concerned, was executed on a time and material basis, with the architect on behalf of his client purchasing all materials and employing all labour. A great deal of Eden Smith's residential work was carried out on this basis. General contracting, however, had become the rule in Montreal and in the larger American cities, which had the result in Toronto that the larger undertakings such as the Union Station being handled by out of town general contractors. In spite of the growth of the general contracting system, however, Toronto owners were hard to convince of its merits and it was not until 1931 that the University of Toronto finally abandoned its preference for separate trade contractors and entered into a general contract for the Botany Building.

The general contractor, of course, was a natural and logical result of a basic change which had started to come to pass in the technique of building.

As late as 1914 carpenters were using hand planes for smoothing and moulding finished woodwork. Window and door frames were made on the work. Window sills of stone were cut on the job. All plaster and mortar and concrete were mixed on the work from the primary ingredients. Paint was mixed on the work. Glass was cut on the work, and so on.

By 1928 most of these operations were performed elsewhere. Prefabrication, which the building industry has so often been accused of ignoring, was beginning to become what it is today, the rule rather than the exception. The builder gradually ceased to be the fabricator, and became merely the assembler. The trade sub-divisions of the industry gradually ceased to have the same significance except to the trade unions, who also were coming to lose control of fabrication and to be merely the assemblers. Obviously this trend placed a new responsibility on someone, either the architect or the general contractor, who would have to set up some kind of administrative machinery to handle the off site fabrication of a large percentage of the items which made up the building. Fortunately for the architect this task was to become the responsibility of the general contractor. I say 'fortunately for the architect,' because the off site fabrication of components at once involved the architect in duties which were unknown to his predecessors thirty-five years ago. No architect was bothered with that invention of the devil – the shop drawing. He made his detail drawings and gave the original on brown paper to the tradesman concerned and then went out to the job to see that it was followed.

Today supervision and inspection is only partially carried out in the field for, in addition to inspection in the field, there is the checking of hundreds of shop drawings and the inspection of the work in the shop before it is delivered to the work. The additional burden placed on the architect as a result of universal prefabrication of components is enormous, and when shop work is carried out as it often is in cities far away like Ottawa, Montreal or Quebec, the burden is greatly increased.

On the other side of the picture, however, modern building methods have relieved the architect of a great deal of the field work which he formerly was required to perform.

No longer is it necessary for him to stand watch over the mixing of concrete or the erection of the structural frame, or to assess by eye and experience the quality of lime cement plaster, and paint. He specifies that these things and operations conform to standards established by such bodies as the CSA, the ASTM, etc., and delegates to a qualified Testing and Inspection Laboratory the duty of performing the necessary tests and inspections. This delegation is authorized by his specifications and thus the responsibility for making those tests and inspections in the first instance ceases to be his. His responsibility consists in seeing to it that the tests and inspections are made, and that he acts on the information given to him by the Testing and Inspection Laboratory. This procedure is a new thing in architectural practice dating back less than fifty years and its inherent dangers should be fully understood.

In this connection I recall an incident that happened many years ago. A firm of Toronto architects was employed to design and supervise the construction of a group of grain storage bins for a firm of flour millers. One of the partners in the architectural firm was an authority on concrete construction of the type involved and designed the bins as cylindrical silos of reinforced concrete.

As they were being built he was constantly on the work supervising in detail the form work, the placing of the reinforcement and the mixing and pouring of the concrete. He however contracted a bad cold during the construction period which kept him at home and away from the work for a few days. The contractor, who because of the rigidity of the architect's control was losing money, took advantage of his absence to drastically reduce the quality of the concrete.

To make a long story short, the silos, when filled, collapsed and the break was found to have occurred at the point where the contractor had proceeded in the architect's absence.

The owners sued the contractor for damages and the contractor went into bankruptcy. They then sued the architect and in the course of the action all seemed to be well for him until the owner's lawyer asked the architect to produce the reports of the cylinder tests which the specifications called for. The architect knew all there was to know about concrete, but had failed to require the contractor to carry out the terms of the contract with respect to test cylinders.

The court found the architect guilty of failing in his duty to enforce that part of the contract and assessed damages against him of $50,000.00, the payment of which ruined the architect.

What this architect had failed to realize was that by including in his specifications a requirement that was a new one, he could not ignore it and proceed under the old rules. It was a new game with new rules.

I think that, perhaps, the greatest change in practice that has taken place in the past thirty-five years, is in these changes in the rules. The architect is no longer the free agent, the unquestioned authority that he once was. In that respect he is somewhat like the physician. Thirty-five years ago when a doctor told you that you had gall stones, you had them and no one could dispute his word. Today the X-ray says definitely gall stones or no gall stones and the physician who would fail to have X-rays made to back his diagnosis would be just as culpable as the architect who failed to have the concrete tested. The day of hunches and personal opinion in assessing the quality of materials is over. We live in an age of accurate scientific inspections and tests and we must use those aids for our own and our clients protection.

However, while the practice of architecture has changed and the techniques of building have been revolutionized, architects themselves are much the same kind of people as they have always been.

By and large they are a strange and varied lot, artists, constructors, administrators, they combine in a single individual artistic imagination and technical skill together with downright business ability and integrity, which is not surpassed by any other group.

They have been accused of being visionaries and dreamers. The architects' answer to that I think was best given by Mr Chas McGuiness of Boston who answered by saying—"Yes, and what's more *our* dreams come true!"

In their observance of professional ethics, I think that the older generation was just as punctilious as the present.

Some adopted the "go getter" procedure in obtaining work, stalking their prey like the predatory beasts of the jungle, while others preferred the eminently respectable method of the spider who first spins his web and then waits patiently for his victim to enter. Both schemes worked, but my observations have lead me to the conclusion that the spider boys were and are surer and deadlier. The danger of the web technique, however, is that not only has the web to be spun but the spinner should never invite another spider to share it. I recall the occasion when an old architectural friend of mine introduced a

client of his to a fellow architect and so praised him as an architect, that the client switched architects!

However, one of the greatest satisfactions of my life has been the number of fellow architects among my closest friends, none of whom have ever stolen a client nor have ever been poached upon by me. I shall never forget my friendship with the late John M. Lyle who was not only active in the promotion of architecture and architects, but took a keen interest in and gave his time to furthering the cause of the arts in general, and his work on behalf of the old Civic Guild awakened public interest in town planning. He was an Academecian of the Royal Canadian Academy and President of the Art Gallery of Toronto, a Fellow of both the RAIC and the RIBA, and had been decorated by the French Government for his work on behalf of the French Red Cross in the Great War. His death was a sad event for his friends and in the profession.

He was perhaps the greatest friend that the profession had in the years between the wars. His interest in the younger men was sincere and whole hearted. While he was a member of the best clubs in town and his personal friends were among the great figures of finance and industry, he spent almost every lunch hour with a group of young architects at the Diet Kitchen. Here, at his instigation and under his guidance, was hatched a scheme for a series of architectural exhibitions which until the Hapsburg Show a few years ago held all records for attendance at the Toronto Art Gallery. During the depression when draughtsmen were walking the streets, John M. suggested a Beaux Art Ball to raise funds for them. Two of these were held in the Royal York Hotel. They were fabulous affairs, the like of which had never been seen before and may never be seen again. Certainly there will be no more of them if the police can prevent it.

While I have digressed to say something about one individual, I must say something also about the profession as a whole as well. The Institute as we know it today is a far different affair from what it was thirty-five years ago. For one thing, it has a *Journal* which is interesting and makes money, instead of operating on an annual deficit. Its rescue from insolvency and sterility was due to the efforts of Lyle who introduced the new typography and format, to Waters who put it on its financial feet, and to Eric Arthur who brought to it an editorial pen of distinction. The *Journal*, however, is not the only distinctive feature of the Institute, which also has a College of Fellows whose sartorial perfection of annual meetings cannot be matched by any other body of architects in the world.

How this august body came into being is an interesting thing in Institute affairs. Some years ago, and before I was elevated to Fellowship, a meeting of the Fellows was held as a part of the Annual Meeting of the RAIC at the Seignory Club.

In the course of that meeting which was a lively one, I am told, a difference of opinion arose between a prominent Montreal architect and a distinguished professor of architecture, which developed into a violent altercation involving discourteous references to maternal ancestry, hurled across the floor in both directions by the protagonists and winding up with threats of physical violence, which forced the assembly to restore order by forcibly restraining the combatants. As one result of this noisy breach of parliamentary decorum the whole procedure of the Fellows meeting was overhauled.

A College of Fellows was established complete with ritual embodying suitable mumbo jumbo, Dean, Chancellor and Registrar. Fellows now attire themselves in sombre academic gown and cap, with scarlet collar and pendent gilt medallion, and assemble in solemn convocation answering to the Registrar's call of the roll with the classic affirmative adsum.

Seated according to the place of a monastic choir they discuss in muted tones matters of great unimportance. Gone is the old free for all style of debate and with it the importance of the discussions. It is a question whether the creation of a somewhat spurious minor order of chivalry has not been a much too drastic discipline.

While the Fellows have been effectively lulled to sleep the Ontario Association has been awakened by the loud and blatant clamour of its Annual Convention. To those of us who will remember the quiet and earnest meetings of the Association in the Music Room at Hart House, the convention is at least something different. The presence of the exhibitors, the imported speakers at the luncheons, the badges with our names on them, the seminars, the public address systems, the ladies and the Star Light Dance Band at least indicate that architects are, after all, not much different from other mortals.

Construction House, Ottawa

Architects and Engineers
Abra and Balharrie

Associate Architects
Burgess and McLean
Hazelgrove & Lithwick

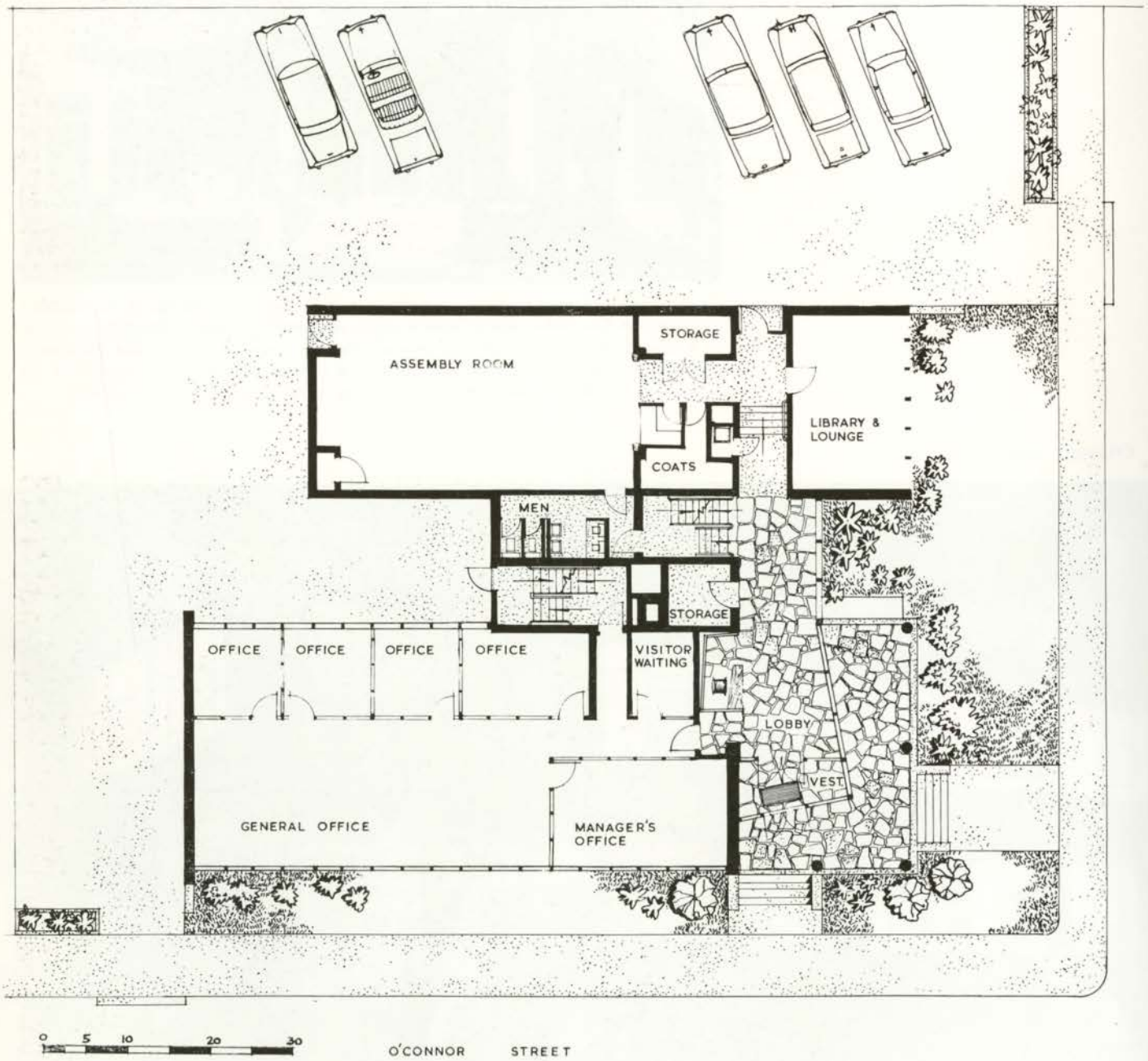
General Contractor
Ross-Meagher Ltd.

MALAK

The building is planned to provide for the immediate space requirements of the Canadian Construction Association administration offices and auxiliary spaces. The upper floor will be used as rentable space, and will provide space for future CCA use. The building is designed to support four additional floors and service facilities are adequate for the expansion. The site provides limited car parking space for CCA staff and visitors.

O'Connor Street elevation

MALAK


ASSEMBLY ROOM
STORAGE
LIBRARY & LOUNGE
COATS
MEN
STORAGE
OFFICE
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OFFICE
VISITOR WAITING
LOBBY
VEST
GENERAL OFFICE
MANAGER'S OFFICE
GLOUCESTER STREET
0 5 10 20 30
O'CONNOR STREET

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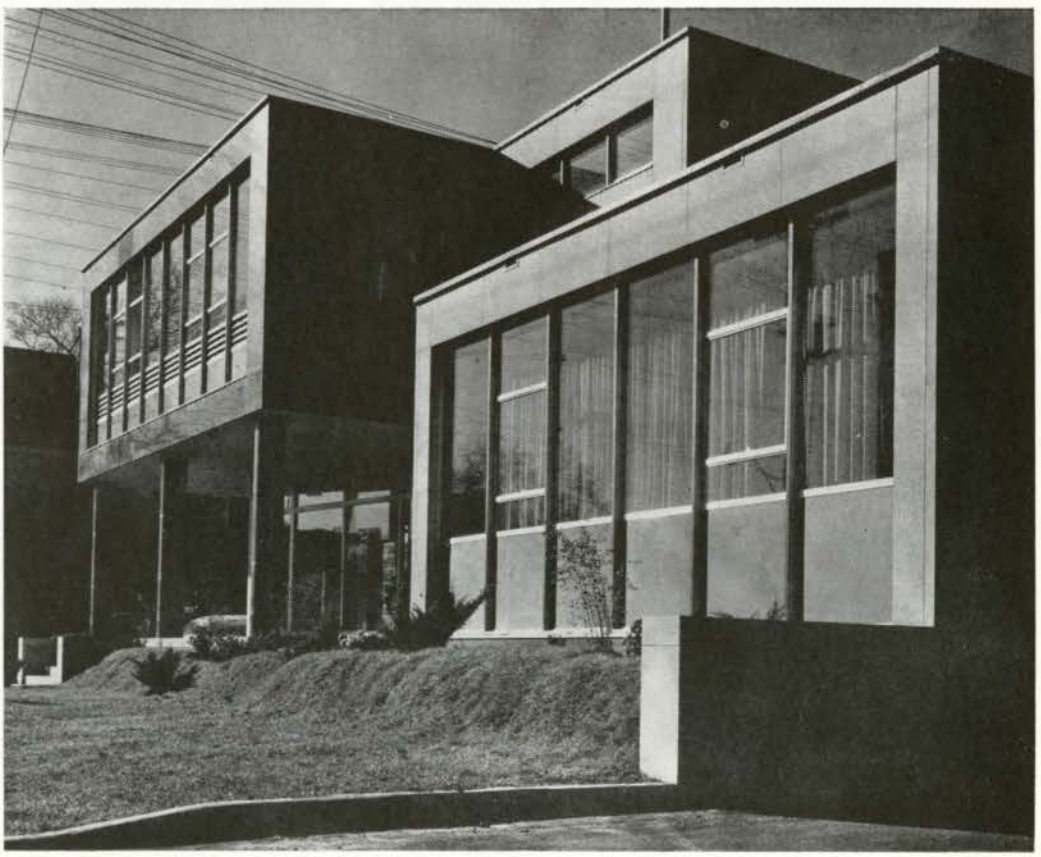
The lobby floor is a continuation of the multi-coloured slate landing outside the main entrance. The inner wall is faced with marble.

Lobby

Polished granite, cut limestone and limestone shoddy form the masonry exterior. The metal window units consist of insulated, tinted glass sections and metal spandrels or louvres.



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Gloucester Street elevation

Addresses at the Official Opening

W. G. Malcom, President of the Canadian Construction Association: It is with great pleasure that I open these ceremonies connected with the official christening of the Association's new headquarters. The word "christening" may be questioned, but our building is to be given its name today and there are many present who regard this project with proper parental interest. It was conceived quite some time ago and the period of labour was prolonged, but those who regard this building as their "baby" have every reason to be proud of their efforts.

And, as at other christenings, it is a happy occasion because it is marked by a gathering attended by members of the family and close friends such as we have here today. Speaking on behalf of the Executive Committee, it is particularly gratifying to have so many of our Past Presidents with us. Much of the Association's present status that is currently apparent is due to their sound foundation work in previous years.

I am also very happy that the Building Committee sent invitations for today's function to the architects, contractors and suppliers of the project. All too often they are not given recognition at such ceremonies marking the opening of other buildings.

1) Library-lounge

2) Board room

3) General Manager's office

4) General office

1

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2

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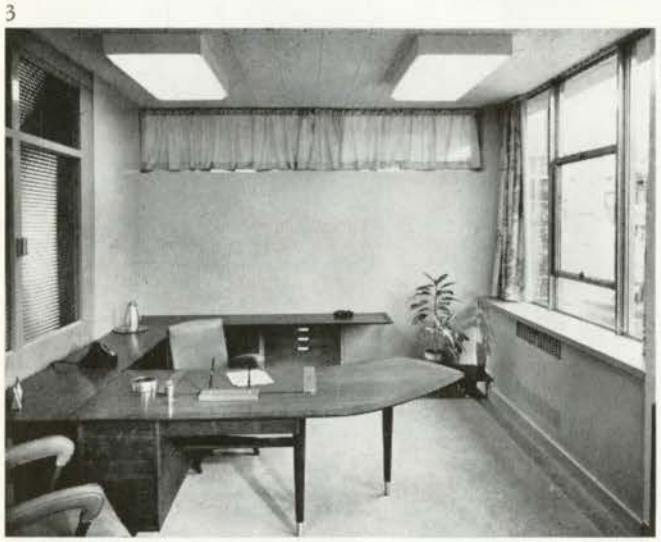
3



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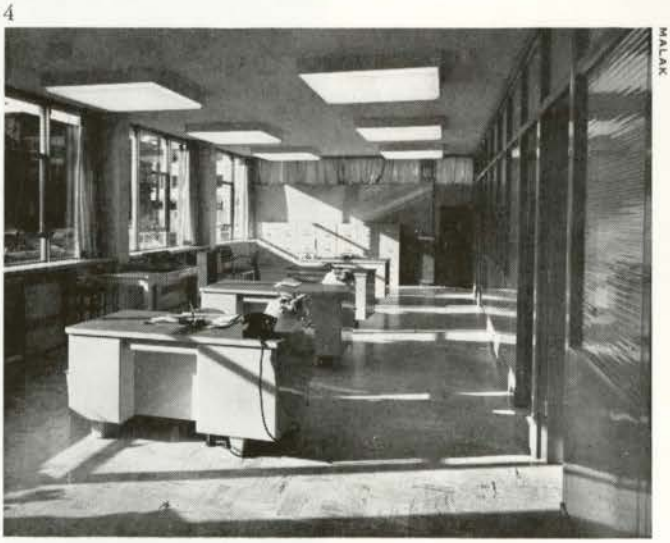


MALAK

We are also happy that representatives of other national organizations in the fields of industry, the allied professions and organized labour are with us to help us celebrate this important milestone in the CCA's history.

The Federal Government is doutless the largest national organization in Canada and we are pleased that it is represented not only by our guest speaker but also by officials in charge of federal departments and agencies.

There was a time when references to the government in Ottawa meant the Federal Government. Those of us who live in far-off parts of the country have been hearing in recent years, however, about another government in Ottawa; that of the city itself. This new awareness of the City of Ottawa among the citizens of Canada is perhaps due primarily to the personality of its present mayor.

The CCA head office has always been located in Ottawa and it it therefore doubly pleasant for us, as one of its residents, to have its chief magistrate with us. It is with great pleasure that I call on Her Worship, Dr Charlotte Whitton, CBE, Mayor of Ottawa.

Dr Charlotte Whitton, CBE, Mayor of Ottawa:
As a former social worker, I was a little hesitant as the Chairman went on, as to what my role was to be in this highly technical gynecological procedure that he was following and then with a breath of relief I assumed it was to be as one of the god-mothers and not the mid-wife – a role in which the mayor is generally involved with most construction work in this city, that is, contracts of our own.

Speaking in the name of the Corporation, I am sure that we are delighted in the city for this one further evidence of the confidence of this great industry in this municipality as the capital of Canada.

From left to right: Miss Evelyn Cuthbert (Membership Secretary), Mr Cecil Burgess, Mr Robert Drummond and Mr A. J. Hazelgrove.

More and more, it is becoming possible to persuade great national bodies that they should be in the centre of the nation's life – the capital. My own church, after thirty years in prayer and fasting, is almost on the point of conviction. But here we welcome particularly the opportunity of association. This is where it should be, and I speak here as a social worker whose brother is an engineer (I think Mr Carswell will bear me out) of no mean standing. And from that and in early associations, as long ago as the 1930's in the setting up of the first employment council, I was associated with that other great element whose representatives I see here today – the labour forces of the country. And I know one of the major problems of the whole Canadian economy is to be solved by government, the construction industry representative of both the builders and employees and your whole welfare service in its broadest sense combining in this land to rid us of the recurring heavy burden and blight of seasonal unemployment, particularly in this field of industry.

Here I think that groups will meet, truly as your President has said, on matters of the greatest concern to attempt to work out with the most statesmanlike approach, what is immediately before us – that is, the question of building the actual physical plant of an enormously expanding nation which requires essential works. These include schools where there are no schools, roads where there are no roads, bridges where there are no bridges, ways of access, the essential facilities of community living even at the same time as our rapidly expanding urban centres are demanding more and more outlay on, let's say, the plus of many of these things. The whole stature, the whole nature of the nation will be largely affected as the construction industry in all its various aspects is able to solve this question of making the maximum use of the technical skills that we have and of the labour force that we have. We've got to get through to make the most use, particularly in the short construction season – the best construction season of the long-lighted days – of what we have in the technical skill of our engineers and the very technical branches of our labour forces so that we can assure the physical plant in which the pulsing life of this nation has to be lived.

So there are few undertakings which the mayor of the capital could welcome with greater sincerity on behalf of all its people than this conclusion of "Construction House". And also, Mr President, we are not unaware in our gratitude of the very considerable amount that you have added to taxation and assessment at this corner! You are in every sense the recipient of the most grateful feelings of the people of the City of Ottawa.

The Rt. Hon. C. D. Howe, P.C., Minister of Trade and Commerce and of Defence:
It has been a great pleasure for me to accept the invitation of my many friends of the Canadian Construction Association to be with them again and to officiate at the christening of their new family dwelling appropriately named "Construction House". I have participated in happy Construction Association functions in the past – but none more enjoyable than the one today.

The opening of this building of Canadian granite and Canadian building materials marks an historic day in the life of the construction industry's national association. The character of the building in its lines and its materials symbolizes the strength and solidarity of the construction industry. It testifies to the stature the Association has attained in its thirty-seven years of progress. Equally it serves as a prophecy of the important role the association will play in the development of the country and our industry in the years to come.

Located in the heart of Canada's capital – "Construction House" will have a wonderful opportunity to serve the industry in its many relations with the Federal Government departments and agencies. It is typical of the CCA that this desire for service should be so well exemplified in the selection of this central site – for the history of the construction industry is one of service to the country. Time and again I have been greatly assisted and encouraged by the support of outstanding members of the Association.

In the work of the Departments of Munitions and Supply and Defence Production and in the activities of such Crown Companies as Wartime Housing, War Assets and Defence Construction and in many related defence works, key men from among your membership have played an invaluable role.

The CCA is unique among associations of its kind in that it represents all branches of the industry: general contractors, road builders, manufacturers, suppliers, and trade contractors – and in having among its membership representatives of the architectural and engineering professions. This wide representation, together with the practical leadership it has always enjoyed from the top men of the industry, undoubtedly account for its many accomplishments.

It has not been an easy task for your association to keep pace with the great strides of your industry's development. It is a far cry from the construction volume of $738,000,000 in 1918, your birth year, to the capital investment of $5,126,000,000 expected in the current year. In 1918, men of the widest vision could hardly have foreseen Shipshaw, Polymer, Kitimat, the St. Lawrence Seaway, Chalk River and other great projects – all being carried out within the compass of a few years. The achievements of Canada's construction industry deserve a high place in the world panorama. The builders of Canada rank with the best.

As the employer of approximately 500,000 on-site workers, and perhaps a greater number off-site, the construction industry is responsible for nearly 20% of all those who are gainfully employed in Canada. Similarly, nearly 20% of the country's total expenditures for goods and services is devoted to construction. The maintenance of a high level of construction is therefore of the greatest importance to the economic well-being of the nation.

Housed in your beautiful new headquarters you will have every inspiration to continue your efforts towards the development of the capacity of your industry to keep pace with the growth of our country – which each year is achieving new peaks of construction volume.

Through the symbolism of unveiling the plaque in the main hall upstairs, it will be my privilege to declare that Canada's "Construction House" is officially open.

Cutting Construction Costs with New Techniques

W. Sefton

BUILDING FORMS A SUBSTANTIAL PART, cost-wise, of our economy, and as in many other fields, we are slipping more and more into a position where we get less buildings for more money. It is rare in any established field where a competitive situation has existed for many years, that costs are reduced at all. Where such costs are reduced after the full interplay of competition has developed, then the result is a reduction in quality.

In our own field it is not only possible to reduce costs without reducing standards but it is possible to reduce costs substantially with an increase in quality of the finished building.

The writer's experience is confined mainly to multi-storey domestic structures and to industrial structures of all types, and this paper will therefore have these types of building in mind. Nevertheless, one is constantly dealing with allied trades and professions and these do of course reflect on structural requirements and costs.

We can cut the cost of multi-storey structures as they are being erected today by as much as 30 to 40 per cent of the cost of the structural portion. We can cut the cost of industrial structures by as much as 25% of the cost of the finished building less mechanical and electrical services, and the purpose of this paper is to show how this can be done.

Cost Fundamentals

Let us examine what the cost of a building is, and let us start by showing what it is not. The cost of a building is not the cost of labour plus materials plus overheads. We have all learned by bitter experience that the cost of erecting a building to a given set of drawings and specifications as measured by lump sum bids can vary quite easily by 25% of the lowest figure. In one job in the Province of Quebec the writer can recall fifteen to twenty bidders producing a spread of bids from $450,000.00 to about $2,000,000.00.

This brings us to the well known truth that the cost of a building is what the contractor will build it for. It is a corollary of this truth that the cost of a building is made up of a number of factors which include the following.

1. The architectural, structural, mechanical and electrical designs.
2. The Specification & Contract Clauses.
3. The degree of job hunger in the contracting world.
4. The availability of equipment in the contractor's yard.
5. The personality and drive of the contractor.
6. The experience of the contractor of the construction system chosen.
7. Above all – the ability of the contractor's estimating staff.
8. Site supervision.

All the above facts and others are relevant, but this paper concerns itself only with some of them.

Suggested Costs

To give detailed costs for any particular type of building is a hazardous operation among professional men and among contractors and owners. Each architect and each engineer has a different conception of costs and each includes different items in his costs. The following figures are given as a suggestion, and are an average obtained from various professional men and from contractors. They are I believe approximately correct.

For a multi-storey apartment building (4 floors – 15 floors), per sq. ft. of floor area,

The cost of the structure varies currently between ..... $2.50-$3.00/sq. ft.
The cost of the electrical work is about ..... $0.50/sq. ft.
The cost of wall cladding can be between $0.65-$1.35/sq. ft.
The cost of elevators can be between ... $1.00-$2.00/sq. ft.
The cost of mechanical work (plumbing, heating & ventilating) ..... $1.50-$2.50/sq. ft.
Apartment buildings are being built for an overall price of ..... $9.00-$10.00/sq. ft.
Office buildings of a multi-storey type (5 floors and over) cost from ..... $12.00-$18.00/sq. ft. depending on the degree of elaboration and the inclusion of air conditioning.
Air conditioning alone can cost $4.00/sq. ft. or nearly twice the cost of the structural portion of the building.

The cost of single storey warehouses and garages etc., completely equipped with the main essential services is about $4.50-$6.50/sq. ft. Process buildings can cost more, dependent on the cost of the process requirements, such as for example acid and other destructive wastes.

These, then are the kind of figures we are talking about.

The cost of the structure is our main concern, but it might be worth while mentioning that the mechanical experts have got to pull their socks up too. There is room for cost cutting in plumbing and heating and ventilation and especially in air conditioning. Structural engineers are concerned about this because otherwise savings they make will be swallowed up by high bids on other parts of the building.

The structural techniques to be discussed will lead to savings of about $1.00/sq. ft. on the structure – sometimes

more and sometimes less. When one recalls that $1.00/sq. ft. irrespective of the percentage, can mean a saving of $50,000 to $100,000.00, it will be realized that these techniques are important. Any owner might be well advised to consider whether this kind of saving brings the price of his building below his NHA loan or below the amount of his mortgage. He might also consider what rental advantages he gets by a lower cost building.

These are the techniques I wish to describe.

Traditional Techniques

a. (1) Structural steel frames (2) Reinforced concrete frames

New Techniques

b. (1) Lift slab (2) Tilt-up walls (3) Shell roof (4) Wall bearing structures (5) Suction lifting (6) Precasting and post-stressing

Structural Steel Frames

1. These consist of columns and beams with or without open web joists.
2. The columns can be standard shapes or built up sections.
3. The beams are usually standard shapes, but on long spans or with especially heavy loading can be built up.
4. The open web joists are sections built up in the shops.

The cost of a steel frame is

(a) The cost of basic materials.
(b) The cost of shop fabrication.
(c) The cost of site fabrication and erection.

One can save money by designing so that the weight of basic steel shapes is a minimum and so that the steel is used to its full potential. One can save money by reducing the cost of shop fabrication to a minimum. One can save money by eliminating site fabrication entirely and by simplifying site erection.

The way to design for minimum weight of steel is quite simple. One chooses an approximate module to suit the owner's requirements. One chooses the form of construction. One then chooses the structural shape and one varies the module to ensure that the structural shape will be fully stressed. All this seems to be very self evident, and because it is hardly ever done – buildings cost the owners too much. This procedure saves no less than 10-20% of the weight of the steel.

The way to save money on shop fabrication is equally simple. It requires a sound basic knowledge of fabricating shop procedure and equipment. It requires a knowledge of the cost of each type of operation. For example is it cheaper to weld or rivet or bolt on a particular spot on a column? Is it cheaper to weld long vertical welds or short horizontal welds? What are the relative costs of reaming a hole or punching it? Is it cheaper to weld two angles together to form a box column than to use a heavier standard H section? Fundamental knowledge like this will save 10% of fabrication costs.

The cost of erection can be 25% of the cost of the erected steel frame. It can also be 35%. It is worth knowing how to avoid the difference and what can be erected simply and what cannot.

Reinforced Concrete Frames

1. These consist of columns, beams and floors.
2. They are usually all poured in place.
3. Nothing is standard about them.
4. All work is done on the site.

The cost of an R C frame is

(a) The cost of basic materials.
(b) The cost of formwork.
(c) The cost of site work.

One can save by using the minimum of materials. One can save by reducing the cost of formwork. One can save by reducing site work to a minimum. Generally speaking for a multi-storey building, the weight of steel reinforcement in an RC scheme is 50-60% of the total weight of structural steel and reinforcing steel in a steel framed building. It is important to know whether reinforcing steel in place is cheaper than structural steel in place. It is important to know whether the cost of the concrete in an RC scheme is dearer than the concrete necessary in a steel scheme and by how much. Is it cheaper to make all columns in concrete of exactly the same external size reducing the steel content, or is it cheaper to have reducing columns and more steel? What is the point of maximum economy? What does formwork cost for a floor, for a beam and for a column? Is it easier for a contractor to place bent up bars and stirrups in a beam, or to have no bent up bars or stirrups? If one is cheaper than the other, will it be reflected in the contractor's price? These are all elementary questions, but they can mean a saving of 15 to 20% in the cost of an ordinary reinforced concrete frame.

Are concrete columns cheaper than steel columns? Usually No. Can steel columns be used with concrete beams and concrete floors? – sometimes. Would this be cheaper? – probably – if erection problems were considered during the design.

What are the new techniques?

Lift Slab

This is a new technique developed in the U.S. Essentially it gives a structure without beams. The columns are usually of steel. The floors are of flat slab concrete with or without drops. The cost including foundations, columns, slabs and roof erected in place can be below $1.50/sq. ft. a saving of over $1.00/sq. ft. over traditional methods.

In this method, shown best in the attached pictures, the floors consist of completely flat plates and are all poured on the ground, one on top of the other. Each floor is machine trowelled and then covered with a liquid wax which is brushed on. A dusting powder is added. The reinforcement, electrical boxes and conduits and heating coils if required, are then laid on the slab just finished, and the concrete is poured. This floor is machine trowelled and the cycle is continued until all the slabs are poured.

Special collars are placed around each column, one for each floor, and these are concreted in, one with each floor.

The sequence is as follows:

1. Foundations poured.
2. Collars placed over columns.
3. Steel columns erected – with bracing where necessary.
4. Basement floors poured.
5. 1st floor – 2nd – roof slabs poured. An interval of four days was obtained between finishing one floor and finishing the next.
6. Jacks erected on top of each column ready to lift.
7. Lifting rods engaged in collars for roof slab.
8. After roof slab is strong enough it is lifted into its position.
9. Remaining floors lifted to their positions.
10. Welding of final connections of collars to columns.

It takes an average of four days to construct each floor. Each section of slab can be lifted in half a day. The potential time saving is considerable and this by itself represents a saving of money to the contractor.

The advantages of this method can be summarized as follows:

1. Elimination of almost all formwork.
2. Time of construction is reduced substantially.
3. Slabs can be poured at ground level – no hoisting of materials.
4. Slabs can be constructed in winter without expensive protection at each level – all protection is at ground level.
5. The underneath surface of each slab is as smooth as its top surface – no plastering is therefore required.
6. The absence of beams gives the architect greater internal freedom.
7. The saving of 9" in floor depth can give the owner an extra floor in the same overall height of a 12-floor building.

The pictures accompanying this description are of the highest lift slab ever built anywhere in the world. Seven slabs as we have in Rideau Towers is the maximum so far attempted, and I think I ought to state that the architect Mr Peter Caspari, MRAIC deserves the thanks and appreciation of all architects for his courage in initiating and carrying through such an event and so bringing the record to Canada.

Tilt-Up Walls

This is a system of reinforced concrete wall construction where the walls are poured flat on the ground and are then tilted into position. With this system one can pour walls on top of each other with or without door frames and window frames already incorporated. The formwork on both sides of the wall is eliminated completely and similar advantages can be obtained as regards finish to these with Lift Slab.

The sequence is explained best by the pictures, and is quite simple to understand. The cost of these walls in place is probably at least 40¢/sq. ft. less than poured in place reinforced concrete walls, and where RC walls are required a great saving is the result.

Tilt Up and Lift Slab

The writer is convinced that by a combination of the Tilt Up technique and the Lift Slab technique, multi-storey buildings will be made even cheaper than by Lift Slab alone. This is particularly true of a large building say with 12 to 16 storeys. One can then combine the advantage of load bearing RC walls with elimination of formwork. This would mean a considerable saving of money where an RC loadbearing frame is suitable.

Suction Lifting

A technique used in the U.S. and in Europe and here, is the lifting of large RC walls or other heavy prefabricated sections by suction. Large suckers attach themselves to the concrete units and lift these to any part of a building. This is a particularly useful device where concrete units are poured on each other forming a pile of units. The suction lifter eliminates the necessity of leaving holes or rings in the concrete, which are often an embarrassment and give rise to objectionable local stresses.

Load Bearing RC Walls

An old technique, which is being used in Toronto at the present time, has proved remarkably cheap despite the popular misconception that it cannot be cheap. This is the load bearing RC wall and slab design of the City Park Project now being erected alongside the Maple Leaf Gardens on Church, Wood and Alexander Streets and which is also being used on a similar job on Avenue Road.

At City Park there are three buildings each of 14 storeys and basement. The only columns are on the main floors at the entrance lobbies. The structures consist of 7½" solid reinforced concrete floors on reinforced concrete cross walls which go down to the basement level, the top of the foundation raft. Walls vary in thickness from 6" to 8", with one wall becoming 12" below second floor and end walls 10" below second floor. Despite the large amount of forming which is necessary all the concrete work including foundations, walls and floors has cost only $2.00/sq. ft. of floor area. This may be partly due to a low bid but the other low bids were not very different.

The point really is that in this form of construction for high buildings, the walls perform three tasks simultaneously:

(1) They carry the load down to the foundations.
(2) They eliminate the necessity for expensive and extensive wind bracing.
(3) They act as partitions between apartments.

Consequently the saving is apparent in the total cost of the building work in addition to the saving in the structural cost. The architect on this project is Peter Caspari.

An almost exactly similar building but with 12 storeys, a large penthouse and shorter in length is being erected on Avenue Road just north of St. Clair later this year. The architect for this building is Mr E. I. Richmond. In this case a light curtain wall is used front and back and all the load bearing walls are only 6" thick.

Shell Roofs

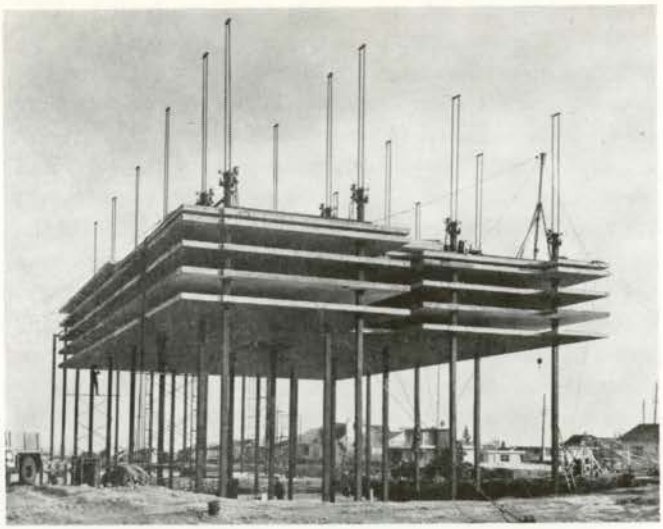
This is a technique which is thirty years old but which is comparatively unknown here. Most architects and owners put it in the category of the "desirable but unbelievable".

An owner does not believe for example that he can have a concrete roof 2" to 3" thick which sits on 4 columns spaced say 45 ft. and 180 ft. apart, with an absence of cross beams. They refuse to believe that it is possible to have a 4" concrete roof spanning 240 ft. as an arch between ribs.

Shells are essentially thin reinforced concrete arched shapes adapted in a number of ways to span very large distances in what can be very pleasing forms.

The shells act in almost exactly the same way as the ordinary hen's egg. The egg shell is very thin, yet when one exerts considerable pressure on the two ends together, without touching the sides, it is impossible to break it with the pressure of the human hand.

Concrete acts in a very similar way but on a much larger scale. Pressure on an arched shell from whatever direction gives rise only to stresses in the plane of the material – membrane stresses. No cross bending moment is set up and no cross shearing forces.



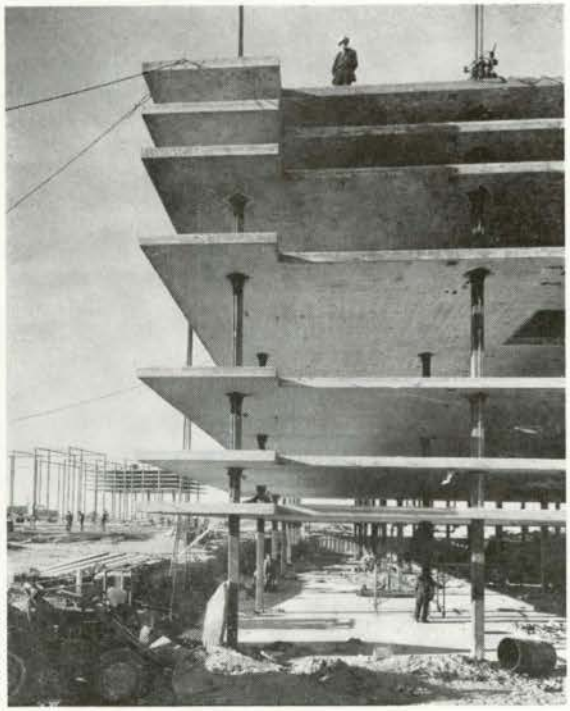
E. W. CADMAN

Roof, 6th, 5th, 4th, 3rd floors lifted. 3rd floor location is final.

Collars on columns

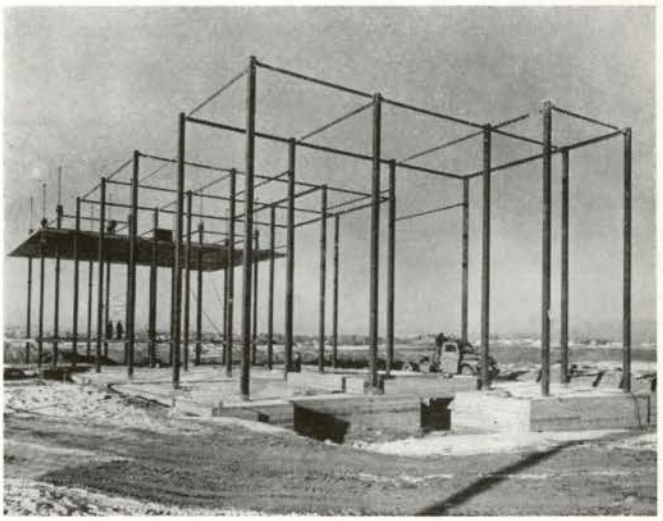
E. W. CADMAN

End view of slabs



E. W. CADMAN

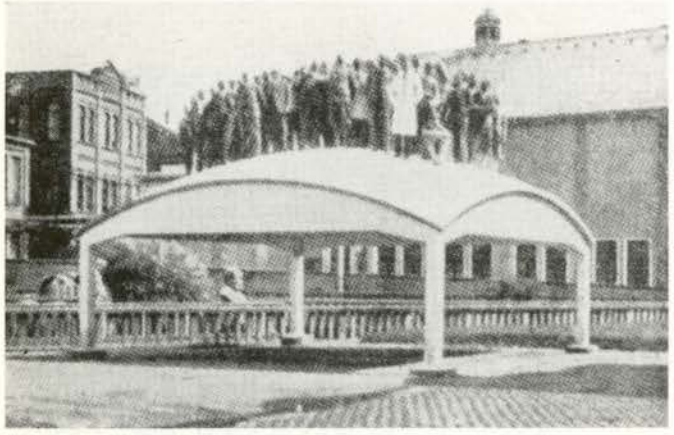
Roof being lifted



E. W. CADMAN

The definition of a shell could be, "a structure in which all external loads give rise only to stresses parallel to the surface of the structure". Starting from this definition, shell structures have been built in concrete in many variations: – shells of elliptical cylindrical or polygonal cross section, short shells and long shells, corrugated shells, plain or ribbed domes, barrels of northlight construction and half barrels (cantilevered from the springing).

Aesthetically, the writer considers that they are superior to any other form of roof in most types of structure. More practically, the advantages proved for them are lightness, cleanness, good acoustics and resistance to fire. Modern techniques are also giving them the advantage of smaller cost than for any other roofs of comparable spans.



Domed Shell at Biebrich, Germany

The following examples of shells give the best description of their use and characteristics. *(see illustrations)*

Domed Shell at Biebrich, Germany

This shell is 24 ft. x 24 ft. $^{19}/_{32}$" thick at the centres and 1" thick at the edges.

There must be at least 50 people standing on it in the picture.

Drill Hall at Deal, England

The two pictures show an almost perfect use of shells to cover an area 240 ft. x 90 ft. with 3" thickness of concrete only.

No interior columns.

Note cantilever projection outside building giving a beautiful shadow effect. This cantilever projection could be increased considerably.

Sefton Shell

This is a shell devised by the writer in which all the units are precast and post-tensioned and then lifted into place.

This eliminates almost completely the formwork required and the propping, which can be expensive in some cases for poured in place shells.

Precasting and Prestressing

So much has been said about prestressing that many engineers and owners complain of suffering from prestressed indigestion. Nevertheless prestressing is a most valuable tool in the construction tool box. It should not be interpreted as being the only tool in the box, nor as the whole tool box.

The small prestressing job carried out at Quebec City on behalf of the C. D. Howe Co., in Quebec City demonstrates the principle of poststressing and the way it is carried out by one of the many systems now available. In this case the contractor selected the Magnel Blaton system, even though the Lee McCall system had been shown on the drawings. In this particular job a concrete structure built in 1910 alongside a grain elevator in Quebec City had to be demolished, as it was supported effectively on three rows of columns and the centre row was in the way of switching rail tracks which had to be installed. It would have cost at least $25,000.00 to pull down the existing structure and provide the cheapest possible structure on two rows of columns. By using poststressing almost as a "gimmick" the centre row of columns was eliminated and the beams were made to span twice their original span. The total cost was $5,000.00. Poststressing had saved the National Harbours Board $20,000.00.

Prestressed concrete is particularly valuable on long spans and heavy loads and it has competed successfully in Canada on some very large jobs with steel, and unsuccessfully on other jobs.

In many structures concrete is still too expensive and will in fact never compete with steel, but in an increasing number of structures an intelligent use of precast columns and precast beams combined with in situ floors has saved owners much money. Examples of this are becoming increasingly common overseas and many warehouses in this country are using precast units combined with steel.

Lessons

There are a number of lessons to be learned.

1. No engineer and no owner can afford to close his mind to any new or old form of construction.
2. No one can decide at a glance which is the cheapest form of construction for his building.
3. No building can be constructed with the maximum of economy without the maximum liaison between all parties from the first inception of any project.
4. The new techniques of Lift Slab, Tilt-Up, Shells, Precasting and Prestressing must have a place in our thinking alongside more traditional techniques.
5. Each job must be treated on its merits and the system or systems or combination of systems most suitable must be selected.
6. The architect must in his preliminary sketching know what module of supporting members are the most desirable structurally and financially for each system selected and must bear this in mind.
7. The engineer must prepare a preliminary scheme for each system of construction considered potentially able to save the owner the most money. These schemes must be integrated with architectural and mechanical requirements. These schemes should contain sufficient information for estimates to be prepared by selected contractors.
8. The estimates should be examined and one system most obviously the cheapest having regard to time of construction should be selected and agreed by all parties concerned.
9. The drawings, architectural, mechanical and structural should then be prepared.

It will be noticed that there is no substitute for taking pains with a job. Time spent in the early stages results in a cheaper and better job. Sooner or later owners will have to be educated in the fundamental fact of building that if the architect and engineer team can save him $50,000.00 by using the technique of taking the trouble, it is worth his while to pay say an extra $25,000.00 in fees to that team over and above what he pays a less efficient team. He will still show a saving of $25,000.00. Unfortunately, many owners, shrewd and calculating in their own business,

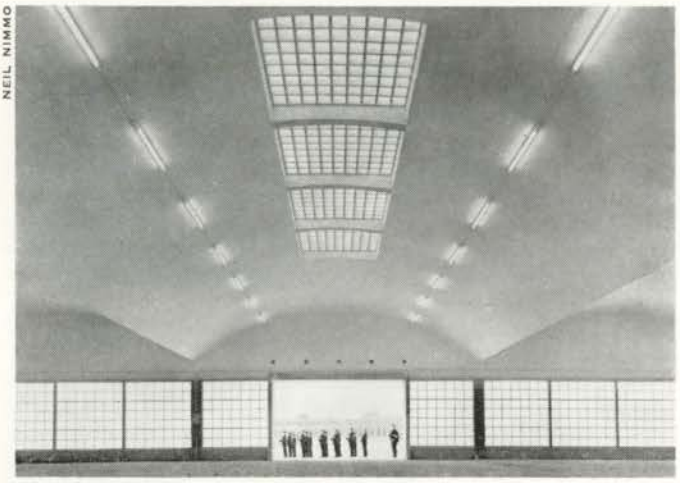
hypnotize themselves into a belief that they can save money by paying bargain basement fees instead of a good fee.

A design team cannot give as good service on a poor fee as it can on a real fee. It cannot give the best possible service if it spends most of its time seeing how little or how much it can afford to do for a miserable fee.

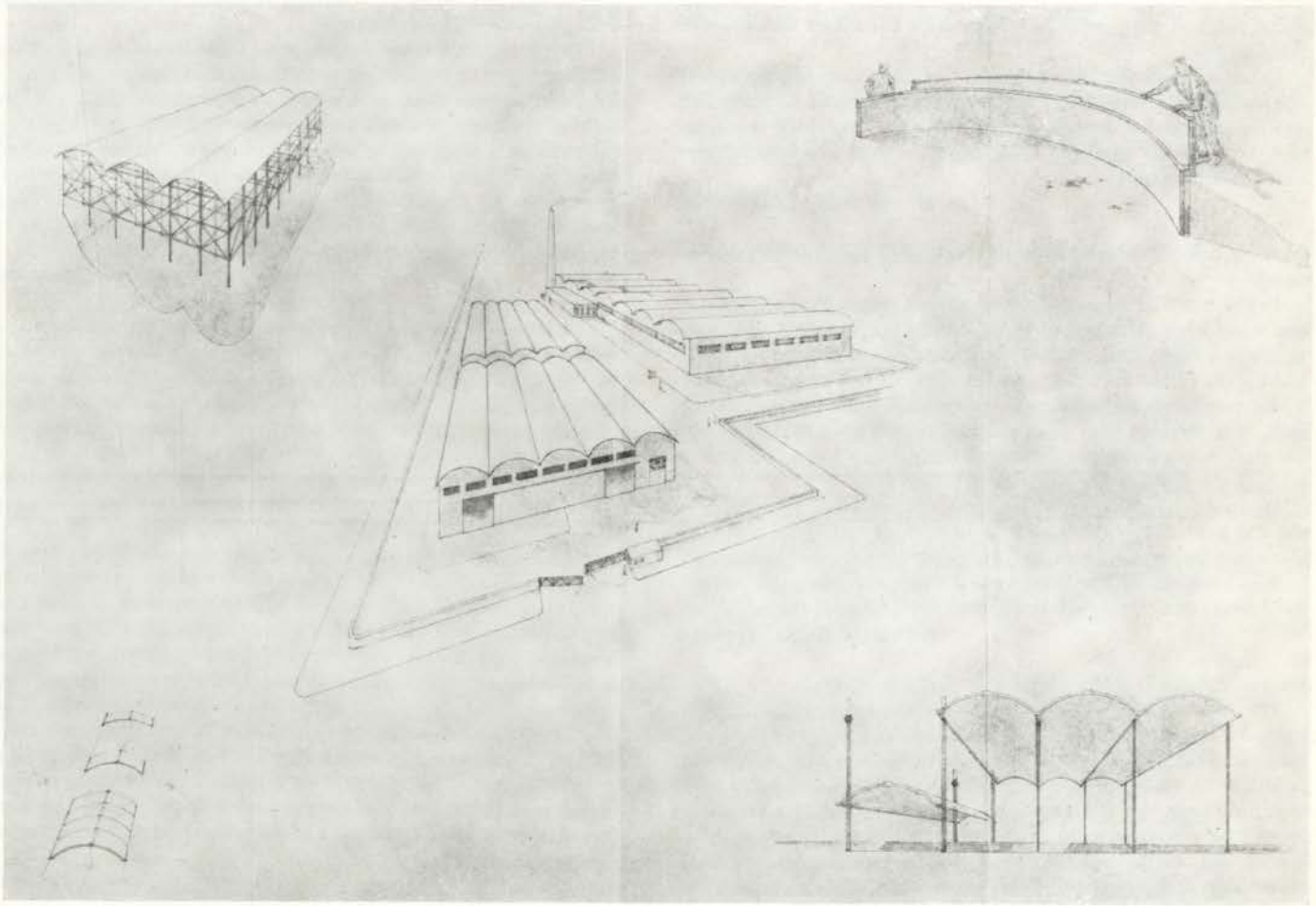
1. Summing up one might say that very early intelligent and integrated planning between the architect and engineer can save an owner up to at least 25¢/sq. ft. irrespective of the construction system chosen.
2. If every architect and engineer kept a good and accurate record of itemized job costs and was paid sufficiently to take the trouble, he could save the owner the cost of his fees several times over.
3. The new techniques are here to stay and can save up to 40% of the cost of the structural work.
4. The old techniques are also here to stay and intelligent use of them can save considerable sums of money.
5. It is up to the professional men involved in the building industry to cut construction costs and to see that they are rewarded suitably.

The above was a paper presented at a meeting of the Toronto Chapter of the Ontario Association of Architects.

NEIL NIMMO



Drill Hall at Deal, England



The Sefton Shell

VIEWPOINT

While design is an important field of study for the architect, it should not be given the importance it has received in the schools. A high quality of performance by the professional man is not based on his ability to design, which can be handled by the designers in his office, but on his ability to make correct judgments in the interest of his client.

The ideal architect has the abilities of a designer, a constructor and a businessman. One man very seldom excels in all three.

The world's most outstanding architects are excellent designers. As good designing means creating in suitable material and sound construction, these architects at least have a good feeling for both. But they are not necessarily good businessmen! Yet they are the ones who contribute to the development of architecture, to the great cultural process and thus to man's happiness.

The businessman-architect, more interested in business success, may put aside his architectural conscience to satisfy a client. If his comprehension of architecture is poor, his designer should attend the meetings to convince the client and protect the design.

Practice trains the businessman. The university neither could nor should give him more than a theoretical basis. Universities should emphasize design; realistic for the student's training, visionary for his growth. Their ultimate goal lies beyond the individual's benefit.

Jan H. Albarda, Thistletown

I find it difficult to concur with the text of this month's Viewpoint.

In the work of the present and recent greats in architecture, the same high standard of design and character is to be consistently found in all their work, regardless of staff.

In spite of the fact that the key men in the organization of a large architectural office may be imbued with the greatest of skill, it is obvious that the principal of the firm must provide the design inspiration and become the driving force behind his staff, if the work of the office is to progress.

It would be difficult to imagine an architect of this persuasion curtailing his interest in design, or sitting in a swivel chair pondering mainly on his ability to make correct judgments in the interests of his client, even though these said correct judgments must well mainly concern the design of the building.

Arthur H. Eadie, Toronto

By my standards this statement is not adequate.

The high quality of performance by the professional man is indeed based on his ability to make correct judgments in the interest of his client; and design is certainly *the most important field* for the architect in which he should make not only a correct judgment but the best one possible. To me the architect should be an integration of designer, engineer, draughtsman, accountant, public relation executive, personal manager, real estate agent, insurance expert, statistician, legislator, etc.

The design of a building is not only a nice water colored perspective of a building, but a complex machinery involving client contacts, budgeting, research, analysis, the ability to make decisions, a knowledge of structure, etc. Very few designers can be left with all these problems and succeed unless he is an architect and then he should be made a partner.

Design should still keep the importance it has received in the schools so far, but there should definitely be more emphasis on the practical aspects of an architect's position in life. In most schools this is totally lacking.

Claude Longpré, Montreal

As the basis of architectural training is in architectural design our schools rightfully devote a high proportion of their teaching curricula to this subject. This, however, can get out of balance to the other subjects. During a period of almost certain summer employment in an architect's office or on construction, the present day student can supplement other subjects by practical experience, but no office is willing to teach design and pay the draughtsman at the same time.

Design training must be progressive, however, and there is a definite gap to bridge between theoretical design and practical building construction. I would stress that one must not lose sight of this, and in teaching "good construction" one is giving the student a language in which to properly express himself in his design. There is a close relationship between the two which appears to be overlooked. I would not recommend teaching less design, but would strive for better co-ordination between practical building construction and design.

Francis J. Nobbs, Montreal

An architect who cannot appreciate design is like a fish out of water. His ability to make correct judgments in the interest of his clients, includes his knowledge of design and how to interpret it in the best solution to the clients problem. It is not necessary that the architect be a top designer himself, as he can employ competent designers in his office; but he must be able to control, appreciate, and criticize design. This takes much study and particularly when the economics of a building play such an important part in the relationship between client and architect. The elimination of frills to cut costs, has forced today's architect into a higher knowledge of design in order to present palatable buildings with a bare minimum of structure and materials. Working with the bare essentials that comprise good design, with no possibility of "dressing it up" due to cost restrictions, requires that the architect have design training and experience that can stand up to all kinds of arguments. The schools stress design, and its importance is never fully appreciated till a graduate has to redesign his first ideal building, due to cost factors. The real test is to retain the original design theme and bring the cost down; and this points up the fact that design is an integral part of an architects performance as a professional man.

Robert A. Servos, Toronto

The Executive Committee has set up a Trust Fund to be known as the RAIC Education Fund and its representations to the Government of Canada for recognition as a Charitable Organization under the Income Tax Act have been successful. Already one donation has been made by will and it is expected that more will follow from within and without the profession either by request or by immediate gift.

The Massey Medals for Architecture, 1955 has been successfully concluded with the Official Opening at the National Gallery of Canada, Ottawa on Friday, 18 November, by His Excellency the Governor-General. The 1955 Exhibition saw the number of mounts increased over 1952 from 162 to 248, the number of entries increased from 90 to 119 but the number of architects who submitted these entries and mounts increased only from 41 to 44. This last figure is a disappointment in this otherwise successful exhibition, an opportunity presented by the Massey Foundation for public relations by Canadian architects. The Executive Committee urges that many more architects, who are known to have completed successful projects, enter these in the next competition.

The Royal Institute gratefully acknowledges a gift of books from Mrs D. M. Gordon of Montreal. These were made available through the co-operation of Mr J. Roxburgh Smith, a Past President of the RAIC, and will form the nucleus of a future library for the Royal Institute.

Further to a bill by the Government of Canada which led to an amendment to the Historic Sites and Monuments Act, the Executive Committee has recommended that the Provincial Associations give consideration to the appointments of architects from the Provincial Associations as representatives to the Board administering this Act and already one or two architects have been appointed. The main amendment in this Act is to include in the definition of historic places those buildings or structures of national interest by reason of age or architectural design.

The Executive Committee has confirmed a donation of $500.00 each to four Canadian Universities for use as special purpose funds in their Schools of Architecture, within certain terms which have been agreed to by the Presidents of those Universities.

The Royal Institute was joint sponsor, along with other professional organizations, of the Joint Conference of the American Society of Planning Officials and the Community Planning Association of Canada, which took place on September 25 – 29, 1955 in Montreal.

It is expected that the new By-Laws will be available to the members early in 1956 as soon as the translation into French is available and printed.

Many commendations from the members have been received on account of the RAIC-sponsored advertising programme of the Minneapolis-Honeywell Regulator Co. Ltd. "The Value of the Architect". The RAIC in turn has commended by motion this company for its dignified, attractive and worthwhile advertising programme.

The Royal Institute, along with other representatives of industry and Government, has taken part in meetings in an effort to alleviate the problems of seasonal unemployment in the construction industry.

The Honorary Fellowship which had been awarded at the 1955 Annual Assembly to one of Canada's outstanding architects, Percy E. Nobbs, FRAIC was presented at a dinner of the Executive Committee at the University Club of Montreal on 11 October, 1955. Mr Nobbs, a Past President of the Royal Institute from 1929 to 1932, spoke briefly in reply, telling many of the highlights of the profession of architecture in Canada over the years.

The Executive Committee recently approved three architectural competitions, as meeting the requirements of the RAIC's Code for the Conduct of Architectural Competitions. These were a city hall for the City of Ottawa, an extension to the main library for the City of Ottawa, and the Ferro Porcelain Enamel Competition.

The Chairmen of the 1956 Annual Assembly Committees have been appointed as follows: – Main Convention Committee, K. C. Stanley; Public Relations and Press Committee, H. A. Henderson; Accommodation and Catering Committee, Jules P. Paivio; Special Catering Committee, George W. Lord; Registration and Sale of Tickets, H. L. Bouey; Program Planning Committee, G. W. Lord; Seminars Committee, John C. Clayton; Ladies Activities Committee, Mrs Neil McKernan; Sports Committee, W. G. Milne; Tours Committee, J. H. Cook; Exhibitions Committee, Miss Mary Imrie. – Editorial Board, Earle C. Morgan; Architectural Education Committee, H. H. G. Moody; College of Fellows, W. Bruce Riddell; Council Meetings and General Assembly, C. J. G. Carroll.

Details for the 1956 Annual Assembly, to be held at Banff, Alberta on 6 – 10 June, 1956, are proceeding satisfactorily. Subjects and speakers for the seminars and functions are being arranged and it is expected that an outstanding program of events will be offered to the members. Letters from members and reservations already made indicate a great interest in this Assembly and a large attendance.

CALENDAR OF EVENTS

Annual Meetings of the Provincial Associations:

Alberta, Banff, January 20th to 21st, 1956.

Quebec, Chateau Frontenac, Quebec City, January 26th to 28th, 1956.

Ontario, Royal York Hotel, Toronto, February 17th to 18th, 1956.

Annual Meeting of the Canadian Construction Association, Winnipeg, Man., January 15th to 18th, 1956.

Annual Assembly of the RAIC, Banff Springs Hotel, Banff, Alta., June 6th to 10th, 1956.

MANITOBA

"Now the trouble with architects is that they haven't really adjusted themselves to a collective society; they still insist on living in their unspoiled primaeval state." This was a remark made to me by a friend, a consulting engineer.

I protested that nothing was further from the truth, that it was indeed the architect more than any other professional who was attuned to the times, always concerned with the highest aspirations of man within a given era. In fact he seeks to interpret the very spirit of an age into society's most fundamental needs: that of housing man's various activities.

"High sounding phrases my friend. But how many members of your profession can wear this mantle you weave with deserved dignity? Besides you are introducing another question entirely. Aside from dismissing your argument by saying that those few among you who manage to see the problem of building as you claim they do, do so only because they are behaving like sensitive engineers, I would rather not worrry the subject any longer. My original statement referred rather to your behavior among yourselves.

"It seems to me that the responsibility of a profession lies, among other things, in furthering the sum total knowledge of the group by free interchange of ideas and experience among its members. Only in this way will each member be better prepared to carry out his commissioned work. Your client, you will agree, deserves the best – this means the best of your collective experience, not merely the best of one frail architectural mind.

"Now how does your average colleague behave. Once he is out of school, that's the last those ivy covered walls see of the bloke. He is off to the wars, to live alone, hunt alone, and gnaw away at his spoils alone. He will gaze with distrust out of the

corner of his eye at any approaching figure, convinced that the other has come to steal away his fire or poach on his preserves."

I again protested, pointing out that we had provincial and national associations publishing a monthly journal. Surely all this indicated a dedication to the task of improving the whole profession.

"Dedicated to improving what? Your journal, I admit, has a superficial charm and I won't challenge that item. But I've been to a few of your meetings. To the exclusion of almost every other topic, the subject under discussion is usually how to strengthen whatever laws exist pertaining to your profession; how to add a few more stones to that little wall of protectionism that surrounds you, so that the goods you peddle are a little more salable in a cold, hard world that demands a dollar's service for a dollar's fee. Improve yourselves and you won't have to worry about the interlopers, the drafting services, the package-dealers, who you feel are stealing your birthright. Make yourselves worthy of the term "master-builders", co-ordinators of the building arts, and you will have discovered the proverbial mousetrap."

I pointed out to my engineer friend that he seemed to be letting the subject get away from him; that surely our meetings weren't so limited in their subject matter.

"Oh no! They don't discuss laws all the time. Another favorite pastime at your friendly gatherings is a short period of time given over to having certain members get up and make thinly veiled accusations concerning the questionable professional behavior of his colleague sitting beside him, (no names mentioned of course)."

I dismissed this last as rank exaggeration, if not a complete fabrication. I maintained that in the face of all that he said, I felt that architects were a relatively amicable group.

"Well let me ask you this. How often have you asked any of your colleagues to show you through such of their buildings as you considered a good piece of work. Or when was the last time you picked up your phone and called up another architect to ask his advice on a subject about which you needed some information and in which you knew he had a wealth of experience."

I asked my friend if he was in the habit of consulting freely and informally with other engineers in the city.

"Yes I am. And that is why engineering will be a flowering profession long after you barbarians have disappeared from the face of the earth."

I. Coop, Winnipeg

ONTARIO

Perhaps the strongest indictment that could be made against our political, economic and social organization would be directed towards the chaotic conditions in our large cities. We suffer from the faults of our virtues and the freedom of the individual is trumpeted forth from every new shop front trying to outshout its neighbours, every luxury apartment glaring down into the back gardens of quiet residential streets and every cliff-faced office slab which throws whole neighbourhoods into gloomy shade. We are struggling on a dilemma, of which one horn is the concentration made possible by the elevator and the other horn is the dispersion made possible by the motor car.

It does not require a very acute intelligence to see that most of the obvious disadvantages and inconveniences of city life could be removed by planning and controls. But the political party which has most strongly advocated planning and controls has not been conspicuously successful at the polls. Ontario distrusts Socialism. It does not matter much whether this is a deep instinctive preference for freedom rather than tidiness, or simply the liking for things as they are which might be expected from the richest province of a wealthy dominion.

But the laziest Bohemian must occasionally sweep up the cigarette butts and throw out the empty bottles. There is a growing acceptance of the sort of controls that result from master plans and zoning by-laws. Even within the most individualistic of professions, Architecture, there are indications that the street rather than the building might be taken as the design unit. Both the Hamilton and the Toronto Chapters of the OAA are trying to work out systems to obtain some measure of harmony among buildings on the main thoroughfares.

In Toronto for many years all designs for buildings fronting on University Avenue have been subject to the approval of a committee which must include two members of the Toronto Chapter. The results have been negatively successful in that several horrors have been at least toned down. The positive result has been the working out of a happy basis of co-operation between the architects as a corporate group and the civic officials who have the power to refuse building permits. The Chapter is now working on a proposal which would increase the range of the existing committee geographically, and by co-ordinating its work with the machinery set up by the new zoning by-law and city planning department, increase its effectiveness in working towards street design.

At the outset the obstacles appear to be enormous. The selfish property owner, the genius who refuses to be trammelled by surrounding mediocrity, the dead weight of human inertia, all must be bullied or cajoled by volunteers who are kept busy enough by their own affairs. This is not the first attempt to solve a problem which has become increasingly pressing ever since the decay of tradition at the close of the eighteenth century. Only time will tell whether this latest effort is a milestone on the road of progress or a tombstone in the cemetery of blasted hopes.

Loren Oxley, Toronto

COLLEGE OF FELLOWS' SCHOLARSHIP

Applications for the 1956 RAIC College of Fellows' Scholarship will be received by the Secretary of the RAIC until *15 January, 1956.*

This Scholarship is awarded every second year and has a value of $2,000.00. Its purpose is the advancement of architectural knowledge through travel, study or research. It is open to Canadian citizens who have completed their entire architectural course and graduated from a recognized Canadian School of Architecture. Application for this Scholarship must be made within five years of the date of graduation.

Members of the Royal Institute are invited to bring this notice to the attention of worthy persons who are known to them.

Full details of this Scholarship and application forms may be obtained from the Executive Offices of the RAIC, 88 Metcalfe Street, Ottawa, Ontario.

NOTICE RE LEGAL DOCUMENTS

The RAIC Council announces a reduction in the prices of these documents and a change in the method of selling them, as a service to its members and in order to bring the prices and the method of selling into conformity with those of the Canadian Construction Association.

These reductions in price are made possible mainly through larger orders for printing and can be continued only through increased sales to the members.

The details of these reduced prices are as follows:

1. RAIC Documents Nos. 12, 12F, 13 and 13F, the Stipulated Sum and Cost Plus Documents in English and French, which are produced jointly with the CCA, will be sold by the RAIC to the members direct and to the Provincial Associations at 15¢ each and to all others at 25¢ each, and the Provincial Associations are asked in reselling to charge the members 20¢ each and all others 25¢ each.
2. RAIC Documents 6AQ and 6AQF, the Client-Architect Agreement Forms in English and French, will be sold by the RAIC to the members direct and to the Provincial Associations at 5¢ each and to all others at 10¢ each, and the Provincial Associations are asked in reselling to charge the members 2 for 15¢ and all others 10¢ each.
3. RAIC Documents Nos. 10 and 10F, the Construction Tender Form in English and French, which are produced jointly with the CCA, will be sold to the members direct

and to the Provincial Associations at 5¢ each and to all others at 10¢ each, and the Provincial Associations are asked in reselling to charge the members 2 for 15¢ and all others 10¢ each.

4. These reduced prices will become effective *1 January, 1956.*
5. The members of the RAIC are asked to buy these documents only from the RAIC Executive Offices or from the Provincial Associations. The Provincial Associations are asked to buy these documents only from the RAIC Executive Offices.
6. The members of the RAIC and the Provincial Associations are reminded of the copyright restriction on these documents. This means that these documents must not be copied in whole or in part without written permission from the RAIC, or from both the RAIC and the CCA in the case of documents which are jointly produced by those Associations.

TRAVELLING EXHIBITIONS

A travelling exhibition of the work of the award and mention winners of the Massey Medals for Architecture 1955 is being organized by the National Gallery of Canada, and is available to Provincial Associations, art centres and similar groups across Canada.

The Council of the RAIC strongly encourages this activity as part of a program of public relations for the work of architects, as outlined in the Scheme for the Massey Medals for Architecture.

Any groups which would like to make use of this travelling exhibition are asked to make their arrangements direct with The Director, National Gallery of Canada, Ottawa, Ontario.

Opening on Thursday, December 15th, at the OAA, 50 Park Road, will be a photographic exhibition describing "The Streets We Live In" and what can be done to improve the present poorly designed equipment, lighting and signs which clutter them up so badly. The display is an attempt to bring to the attention of the average citizen as well as municipalities the need for a new approach to the design and use of street furniture such as waste bins, signs, lamp posts, hydrants, etc. This will circulate throughout Canada later.

Groups in some cities in Canada have tried to arouse public opinion through local exhibitions, lectures and discussion meetings. The National Industrial Design Council in Ottawa was asked to help and at a meeting early this year it was decided to make a detailed survey of existing street equipment in both Canada and abroad. This research has been completed and incorporated into this photographic exhibition.

The whole comprises a wealth of photographic coverage from such countries as England, Switzerland, Italy, Germany, the Netherlands, the United States of America and Denmark. Also good and bad Canadian examples are shown; some of both are taken from typical Ottawa street scenes.

The best examples from abroad prove how far behind we are in Canada in respect to park benches, telephone kiosks, waste bins, newspaper stands and even street lighting.

This display is meant to be talked about and argued about. It will provoke controversy and only out of controversy can come the improvements we desire. It is high time that we, as Canadians, began a campaign to remove the present litter of unplanned signs and clutter of cumbersome equipment which defaces even the best of our streets.

The next showing of the exhibition will be at the Vancouver Art Gallery in late January.

MASSEY MEDALS

As it was impossible to show the Massey Medals adequately in one issue, it was decided to show only one picture of each as a record. It is the Board's intention to illustrate these buildings in full at as early a date as possible.

⊖ CANADA

Amid the encircling gloom

CONTRIBUTOR TO THIS ISSUE

W. Sefton is a Consulting Engineer practising in Toronto, and formerly was Chief Engineer of the Zinn Company of Toronto. Earlier, he was Senior Engineer supervising design for the C. D. Howe Co. Ltd. of Montreal, for which company his largest project was the Seven Islands Docks and Terminal Buildings for the Labrador-Quebec Iron Ore Project. Mr Sefton has been responsible for the structural design of many large buildings. including the highest Lift Slab buildings in the world, erected in Calgary. While in the U.K. he was Resident Engineer for the $50,000,000 Uranium Plant in Cheshire. During the war, Mr Sefton served overseas with the Royal Engineers.

ARCHITECTS AND PLANNERS WANTED

An unusual opportunity is offered to those with the right qualifications to gain experience and advancement in the rapidly expanding housing and planning fields of architecture in Canada. Central Mortgage and Housing Corporation requires architects and planners in its reorganized architectural department at Head Office in Ottawa to meet the requirements of the recently created Development Division of the Corporation, and its new program for improving the quality of housing and planning in Canada. There will be ample opportunity for research, design and execution of actual housing projects directly or in collaboration with consultants across the country.

Applicants should have a university degree or equivalent in architecture, a sound knowledge of contemporary design, an interest in housing, and some experience in an architectural office. Reply to Mr L. E. Smith, Central Mortgage and Housing Corporation, Ottawa, stating age, marital status, education, architectural experience and salary expected. Replies will be treated in confidence.

JOURNAL, R A I C INDEX

VOLUME 32, 1955

LITERARY CONTRIBUTIONS

ART

Art Centre for Winnipeg?, An, *C. R. Hiscocks* June p. 222
Art in the Maritimes, *Alex S. Mowat* Apr. p. 134

BOOK REVIEWS

Architect at Mid-Century, The, Volume I, *H. H. Madill, John A. Russell* May p. 188
Background to Hospital Planning, *Harvey Agnew* Mar. p. 98
Boullée's Treatise on Architecture, *André Blouin* Sept. p. 358
Building Construction Illustrated, *W. G. Raymore* Aug. p. 308
Castles of Great Britain, The, *Eric Arthur* Mar. p. 99
Climate and Architecture, *R. F. Legget* June p. 233
Elements of Interior Design and Decoration, *Anthony Adamson* Oct. p. 402
Homes of the Brave, *Howard Chapman* Aug. p. 309
Housing in Denmark since 1930, *Michael Bach* Aug. p. 309
Idea – International Design Annual, Volume II, *W. E. Fleury* Nov. p. 448
Le Corbusier 1946 – 1952, *Irving Grossman* Mar. p. 98
Lost Art, The, *Eric Arthur* June p. 236
Modern Shop, The, *Fred Lasserre* Nov. p. 449
Planning Residential Subdivisions, *Edouard Fiset* Jan. p. 28
Power in Buildings, *John A. Hall* Mar. p. 99

COMMUNITY PLANNING

Chandigarh, *Jaqueline Tyrwhitt* Jan. p. 11
Contribution de l'Architecte à l'Amenagement Urbain, *Edouard Fiset* Apr. p. 142
Federal District Commission, The, *Howard Kennedy* Nov. p. 429
Is the National Capital Plan Succeeding?, *Charles J. Woodsworth* Nov. p. 431
Planning for the Future, *John A. Russell* June p. 193
Progress of the National Capital Plan, The, *Walter Bowker* Nov. p. 438
Some Aspects of Community Planning in the Maritimes, *Lilias M. Toward* Apr. p. 114
What makes a City 'Great'?, *Denis Winston* May p. 181

CONSTRUCTION AND MECHANICAL SERVICES

Acoustics, Architecture and Music, *Robert H. Tanner* Oct. p. 398
Building Research Centre, Ottawa, *R. F. Legget and H. B. Dickens* Jan. p. 3
Design and Specification of Watertight Concrete, *Lane Knight* May p. 150
Design of Unit Masonry for Weather Resistance, *T. Ritchie and W. G. Plewes* Sept. p. 342
Government Administration Building, Regina, *E. J. McCudden* May p. 168
Modern Hospitals for Rural People July p. 259
Montreal General Hospital
- Architectural Point of View, The, *McDougall, Smith & Fleming* Sept. p. 312
- Historical Note, An Sept. p. 311
- Mechanical and Electrical Equipment, *McDougall & Friedman* Sept. p. 324
- Medical Point of View, The, *William Storrar* Sept. p. 322

Saskatchewan Legislative Building and its Predecessors, The, *Lewis H. Thomas* July p. 248
Stability and Durability of Masonry Materials, *Neil B. Hutcheon* Sept. p. 338
Weather as a Factor in Masonry Problems, *D. B. Dorey* Oct. p. 394
Windows for Office Buildings, *Alan Weatherstone* May p. 147

DESIGN AND AESTHETICS

Architect and the Community, The, *Richard J. Neutra* Feb. p. 48
Architecture and History, *Cecil S. Burgess* Oct. p. 365
Architecture in Ottawa: A Personal View, *R. H. Hubbard* Nov. p. 410
Architecture of Early Ottawa, The, *Philip Shackleton* Nov. p. 442
Beauty in Nature and in Art, *Cecil S. Burgess* Part I, June p. 197; Part II, Aug. p. 300
Federal District Commission Architectural Committee, *A. S. Mathers* Nov. p. 430
Maritime Handcrafts, *Mary E. Black* Apr. p. 131
Music and the University, *Harry Adaskin* Sept p. 349
Recent Architecture in Saskatchewan, *K. Izumi* July p. 241
Stained Glass, *Angus Macdonald* June p. 218
Some Aspects of Japanese Architecture, *Keiiti Morita* Aug. p. 274
University and Architecture, The, *John A. Russell* Oct. p. 360
Visual Arts and the University, The, *R. H. Hubbard* Sept. p. 352
Zurich Airport at Kloten, The, *Paul Arthur* Feb. p. 31

FOREWORDS

The Hon. Robert H. Winters Apr. p. 101
His Excellency the Japanese Ambassador Aug. p. 273
His Excellency the Governor-General of Canada Dec. p. 451

GENERAL

After the Door is Open, *Gordon A. MacEachern* May p. 178
Economy of the Atlantic Provinces Today, The, *William Y. Smith* Apr. p. 118
Journey to Peking, *Sir Hugh Casson* Sept. p. 332
Ottawa on the Ottawa, *Mayor Charlotte Whitton* Nov. p. 405
Saskatchewan Celebrates a Birthday, *The Hon. T. C. Douglas* July p. 239

HISTORY

How Ottawa became the Capital, *Walter Bowker* Nov. p. 408
Maritimes – An Historical Sketch, The, *C. Bruce Fergusson* Apr. p. 102

INSTITUTE NEWS

Jan. p. 26; Feb. p. 59; Mar. p. 96; Apr. p. 140; May p. 186; June p. 230; July p. 270; Aug. p. 307; Sept. p. 355; Oct. p. 401; Nov. p. 446; Dec. p. 477.
48th Annual Assembly of the RAIC – Annual Dinner July p. 263
Annual Meetings of the Provincial Associations
- Manitoba May p. 186
- Quebec Apr. p. 141

Architect's Copyright Feb. p. 60
Income Tax Ruling June p. 231
Legal Documents June, p. 232; Oct. p. 401; Dec. p. 478
RAIC Standing Committees Aug. p. 307
Société des Architectes du District de Québec Jan. p. 26; Mar. p. 96; Apr. p. 144; Aug. p. 307

LANDSCAPE

Japanese Gardens, *Osamu Mori* Aug. p 295

OBITUARY

Boyde, John R. Aug. p. 307
Dewar, Maxwell C. May p. 186
Gillies, K. S. Oct. p. 401
Kitchen, John Macrae June p. 230
Porter, John Stormont May p. 187
Stoughton, Arthur Alexander Feb. p. 59

SCHOLARSHIPS AND AWARDS

Allied Arts Medal June p. 231
Canadian Government Overseas Awards Jan. p. 26
City of Ottawa Competition for a City Hall Sept. p. 356
City of Ottawa Competition for a Police Building Mar. p. 91

City of Vancouver Competition for a Civic Auditorium Mar. p. 97; June p. 231
Edward Langley Scholarship Mar. p. 97
Journal RAIC Annual Advertising Award June p. 227
Massey Medals for Architecture July p. 270; Dec. p. 451
Netherlands Government Scholarship 1955-1956 Apr. p. 144
Pilkington Travelling Scholarship June p. 231
RIBA Prizes and Studentships 1955-1956 Sept. p. 356
RAIC College of Fellows' Scholarship 1956 Dec. p. 478
University Awards at Schools of Architecture
British Columbia Oct. p. 402
Manitoba Aug. p. 308
Toronto June p. 231

SCHOOL OF ARCHITECTURE — THE UNIVERSITY OF BRITISH COLUMBIA March

VIEWPOINT
Architectural criticism Jan. p. 26
Architectural competitions Feb. p. 61
Is a Canadian character evident in architecture? Mar. p. 95
Specialization in architecture Apr. p. 140
The architect's aesthetic convictions and the client May p. 185
Is ruthless competition affecting quality? June p. 226
Do municipal by-laws lag behind practice? July p. 269
The curtain wall in modern design Aug. p. 306
Will posterity inherit cheap structures based on plans delivered at speed? Sept. p. 355
Will the Japanese open plan result in better living for Canadians than the earlier centre hall compact plan? Oct. p. 400
Flexibility is a highly overrated commodity Nov. p. 446
Is there an over emphasis on design in the schools? Dec. p. 476

ILLUSTRATIONS

COMMERCE AND FINANCE
25 Adelaide Street West, Toronto, Ont., *Architect, Earle L. Sheppard* May p. 170
Bank of Canada, Toronto, Ont., *Architects, Marani & Morris* Oct. p. 377
Bank of Montreal, Halifax, N.S., *Architect and Engineer, D. A. Webber* Apr. p. 129
Baynes and Manning Office Building, Vancouver, B.C., *Architect, Donald M. Manning* June p. 207
Bingo-machi, Building of the Sumitomo Bank, Osaka, Japan, *Architect, Shojiro Yamane* Aug. p. 292
Birks, Henry, & Sons (Maritimes) Ltd., Halifax, N.S., *Architect, Leslie R. Fairn* Apr. p. 128
Caisse Populaire Notre Dame de Hull, Que., *Architect, René Richard* Nov. p. 425
Cockfield Brown & Company Limited, Vancouver, B.C., *Architects, Sharp & Thompson, Berwick, Pratt* May p. 158
Cockfield Brown Building, Toronto, Ont., *Architects, Pentland & Baker* May p. 176
Columbia Securities Office Building, Vancouver, B.C., *Architects, Duncan McNab and Associates* May p. 159
Commonwealth Building, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 427
Convenience Centre, Don Mills, Ont., *Architects and Engineers, John B. Parkin Associates* Dec. p. 458
Crown Life Insurance Company, The, Head Office, Toronto, Ont., *Architects, Marani & Morris* June p. 208
Insurance Building, Winnipeg, Man., *Architects, Moody and Moore* Oct. p. 375
Linden Building, Wolfville, N.S., *Architect and Engineer, R. M. Peck* Apr. p. 130
Marlborough Hotel Parking Garage, Winnipeg, Man., *Architects, Libling Michener Diamond* Oct. p. 377
Maruei Department Store, Nagoya, Japan, *Architect, Togo Murano* Aug. p. 290
Office of C. D. Davison & Company, Halifax, N.S., *Architects, C. D. Davison & Company* Apr. p. 130
Office of Percy C. Underwood, Vancouver, B.C., *Architects, Underwood, McKinley and Cameron* June p. 216
Office Building, Montreal, Que., *Architects, Reuben Fisher, Powers & Kessler, N.Y., Howard T. Fisher and Associates, N.Y.* Oct. p. 381
Office Building, Montreal, Que., *Architect, Ben-Ami Shulman* Oct. p. 378
Office Buildings, Toronto, Ont., *Architects, Venchiarutti & Venchiarutti* Oct. p. 376, 379
Office Building, Vancouver, B.C., *Architects, C. B. K. Van Norman and Associates* Oct. p. 380
Polo Park Shopping Centre, Winnipeg, Man., *Architects and Consulting Engineers, Green, Blankstein, Russell and Associates* Oct. p. 374
Richmond Street Office Building, Toronto, Ont., *Architects, Page & Steele* May p. 156
Royal Bank of Canada, The, Halifax, N.S., *Architects, J. Philip Dumaresq & Associates; (S. G. Davenport, Bank Premises)* Apr. p. 129
Semmens and Simpson Office Building, Vancouver, B.C., *Architects, Semmens and Simpson* June p. 214
Times-Herald Building, Moose Jaw, Sask., *Architects, W. G. Van Egmond and Stan. E. Storey* July p. 246
Wawanesa Mutual Insurance Co., Toronto, Ont., *Architects, Page & Steele* Oct. p. 378
Westgate Shopping Centre, Ottawa, Ont., *Architects, Eliasoph and Berkowitz* Nov. p. 418
Yorkshire House, Vancouver, B.C., *Architects, McCarter, Nairne & Partners* May p. 166

COMMUNICATIONS
Canadian Overseas Telecommunication Corp., Montreal, Que., *Architect, A. Leslie Perry* Oct. p. 377
Telephone Exchange, Regina, Sask., *Architects and Engineers, Stock, Ramsay & Associates* July p. 256
Yorkton Telephone Exchange, Addition, Saskatchewan Government Telephones, *Architect and Engineer, H. K. Black* July p. 255

COMMUNITY PLANNING
Chandigarh, Punjab Jan p. 11
National Capital Plan, Ottawa Nov. p. 433

DOMESTIC
Apartment Building, Montreal, Que., *Architect Reuben Fisher* Oct. p. 369
Apartment Building, Toronto, Ont., *Architects, Gordon S. Adamson & Associates; Associate Architects, Bregman and Hamann* Oct. p. 369
Apartment Building, Toronto, Ont., *Architects, Page & Steele* Oct. p. 369
Apartment Buildings, Toronto, Ont., *Architects, Venchiarutti & Venchiarutti* Oct. Cover, p. 368
Apartments, Oakville Terrace, Oakville, Ont., *Architect, Michael Bach* June p. 205
CNR Hotel and Office Building, Montreal, Que., *Architect, George Drummond* Oct. p. 381
Guest House, Hudson Heights, Que., *Architects, Durnford, Bolton & Chadwick* Oct. p. 371
Holiday House of Dudley Murphy, Malibu, California, *Architect, Richard J. Neutra* Feb. p. 57
Home for the Aged, Metropolitan, Newmarket, Ont., *Architect, Howard Chapman* Oct. p. 370
Homes for the Aged, Toronto, Ont., *Architects, Page & Steele* Oct. p. 371
Hotel, Seaway, Toronto, Ont., *Architects, A. Elken & R. W. Becksted* Dec. p. 457
Hotel, Tsuruya, Extension, Hyogo, Japan, *Architect, Isoya Yoshida* Aug. p. 280
Hotel, Marlborough, Addition, Winnipeg, Man., *Architects, Libling Michener Diamond* Oct. p. 370
House of Mr J. C. Glube, Halifax, N.S., *Architect, R. M. Peck* Apr. p. 122
House of Mr L. A. Kitz, Halifax, N.S., *Architect, D. A. Webber* Apr. p. 121

House of Mr James Moore, Ojai, California, *Architect, Richard J. Neutra; Collaborator, Dion Neutra* Feb. p. 57
House of Mr Malcolm Neill, Fredericton, N.B., *Architect, D. W. Jonsson* Apr. p. 122
House of Mr A. Palmer, Ottawa, Ont., *Architects, Gilleland & Strutt* Nov. p. 419
House of Mr S. S. Reisman, Ottawa, Ont., *Architect, Charles Greenberg* Nov. p. 418
House of Mr H. M. Romans Halifax, N.S., *Architect, H. M. Romans* Apr. p. 122
House of Prof. K. Saito, Tokyo, Japan, *Architect, Kiyoshi Seike* Aug. p. 282
House of Mr Gordon Smith, West Vancouver, B.C., *Architects, Erickson & Massey* Dec. p. 456
House of Mr D. H. Stock, Regina, Sask., *Architect, D. H. Stock* July p. 253
House of Mr Warren Tremaine, Montecito, California, *Architect, Richard J. Neutra* Feb. p. 58
House of Mr L. Voyvodic, Ottawa, Ont., *Architects, Massey & Dirassar* Nov. p. 418
House of Mr Russell Yuill, Lancaster, N.B., *Architect, Rolf Duschenes* Apr. p. 121
House, Colorado Desert, California, *Architect, Richard J. Neutra* Feb. p. 56
House, Hamilton, Peterborough, Ont., *Architects, Blackwell, Craig and Zeidler* Dec. p. 456
House, Thorncrest Village, Ont., *Architects, Venchiarutti & Venchiarutti* Oct. p. 371
Housing Development, Manor Park, East Ottawa Nov. p. 419
Kiwanis Village, Victoria, B.C., *Architects, Sharp & Thompson, Berwick, Pratt, and Charles E. Craig* Dec. p. 455
Motel, Holiday House, Saskatoon, Sask., *Architect, Tinos Kortes* July p. 253
Staff Housing for the US Embassy, Tokyo, Japan, *Antonin Raymond, N.Y.* Aug. p. 287
Student Nurses' Residence, Vancouver General Hospital, B.C., *Architects, Townley and Matheson* Jan. p. 24

EDUCATION

Arts Building, Dalhousie University, Halifax, N.S., *Architects, Mathers & Haldenby; Leslie R. Fairn* Apr. p. 127
College of Medicine, University of Saskatchewan, *Architects, E. J. Gilbert and F. H. Portnall* July p. 257
Medical Building, University of Ottawa, Ont., *Architect, Jean-Serge LeFort* Nov. p. 426
Museum, Natural History, Regina, Sask., *Architects, McCudden and Robbins* Oct. p. 391
School, Albert Public, Regina, Sask., *Architect, E. M. Storey* July p. 244
School, Addition, Sussex, N.B., *Architect, Stanley W. Emmerson* Oct. p. 390
School, Addition to Balmoral Hall for Girls, Winnipeg, Man., *Architects, Moody and Moore* Oct. p. 390
School, Bedford, Montreal, *Architects, Durnford, Bolton & Chadwick* Oct. p. 389
School, Brunskill, Saskatoon, Sask., *Architects, Webster & Gilbert* July p. 244
School, Charleswood High, Man., *Architects, Northwood, Chivers, Chivers & Casey* Oct. p. 390
School, Chipman Regional, N.B., *Architects, Alward & Gillies* Apr. p. 126
School, Kamsack Collegiate Institute, Sask., *Architect and Engineer, H. K. Black* July p. 245
School, Norwood Collegiate Institute, Winnipeg, Man., *Architects, Smith, Carter, Katelnikoff* Oct. p. 389
School, Addition to Owen Sound Collegiate and Vocational Institute, Ont., *Architect, John Layng* Feb. p. 44
School, Oxford Regional High, N.S., *Architects, C. D. Davison & Company* Apr. p. 126
School, Public, Regina, Sask., *Architects and Engineers, Stock, Ramsay & Associates* July p. 244
School, Queen Charlotte High, Charlottetown, P.E.I., *Architects and Engineers, Downie, Baker & Ahern* Apr. p. 126
School, Queen Elizabeth, Saskatoon, Sask., *Architect, Frank J. Martin* July p. 245
School, Rockway Mennonite, Kitchener, Ont., *Architect, James A. Murray* June p. 211
School, St. Francis, Halifax, N.S., *Architects, C. A. Fowler and Company* Apr. p. 127
School, Saskatchewan Boys', Regina, *Architect, E. J. McCudden* July p. 244
School, Saskatchewan Training for Defectives, Moose Jaw, *Architect and Engineer, H. K. Black* July p. 258
School, Thompson High, North Sydney, N.S., *Architect, A. N. MacLeod* Apr. p. 125
School of Agriculture, University of Saskatchewan, *Architects, Portnall & Stock* July p. 245
Teachers' College, Toronto, Ont., *Architects, Page & Steele* Dec. p. 460

EXHIBITION AND RECREATION

Beaverbrook Theatre and Town Hall, Newcastle, N.B., *Architects, Stewart and Howell* Apr. p. 124
Food Products Building, CNE, Toronto, Ont., *Architect, Richard A. Fisher* June p. 201
O'Connor Bowl, Toronto, Ont., *Architects, Parrott, Tambling & Witmer* June p. 203
Public Hall, Ehime Prefecture, Matsuyama, Japan, *Architect, Kenzo Tange* Aug. p. 284
Refreshment Pavilion and Rest Rooms, Hog's Back Park, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 416
Saskatoon Club, Sask., *Architects, Kerr & Cullingworth* Oct. p. 383
Students' Union, Acadia University, Wolfville, N.S., *Architect and Engineer, R. M. Peck* Apr. p. 125
Women's Building, CNE, Toronto, Ont., *Architects, Page & Steele* Oct. p. 382
Woodbine Grandstand and Clubhouse, Toronto, Ont., *Architect, Earle C. Morgan* Oct. p. 383
Young Men's Christian Association, Moncton, N.B., *Architects, Ross, Patterson, Townsend & Fish* Apr. p. 123

GOVERNMENT

Armdale Post Office, Halifax, N.S., *Office of Chief Architect, Dept. of Public Works* Apr. p. 124
Building Research Centre, Ottawa, Ont., *Architect, J. C. Meadowcroft* Jan. p. 7
Canadian Government Printing Bureau, Hull, Que., *Architect, Ernest Cormier* Nov. p. 422
Central Mortgage & Housing Corporation, Ottawa, Ont., *Architects, Marani & Morris* Nov. p. 424
Customs Building, Vancouver, B.C., *Architects, C. B. K. Van Norman and Associates* May p. 164
Dominion Bureau of Statistics, Tunney's Pasture, Ottawa, Ont., *Architects, Ross, Patterson, Townsend & Fish* Nov. p. 424
Federal Public Building, Regina, Sask., *Architects, W. G. Van Egmond and Stan. E. Storey* July p. 254
Geological-Geographical Surveys Building, Dept. of Mines and Technical Surveys, Ottawa, Ont., *Architects, Allward & Gouinlock* Nov. p. 421
Government Administration Building, Regina, Sask., *E. J. McCudden, Provincial Architect* May p. 168
Harbour Administration Building, Hamilton, Ont., *Architects, Murton and Barnes* May p. 167
Manitoba Power Commission Building, Winnipeg, Man., *Architects and Consulting Engineers, Green, Blankstein, Russell and Associates* May p. 171
Maritime Regional Laboratory, NRC, Dalhousie University, Halifax, N.S., *Architects, Chief Architect, Dept. of Public Works; Leslie R. Fairn* Apr. p. 125
National Film Board, Montreal, Que., *Architects, Ross, Patterson, Townsend & Fish; Consulting Architects, John and Drew Eberson, N.Y.* Oct. p. 392
New Brunswick Electric Power Commission, Fredericton, N.B., *Architect, J. L. Feeney* Apr. p. 130
Okayama Prefectural Office, Okayama, Japan, *Architect, Kunio Mayekawa* Aug. p. 287
Public Building, Pictou, N.S., *Architects, Davison, Duffus, Romans & Davis* Oct. p. 392
Royal Canadian Mounted Police Headquarters, Ottawa, Ont., *Architect, A. Martineau* Nov. p. 424
St. Lawrence Seaway Headquarters, Cornwall, Ont., *Architects, Gordon S. Adamson & Associates* Oct. p. 376
Science Service Laboratory, Dept. of Agriculture, University of Manitoba Campus, *Architects, Moody and Moore* Oct. p. 393
Veterans' Memorial Buildings, Ottawa, Ont., *Architects, Allward & Gouinlock* Nov. p. 421
Workmen's Compensation Board, Toronto, Ont., *Associated Architects, Page & Steele and Thomas R. Wylie & Associates* Oct. p. 392

Workmen's Compensation Building, Regina, Sask., *Architect, E. J. McCudden* July p. 254

HEALTH

Health Centre, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 427
Health and Welfare Building, Vancouver, B.C., *Architects, Semmens and Simpson* May p. 153
Hospital, Balcarres Union, Sask., *Architect and Engineer, H. K. Black* July p. 261
Hospital, Children's, Halifax, N.S., *Architects, C. A. Fowler and Company* Apr. p. 123
Hospital, City, Addition, Saskatoon, Sask., *Architect, Frank J. Martin* July p. 257
Hospital, DVA and Deer Lodge Development, Winnipeg, Man., *Architects, Moody and Moore* Oct. p. 384
Hospital, Greater Niagara General, Niagara Falls, Ont., *Architects and Engineers, John B. Parkin Associates* Oct. p. 384
Hospital, Kanto Area Telecommunication Ministry, Tokyo, Japan, *Architectural Department, Nippon Telegraph and Telephone Corporation* Aug. p. 288
Hospital, Misericordia General, Winnipeg, Man., *Architects, Northwood, Chivers, Chivers & Casey* Oct. p. 386
Hospital, Montreal General, Que., *Architects, McDougall, Smith & Fleming* Sept. p. 311
Hospital, Osaka Welfare Pension, Osaka, Japan, *Architect, Mamoru Yamada* Aug. p. 291
Hospital, Regina General, Sask., *Architects, W. G. Van Egmond and Stan. E. Storey* July p. 257
Hospital, Rosthern Union, Sask., *Architects, Webster & Gilbert* July p. 261
Hospital, Saguenay General, Arvida, Que., *Architects, Durnford, Bolton & Chadwick* Oct. p. 386
Hospital, St. Louis de Montfort, Ottawa, Ont., *Architects, Jean-Serge LeFort and Wm. H. Gilleland* Nov. p. 426
Hospital, Weyburn Union, Sask., *Architect and Engineer, H. K. Black* July p. 257
Hospital, Winnipeg General, Addition, Man., *Architects, Moody and Moore* Oct. p. 385
Medical Services Association Offices, Vancouver, B.C., *Architects, Sharp & Thompson, Berwick, Pratt* May p. 170
Nursing Home, Saskatchewan, Melfort, *Architects and Engineers, Stock, Ramsay & Associates* July p. 258
Polio Clinic and Health Centre, Fredericton, N.B., *Architect, D. W. Jonsson* Apr. p. 103

INDUSTRY

B.C. Sugar Refinery, Limited, Vancouver, *Architects, Semmens and Simpson* Dec. p. 461
Bowman Brothers Limited, Yorkton, Sask., *Architect and Engineer, H. K. Black* July p. 246
British American Oil Company Limited, The, Vancouver, B.C., *Architect, John H. Harvey* May p. 161
Canada Packers Limited, Toronto, Ont., *Architects, Fleury and Arthur* Oct. p. 387
Canadian General Electric Company Ltd., Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 427
Crane Limited, Moncton, N.B., *Architect, H. Claire Mott* Apr. p. 129
Empire Fuels Limited, Saskatoon, Sask., *Architect, Tinos Kortes* July p. 247
Ford Motor Co. of Canada Ltd., Parts Depot, Regina, Sask., *Architects and Engineers, Stock, Ramsay & Associates* July p. 247
Grand & Toy Ltd., Don Mills, Ont., *Architects and Engineers, John B. Parkin Associates* Oct. p. 379
Hall Fuel Limited, Ottawa, Ont., *Architects, Gilleland & Strutt* Nov. p. 426
Husky Oil & Refining Ltd., Saskatoon, Sask., *Architect, Tinos Kortes* July p. 247
Imperial Oil Ltd., Toronto, Ont., *Architects, Mathers & Haldenby* Oct. p. 375
Imperial Oil Ltd., Engineering Building, Sarnia, Ont., *Architects and Engineers, John B. Parkin Associates* Oct. p. 387
McColl Frontenac Oil Co. Ltd., Toronto, Ont., *Architects and Engineers, John B. Parkin Associates* May p. 174
Ortho Pharmaceutical Corporation (Canada) Ltd., Don Mills, Ont., *Architects and Engineers, John B. Parkin Associates* Oct. p. 379
Simpsons-Sears Industrial Development, Etobicoke, Ont., *Architects and Engineers, John B. Parkin Associates* Dec. p. 458
Stairs, Wm., Son & Morrow Limited, Halifax, N.S., *Architects, J. Philip Dumaresq & Associates* Apr. p. 128
Standard Electric Co. Ltd., Montreal, Que., *Architects, Lazar & Sterlin* May p. 154

LIBRARIES

Library, Halifax Memorial, N.S., *Architect, Leslie R. Fairn* Apr. p. 124
Library, National, and Archives Building, Ottawa, Ont., *Architects, Mathers & Haldenby* Aug. p. 303

MISCELLANY

Canadian Construction Association, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie; Associate Architects, Burgess and McLean; Hazelgrove & Lithwick* Dec. p. 465
Ontario Association of Architects, Toronto, *Architects, and Engineers, John B. Parkin Associates* Dec. p. 461

RELIGION

Church, All Saints Anglican, Saskatoon, Sask., *Architect, George H. Kerr* Oct. p. 372
Church, First of the Nazarene, Saskatoon, Sask., *Architect, Tinos Kortes* July p. 243
Church, Kingsway United, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 428
Church, Redeemer Lutheran, Regina, Sask., *Architects, W. G. Van Egmond and Stan. E. Storey* July p. 257
Church, St. Anthony's, Agassiz, B.C., *Architects, Gardiner, Thornton, Gathe & Associates* Dec. p. 459
Church, St. Giles Presbyterian, Peterborough, Ont., *Architects, Blackwell, Craig and Zeidler* Jan. p. 21
Church, St. Jean Gualbert, Laval-sur-le-Lac., Que., *Architect, Claude Longpré; Associate Architects, Crevier, Lemieux & Mercier* Sept. p. 329
Church, St. Mark's Anglican, Carleton Heights, Ottawa, Ont., *Architects, Gilleland & Strutt* Nov. p. 428
Church, St. Peter's Lutheran, Ottawa, Ont., *Architects, Burgess and McLean* Nov. p. 428
Church, St. Raphael, Toronto, Ont., *Architects, Venchiarutti & Venchiarutti* Oct. p. 372
Church, Ukrainian Greek Orthodox, Saskatoon, Sask., *Architect, Frank J. Martin* July p. 243
Synagogue, Temple Beth Sholom, Montreal, Que., *Architects, Arnold Schrier and Sydney Gerson* Oct. p. 373
Synagogue, Ville St. Laurent, Montreal, *Architect, Arnold Schrier* Oct. p. 373
Synagogue and School, Winnipeg, Man., *Architects, Libling Michener Diamond* Oct. p. 373

SELECTED DETAILS

Anglo Canada Fire and General Insurance Company, Toronto, Ont., *Architect, James A. Murray* May p. 163
Office Building for Brampton, Ont., *Architects, Wilson and Newton* May p. 162

TRANSPORT

Air Terminal Building, Gander, Nfld., *Architects, Durnford, Bolton & Chadwick* Oct. p. 393
Air Terminal Building, Saskatoon, Sask., *Architects, Webster & Gilbert* July p. 254
Airport, Zurich, Switzerland, *Architects, A. & H. Oeschger* Feb. p. 32
Transit System, City of Regina, Car House, Sask., *Architect and Engineer, H. K. Black* July p. 255
Walkley Road Railway Yard Office, Ottawa, Ont., *Architects and Engineers, Abra and Balharrie* Nov. p. 426

AUTHORS AND CONTRIBUTORS

Abra and Balharrie, Nov. p. 416, 426, 427, 428; Dec. p. 465. *Abram, G. S.,* Nov. p. 446. *Adamson, A. P. C.,* May p. 185; Oct. p. 402. *Adamson, Gordon S.,* May p. 185. *Adamson, Gordon S., & Associates,* Oct. p. 369, 376. *Adaskin, Harry,* Sept. p. 349. *Affleck, Ray,* Mar. p. 94. *Agnew, H. R.,* July p. 270. *Agnew, Harvey,* Mar. p. 98. *Albarda, Jan H.,* Mar. p. 96; Apr. p. 144; Dec. p. 476. *Allward & Gouinlock,* Nov. p. 420, 421. *Alward & Gillies,* Apr. p. 126. *Arthur, Eric,* Mar. p. 99; June p. 236. *Arthur, Paul,* Feb. p. 31.

Bach, Michael, June p. 205; Aug. p. 309. *Baker, Langton G.,* Oct. p. 401. *Balharrie, Watson,* Feb. p. 61. *Barker, Kent,* May p. 185; Nov. p. 446. *Barott, Ernest,* Feb. p. 61. *Becksted, R. W.,* Dec. p. 457. *Betts, Randolph C.,* Apr. p. 141. *Black, H. K.,* June p. 226; July p. 245, 246, 255, 257, 258, 261. *Black, Mary E.,* Apr. p. 131. *Blackwell, Craig and Zeidler,* Jan. p. 21; Dec. p. 456. *Blair, D. L.,* Apr. p. 141. *Bland, John,* May p. 185. *Blouin, André,* Sept. p. 358. *Bolton, Richard E.,* Apr. p. 140. *Bowker, Walter,* Nov. p. 408, 438. *Bregman and Hamann,* Oct. p. 369. *Brennan, Frank,* Feb. p. 59; July p. 269. *Brooks, Charles H.,* Aug. p. 307. *Brown, F. Bruce,* Apr. p. 140. *Brown, Ian M.,* July p. 269. *Burgess, Cecil S.,* May p. 186; June p. 197; Aug. p. 300; Oct. p. 365. *Burgess and McLean,* Nov. p. 428; Dec. p. 465.

Caspari, Peter, Sept. p. 356. *Casson, Sir Hugh,* Sept. p. 332. *Chapman, Howard,* Aug. p. 309; Sept. p. 355; Oct. p. 370. *Coop, Isadore,* Dec. p. 477. *Cormier, Ernest,* Nov. p. 422. *Craig, Charles E.,* Dec. p. 455. *Craig, James S.,* May p. 186. *Crevier, Lemieux & Mercier,* Sept. p. 329.

Davenport, S. G., Apr. p. 129. *Davies, Robertson,* Jan. p. 26. *Davison, Keith B.,* Oct. p. 400. *Davison, C. D., & Company,* Apr. p. 126, 130. *Davison, Duffus, Romans & Davis,* Oct. p. 392. *Dawes, Fred,* May p. 187. *Desbarats, Guy,* Mar. p. 94, 95. *Dickens, H. B.,* Jan. p. 3. *Dickinson, Peter,* Mar. p. 91; June p. 226. *Donahue, A. J.,* Sept. p. 355. *Dorey, D. B.,* Oct. p. 394. *Douglas, The Hon. T. C.,* July p. 239. *Downie, Baker & Ahern,* Apr. p. 126. *Dumaresq, J. Philip,* Nov. p. 446. *Dumaresq, J. Philip, & Associates,* Apr. p. 128, 129. *Dunlop, D. T.,* June p. 226. *Durnford, Bolton & Chadwick,* Oct. p. 371, 386, 389, 393. *Duschenes, Rolf,* Apr. p. 121. *Drummond, George,* Oct. p. 381.

Eberson, John and Drew, N.Y., Oct. p. 392. *Eliasoph and Berkowitz,* Nov. p. 418. *Elken, A.,* Dec. p. 457. *Emmerson, Stanley W.,* Oct. p. 390. *Erickson & Massey,* Dec. p. 456.

Fairfield, Robert, July p. 269. *Fairn, Leslie R.,* Apr. p. 124, 125, 127, 128. *Feeney, J. L.,* Apr. p. 130. *Fergusson, C. Bruce,* Apr. p. 102. *Filion, Armand,* Sept. p. 311. *Fiset, Edouard,* Jan. p. 27, 28; Apr. p. 142. *Fisher, Howard T., & Associates, N.Y.,* Oct. p. 381. *Fisher, Reuben,* Oct. p. 369, 381. *Fisher, Richard A.,* June p. 201. *Fisher, W. S.,* June p. 231. *Fleury, W. E.,* Nov. p. 448. *Fleury and Arthur,* Oct. p. 387. *Fliess, Henry,* June p. 230; Sept. p. 355. *Foster, K. H.,* Sept. p. 355. *Fowler, C. A., and Company,* Apr. p. 123, 127.

Gardiner, Thornton, Gathe & Associates, Dec. p. 459. *Gerson, Sydney,* Oct. p. 363. *Gerson, Wolfgang,* Aug. p. 306. *Gibson, Wm. A.,* July p. 269. *Gilbert, E. J.,* July p. 257. *Gilleland, Wm. H.,* July p. 269; Nov. p. 426. *Gilleland & Strutt,* Nov. p. 419, 426, 428. *Goulding, William S.,* Mar. p. 95; June p. 227. *Govan, James,* Apr. p. 140. *Governor-General of Canada, His Excellency The,* Dec. p. 451. *Green, Blankstein, Russell and Associates,* May p. 171; Oct. p. 374. *Greenberg, Charles,* Nov. p. 418. *Grossman, Irving,* Mar. p. 98; May p. 187; Nov. p. 446.

Hall, John A., Mar. p. 99. *Harvey, John H.,* May p. 161. *Haywood,, Allan R.,* Aug. p. 306. *Hazelgrove, A. J.,* June p. 230. *Hazelgrove & Lithwick,* Dec. p. 465. *Hiscocks, C. R.,* June p. 222. *Holden, W. F.,* Oct. p. 401. *Hubbard, R. H.,* Sept. p. 352; Nov. p. 410. *Hume, F. J.,* June p. 231. *Hutcheon, Neil B.,* Sept. p. 388.

Imrie, Mary L., Mar. p. 95. *Izumi, K.,* July p. 241.

Japanese Ambassador, His Excellency The, Aug. p. 273. *Jonsson, D. W.,* Apr. p. 122, 123.

Kennedy, Howard, Nov. p. 429. *Kerr, George H.,* Oct. p. 372. *Kerr & Cullingworth,* Oct. p. 383. *Knight, Lane,* May p. 150. *Kortes, Tinos,* July p. 243, 247, 253. *Kyro, Wallace A. M.,* Oct. p. 400.

Lacoursière, Arthur, Nov. p. 446. *Lasserre, Fred,* Feb. p. 61; Mar. p. 66, 97; Aug. p. 306; Nov. p. 449. *Layng, John,* Feb. p. 44. *Lazar & Sterlin,* May p. 154. *Lebensold, Fred,* Mar. p. 94. *LeFort, Jean-Serge,* Nov. p. 426. *Legget, R. F.,* Jan. p. 3; June p. 233. *Libling Michener Diamond,* Oct. p. 371, 373, 377. *Longpré, Claude,* Sept. p. 329; Dec. p. 476.

Macdonald, Angus, June p. 218. *MacDonald, John A.,* Sept. p. 355. *MacEachern, Gordon A.,* May p. 178. *MacLeod, A. N.,* Apr. p. 125. *Madill, H. H.,* May p. 188. *Mainguy, Lucien,* Jan. p. 27. *Mainguy, Noel,* Jan. p. 26; Mar. p. 96; April p. 144; Aug. p. 307. *Manning, Donald M.,* June p. 207. *Marani, F. H.,* Feb. p. 62. *Marani & Morris,* June p. 208; Oct. p. 377; Nov. p. 424. *Martin, Frank J.,* July Editorial, 243, 245, 257. *Martineau, A.,* Nov. p.. 424. *Massey, Hart,* Feb. p. 62. *Massey & Dirassar,* Mar. p. 94; Nov. p. 418. *Masson, George Y.,* June p. 226. *Mathers, A. S.,* Feb. p. 62; Nov. p. 430; Dec. p. 462. *Mathers & Haldenby,* Apr. p. 127; Aug. p. 303; Oct. p. 375. *Mayekawa, Kunio,* Aug. p. 287. *McCarter, J. Y.,* May p. 187. *McCarter, Nairne & Partners,* May p. 166. *McCudden, E. J.,* May p. 168; July p. 244, 254. *McCudden and Robbins,* Oct. p. 391. *McDougall & Friedman,* Sept. p. 324. *McDougall, Smith & Fleming,* Sept. p. 311. *McNab, Duncan, and Associates,* May p. 159. *Meadowcroft, J. C.,* Jan. p. 7. *Moody, H. H. G.,* Jan. p. 27. *Moody and Moore,* Oct. p. 375, 384, 385, 390, 393. *Morgan, Earle C.,* Oct. p. 383; Dec. Editorial. *Mori, Osamu,* Aug. p. 295. *Morita, Keiiti,* Aug. p. 274. *Mott, H. Claire,* Apr. p. 129. *Mowat, Alex S.,* Apr. p. 134. *Murano, Togo,* Aug. p. 290. *Murray, James A.,* Jan. p. 27; May p. 163; June p. 211; Aug. p. 306. *Murton and Barnes,* May p. 167.

Neutra, Dion, Feb. p. 57. *Neutra, Richard J.,* Feb. p. 48, 56. *Nobbs, Francis J.,* Dec. p. 476. *Northwood, Chivers, Chivers & Casey,* Oct. p. 386, 390.

Oeschger, A. & H., Feb. p. 35. *Oxley, Loren,* Dec. p. 478.

Page & Steele, May p. 156; Oct. p. 369, 371, 378, 382, 392; Dec. p. 460. *Paine, A. J. C.,* Jan. Editorial. *Parkin, John B., Associates,* May p. 174; Oct. p. 379, 384, 387; Dec. p. 458, 461. *Parrott, Tambling & Witmer,* June p. 203. *Peck, R. M.,* Apr. p. 122, 125, 130. *Pentland & Baker,* May p. 176. *Perry, A. Leslie,* Oct. p. 377. *Piersol, George H.,* May p. 177. *Plewes, W. G.,* Sept. p. 342. *Pokorny, G. K.,* July p. 269; Aug. p. 308. *Porter, John C. H.,* Mar. p. 95. *Portnall, F. H.,* July p. 257. *Portnall & Stock,* July p. 245. *Powers & Kessler, N.Y.,* Oct. p.. 381. *Pratt, C. E.,* May p. 185. *Prus, Victor,* Oct. p. 400.

Raymond, Antonin, N.Y., Aug. p. 287. *Raymore, W. G.,* Aug. p. 308. *Richard, René,* Nov. p. 425. *Ritchie, T.,* Sept. p. 342. *Robertson, Helen,* Jan. p. 3. *Romans, H. M.,* Apr. p. 122. *Ross, Graeme,* Sept. p. 331. *Ross, Patterson, Townsend & Fish,* Apr. p. 123; Oct. p. 392; Nov. p. 424. *Rother, Vincent,* Mar. p. 95. *Russell, John A.,* Feb. p. 59; May p. 189; June, p. 193; Oct. p. 361, 400.

Schrier, Arnold, Oct. p. 373. *Sefton, W.,* Dec. p. 470. *Seike, Kiyoshi,* Aug. p. 282. *Sellors, Roy,* Nov. p. 446. *Semmens and Simpson,* May p. 153; June p. 214; Dec. p. 461. *Servos, Robert A.,* Dec. p. 476. *Shackleton, Philip,* Nov. p. 442. *Sharp & Thompson, Berwick, Pratt,* May p. 158, 170; Dec. p. 455. *Sheppard, Earle L.,* May p. 170. *Shulman, Ben-Ami,* Oct. p. 378. *Sise, Hazen,* Jan. p. 27. *Smith, Ernest J.,* June p. 226. *Smith, J. Roxburgh,* Apr. p. 140. *Smith, William Y.,* Apr. p. 118. *Smith, Carter, Katelnikoff,* Oct. p. 389. *Stewart, Clair,* June p. 227. *Stewart and Howell,* Apr. p. 124. *Stock, D. H.,* July p. 253. *Stock, Ramsay & Associates,* July p. 244, 247, 256, 258. *Storrar, William,* Sept. p. 322. *Strutt, James W.,* Nov. p. 447.

Tange, Kenzo, Aug. p. 284. *Tanner, Robert H.,* Oct. p. 398. *Tedman, Blake H. M.,* Aug. p. 306. *Thomas, Lewis H.,* July p. 248. *Toward, Lilias M.,* Apr. p. 114. *Townley and Matheson,* Jan. p. 24. *Turcotte, E. J.,* June p. 227. *Tyrwhitt, Jaqueline,* Jan. p. 11.

Underwood, McKinley and Cameron, June p. 216.

Van Egmond, W. G., and Stan. E. Storey, July p. 243, 246, 254, 257. *Van Norman, C. B. K., and Associates,* May p. 164; Oct. p. 380. *Venchiarutti & Venchiarutti,* Oct. Cover, 368, 371, 372, 376, 379.

Watson, William A., June p. 226. *Weatherstone, Alan,* May p. 147. *Webber, D. A.,* Apr. p. 121, 129. *Webster & Gilbert,* July p. 244, 254, 261. *Whitton, Mayor Charlotte,* Mar. p. 91; Nov. p. 405. *Wilson, G. E.,* Aug. p. 306. *Wilson and Newton,* May p. 162. *Winters, The Hon. Robert H.,* Apr. p. 101. *Winston, Denis,* May p. 181. *Woodsworth, Charles J.,* Nov. p. 431. *Wylie, Thomas R., & Associates,* Oct. p. 392.

Yamada, Mamoru, Aug. p. 291. *Yamane, Shojiro,* Aug. p. 292. *Yoshida, Isoya,* Aug. p. 280.

Zeidler, Eberhard H., Oct. p. 400.

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