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Quebec Asbestos Mining Association

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Exam of R. J. Merrill

April 5, 1989
Shannon Kernaghan
Official Reporter

QUEBEC
ASBESTOS MINING
ASSOCIATION

SPECIAL SUMMER MEETING

CASTLE HARBOUR HOTEL,

GOLF &

BEACH CLUB

SEPTEMBER 19-22, 1968

W.W. Oughtred

President

Paul A. Fiteau

General Manager

QUEBEC
ASBESTOS MINING
ASSOCIATION

PLAINTIFF'S
EXHIBIT
42570

ASBESTOS CORPORATION LTD.,
THETFORD MINES, QUE.

BELL ASBESTOS MINES LTD.,
THETFORD MINES, QUE.

CANADIAN JOHNS-MANVILLE CO. LTD.,
ASBESTOS, QUE.

CAREY-CANADIAN MINES LTD.,
EAST BROUGHTON, QUE.

FLINKOTE MINES LTD.,
THETFORD MINES, QUE.

LAKE ASBESTOS OF QUEBEC LTD.,
BLACK LAKE, QUE.

NATIONAL ASBESTOS MINES LTD.,
THETFORD MINES, QUE.

NICOLET ASBESTOS MINES LTD.,
NORBESTOS, QUE.

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1. LIST OF OFFICERS AND DIRECTORS

OFFICERS AND DIRECTORS

Mr. W.W. Dughtred	President
Mr. K.V. Lindell	Vice-President
Mr. R.S. Coleman	Director
Mr. J.A. Main	Director
Mr. R.J. Merrill	Director
Mr. M.J. Messel	Director
Mr. P.A. Meyer	Director
Mr. F.P. Smith	Director
Mr. Ivan Sabourin	General Counsel
Mr. George Robinson	Treasurer
Mr. Paul-A. Filteau	General Manager & Secretary

COMMITTEE CHAIRMEN

Mr. R. Dodds-Habron	Technical Committee
Mr. W.H. Foster	Uniform Classification and Grading Committee
Mr. I.C. Campbell	Public Relations Committee
Mr. I.C. Campbell	Traffic Committee
Mr. J.D. Eby	Industrial Relations Committee
Mr. M.J. Messel	Legislation and Taxation Committee
Mr. K.V. Lindell	Occupational and Environmental Health Committee
Mr. J.R.M. Hutcheson	Dust Abatement Committee

2. LIST OF MEMBERS AND GUESTS

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

MEMBERS AND GUESTS

Asbestos Corporation Limited: Mr. W.W. Oughtred
Mr. P.H. R. R. R.
Mr. I.C. Campbell
Mr. W.H. Foster

Bell Asbestos Mines Limited: Mr. F.P. Smith
Mr. G.W. Smith
Mr. R. Dodds-Hebron
Mr. W.J.W. Smith

Canadian Johns-Manville Co. Ltd: Mr. C.B. Burnett
Mr. D.T. Colton
Mr. D. Poutiatine
Mr. K.V. Underhill
Mr. J.O. Eby
Mr. N.W. Hendry
Mr. J.R.M. Hutcheson

Carey-Canadian Mines Limited: Mr. R.J. Merrill
Mr. A.H. Bagenstose

Flintkote Mines Limited: Mr. J.A. Main
Mr. D. Poirier

Lake Asbestos of Quebec Limited: Mr. R.D. Bradford
Mr. R. Hennebach
Mr. M.J. Messel

National Asbestos Mines Limited: Mr. J.W. Duncan
Mr. R.S. Coleman

Nicolet Asbestos Mines Limited: Mr. P.A. Meyer

Cassiar Asbestos Corporation Ltd: Mr. J.D. Christian

Institute of Occupational and Environmental Health (QAMA): Dr. G.W. Wright

Quebec Asbestos Mining Association: Mr. G. Robinson
Mr. I. Sabourin

Mr. Paul-A. Filteau

3. AGENDA

SPECIAL MEETING OF THE
QUEBEC ASBESTOS MINING ASSOCIATION
TO BE HELD SEPTEMBER 20 & 21, 1968

AT 9.30 a.m. IN THE CASTLE HARBOUR GOLF & BEACH CLUB

AGENDA

SEPTEMBER 20, 1968

1. Minutes of the Meeting of July 30, 1968.
2. Committee Reports:
 - a) Technical
 - b) Uniform Classification and Grading
 - c) Industrial Relations - Resolutions re Transfer of ownership of Mine Rescue equipment.
 - d) Traffic
 - e) Legislation and Taxation
 - f) Public Relations
 - g) Dust Abatement
3. New Business.
4. Comments on General Business Conditions.
5. Proposed dates and locations of future special meetings.

6. Adjournment

SEPTEMBER 21, 1968

1. Occupational and Environmental Health Committee.
 - Recommendations with regard to further studies pertinent to a solution of the health problems posed by the biological effects of asbestos fibres.
2. Adjournment.

4 MINUTES OF MEETING OF JULY 30, 1968

MINUTES OF THE 106 MEETING OF THE
QUEBEC ASBESTOS MINING ASSOCIATION
HELD ON TUESDAY, JULY 30, 1968,
AT THE BONAVENTURE HOTEL, MONTREAL, QUE.

Present:

Messrs. W.W. Oughtred	P.A. Meyer	J.R.M. Hutcheson
K.V. Lindell	F.P. Smith	H.S. Jobbins
R.S. Coleman	F. Bolduc	D. Poirier
J.A. Main	I.C. Campbell	P.H. Riordon
R.J. Merrill	R. Dodds-Hebron	I. Sabourin
M. J. Messel	W.H. Foster	P.A. Filteau

In his opening remarks, the President congratulated Mr. R.J. Merrill for his recent appointment as President of Carey Canadian Mines Limited. He also extended the condolences of the Association to the A.S. Johnson family. The General Manager was requested to forward flowers and a letter expressing the feelings of the Directors on this sad occasion.

Minutes of the Meeting of May 31st were adopted as distributed and amended in first paragraph of page 10.

TECHNICAL COMMITTEE

The Committee met on July 22nd and the Chairman reported as follows:

1. Filtration of Asbestos-Cement-Silica Mixes - The Subcommittee is scheduled to elaborate a new approach toward the accomplishment of their assigned task.

The question of applying correction factors to the cement, and the necessity of setting up cement blending facilities are of vital importance, since reproducible results have been shown to be dependent upon uniform cement.

6. Following the Copant meeting in San Francisco, Mr. J.R.M. Hutcheson has been officially acknowledged as delegate of the Q.A.M.A. and of U.S.A. to this international body.

UNIFORM CLASSIFICATION AND GRADING COMMITTEE

Sherbrooke Laboratory - The new University scale of salaries was received and increases of about 8% are effective July 1st. This adds a total of \$2,017 to our salary cost for the year 1968-9. However, we should end 1968 about \$8,000. under budget for salaries due to having less personnel.

The Director was offered a position at \$13,000. per year, compared to his scheduled \$10,620. (as of 1 June/68). The U.C.&G. Committee, at the July 3/68 meeting, approved in principle an increase to \$12,000., if necessary.

To suit the University scale and salary formula the Q.A.M.A. President authorized \$12,120 per year. Mr. Cossette has decided to stay. The approval of the President was formally ratified by the Directors.

The Chairman also advised that the U.C.&G. Committee met on July 3 and that the following points might be of interest to Directors:

A revision to the price list of tests as performed at Sherbrooke is in progress.

The Committee agreed that sampling and testing of fibres containing additives was meaningless, therefore, unnecessary.

It was agreed that, effective with the August 1968 report, companies will report correlated Q.S. tests in future on the Monthly Shipping Test Reports.

The procedure for "Random Q.S. Production Sampling" was revised. The need for distinguishing between Q.S. and S.U. fibres becomes apparent. Some further technical points in connection with this "Q.S. Sampling" program were settled.

A visit from Mr. Winer indicates that a program of testing out nitrogen absorption at Sherbrooke may be indicated for 1969. The Chairman of the Technical Committee and the U.C. & G. Committee will probably visit Ottawa in September to discuss this and other areas in which this Ottawa department might be helpful.

INDUSTRIAL RELATIONS COMMITTEE

A regular meeting was held Tuesday, July 23.

A review of the contracts of Lake and Bell Companies, and the problems encountered, took the major part of the meeting. A considerable discussion of the effect on contracts for 1969 took place. The minimum pattern appears to be 5% plus additional fringe benefits.

The steelworkers activities at this time are reported to be nil, but rumors seem to suggest considerable action when the present contracts' re-opening dates arrive.

The Ventilation Engineer reported that his dust counter has been repaired and is continuing with his correlation with the impinger.

It appears that it will be a very useful instrument. He will also try to check it against other dust collection counters.

Liaison Committee with Workmen's Compensation Board - As provided in section 3 of the Workmen's Compensation Act, a Committee has been formed to represent part of the employers listed under Class 5, i.e. the employers members of the O.M.M.A. and O.A.M.A. The functions of this committee are to watch over the interest of the Associations in the interpretation and application of the act and to consult periodically with the W.C.B. and the employers.

Mr. J.O. Eby is the delegate of our Association on this Committee. So far, the members have visited twice with the President of the Workmen's Compensation Board, Judge Marineau, who welcomed the initiative of our Associations and promised the entire cooperation of the Commission.

TRAFFIC COMMITTEE

A) The imposition of exparte increase No. 259 on all U.S. rail traffic has resulted in a 3% increase on asbestos rates effective June 30th. This is an interim measure pending consideration by I.C.C. of U.S.R.R.'s request for a 5% increase.

B) Mid Atlantic Conference Truck Conference (Eastern U.S.) has tabled a proposal for new revised rates on asbestos based on cost which are not acceptable to the trade. A meeting has been arranged to discuss the matter with the Truck Operators on August 7th in Montreal.

C) The old River Plate Conference, which disbanded last year has been reorganized into what is now called the Interamerican Freight Conference, and a Canadian Section comprised of seven lines of this Conference (Argentine, Brodin, Columbus, Lloyd Brasileiro, Moore McCormack, Netumar, Uruguyan), has been established in Montreal. This is something the Association has been fighting for some time. They are proposing a 10% increase on asbestos rates effective the 15th September. A meeting is being arranged to discuss this proposal at the end of August.

D) The Continental service continues to be unsatisfactory mainly because of the after effects of the seaway strike and continued dock labour troubles. Unless there is some improvement in the latter part of the year, we will have to consider operating non-conference next year.

E) The Canadian Shippers Council is meeting in Ottawa on August 8th to discuss forthcoming legislation governing the operation of steamship conferences in Canada.

F) The Chairman reported that he had a visit from two officials of the National Harbours Board who are conducting a survey as to the anticipated growth and the use of the Port of Three Rivers, with the idea of expanding the facilities at that port. Questionnaires have been forwarded to the Traffic Managers of each member companies.

LEGISLATION AND TAXATION COMMITTEE

The Chairman remarked that taxes seem to increase year after year, especially school taxes.

Two bills assented to by the Provincial Government on July 5 are of interest to the mining industry. Bills #48 and #49 are meant to amend the Mining Act and the Mining Duties Act with respect mainly to exploration, development and use of underground reservoirs, such as petroleum and natural gas. Certain clauses, however, envisage changes to the Mining Act which concern specifically exploration and mining operations.

Bill # 48

A) Section 4 reduces from 60 to 30 days the delay for appeal from the Minister's decision cancelling a claim.

Sections 5 and 6 provide that claims and mining leases do not confer the right to develop or use underground reservoirs.

B) Sections 18 and 19 of the bill clarify the requirements of the last paragraph of section 224 of the act by making it obligatory, in all cases of expropriation, to obtain prior authorization from the Lieutenant-Governor in Council after notice to the owner.

C) Sections 21 and 22 oblige not only every operator, but also every holder of mining rights carrying on underground mining exploration work, to keep up to date certain plans and to deliver to the Minister any other plan that he may require under the act.

Section 23 obliges not only the operator but also any person engaged in mining exploration to notify the Minister of Natural Resources of any accident that occurs during the exploration or operation of a mine.

D) Section 25 limits to one square mile, instead of 25 square miles, the minimum area of a territory, in New Quebec, which may be covered by exploration licences for mineral substances other than petroleum and natural gas.

Bill # 49

Sections 2 and 3 are concordance provisions necessitated by amendments made to the Provincial Income Tax Act by the act 15-16 Elizabeth II, chapter 32, so as to indicate clearly that appeals from decisions of the Minister of Natural Resources on objections to assessments are heard by the Provincial Court before they are heard by the Court of Queen's Bench.

The briefs on the "Diesel Oil Tax" and "Exploration Regulations of the Mining Act", jointly prepared with the O.M.M.A., are now ready for submission to the Government. It is planned to meet with the Minister of Natural Resources and the Minister of Finance during the second week of September and formally present the briefs.

Copies of a well expressed editorial on "Depletion Allowances" released in the Gazette of July 11, 1968, were distributed to all present.

PUBLIC RELATIONS COMMITTEE

The meeting was informed by the Chairman that Editoz was preparing an up-to-date copy of the folder "Facts about the Quebec Asbestos Mining Industry" and also a speech kit.

Mr. I.C. Campbell has been appointed a member of the P.R. Committee of the Mining Association of Canada. The latter Association is presently studying our own P.R. Program preliminary to launching a long term project aimed at improving the image of industry.

The Canadian Trade Commissioner in New Zealand has solicited the participation of the Canadian Asbestos Exporters in the Auckland International Trade Fair to be held in August 1969. It was the general consensus that such participation should rather be left with the asbestos products manufacturing and not the mining firms.

The plans for the Laval Geological Garden are almost completed and the ground work is expected to be terminated for the official opening on September 21st. The General Manager has discussed with both the Manager of "Terre des Hommes" and the Mayor of Montreal the transfer of the asbestos rock and fountain to Laval campus; the move should take place in the early days of September, as determined by the progress of construction.

INSTITUTE OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH COMMITTEE

The Chairman reported that the executive committee had met on July 25 and that no new projects had been approved. Two (2) requests for research funds have been received and are presently under study by the

9.

Scientific Committee; if recommended by the latter and approved by the Executive Committee, funds can be awarded out of the present budget. The Scientific Committee to meet on August 2nd.

The report on the status of the asbestos medical problem has just been completed. This review gives a compilation of present and future research projects under four (4) main headings:

- 1.- Studies dealing with maximum allowable concentrations of asbestos fibres in the environment of man
- 2.- Studies dealing with the determinants and mechanisms of the biological action of asbestos fibre
- 3.- Studies dealing with reducing the concentration and numbers of inhaled asbestos fibres
- 4.- Studies dealing with development and evaluation of methods used in the preceding considerations

Warning on fibre bags - The proposed labelling of a caution on fibre bags would read as follows:

"CAUTION

This bag contains chrysotile asbestos fibre.
Persons exposed to inhalation of this material
should use adequate protective devices as
inhalation of this material over long periods
may be harmful."

Johns-Manville intends to implement this proposal after notifying its customers. It was pointed out that the warning should reach the man who handles the asbestos bags and consequently should be readily visible to the eye.

The Chairman of Executive Committee also briefly discussed the meeting with Dr. Selikoff on May 14th, 1968, a meeting attended by Counsel. This was a get-together of insulators and manufacturers and apparently was sabotaged by the contractors. Nevertheless Johns-Manville decided to re-inaugurate a program with the

insulators' union and possibly may have to face the whole bill of such a venture (\$2,000,000. in five years.) A meeting with the in-

sulation people is scheduled for Monday, August 5th. That is the status of the question at this moment.

DUST ABATEMENT COMMITTEE

The Chairman reviewed briefly the status of current projects.

A) Lake Asbestos of Quebec Limited

Bag Filters - A report on the performance of the four bag compartments was presented. The highlights are:

Excellent efficiencies - 98 to 99%

Outlet grain loadings of 0.026 to
0.005 grains/cu.ft.

Cost per ton dried now below $\frac{1}{2}$ ¢ per
ton.

A fibre glass bag which can resist
temperatures of 500-550 deg.F is
under test. Cost is \$6.00 versus
\$4.00 for conventional cloth.

This experience certainly indicates that a properly maintained cloth collector will do an excellent job.

B) Canadian Johns-Manville Company Limited

The 20,000 c.f.m. unit has been in operation for a week at which time it was shut down for application of an insulating cover to reduce heat losses. The current problems which will be resolved are:

Gases dropping below the dew point.

Temperature control on drier gases to
hold maximum to 260 deg.F. under all
operating conditions.

11.

Although no dust count measurements have as yet been made, visual inspections indicate no dust emission.

Rotoclone Wet Collector-C.J-M Plant 4A - The tests to-date indicate the efficiency to vary considerably depending on variables such as water volume, water application, air volume, etc. The dust discharge is about .04 grains per cubic foot. Although such discharge would be acceptable in most communities, the dust emission is still visible and further tests will be carried out in an effort to further improve the collector's efficiency.

Rotoclone Wet Collector-C.J-M Plant 5A - A rotoclone of a 45,000 c.f.m. capacity has been installed at a cost of \$25,000. at Mill 5A to clean up the gases leaving the Buell type cyclone collectors. Mill 5A has started operations and the unit is being run in. Tests will be reported as soon as available.

Aerodyne Dust Collector - A project has been approved to test a 2,000 c.f.m. unit at a cost of \$9,700. The unit will be installed in August, and will be run both wet and dry. Aerodyne collector originates from the Siemen's Plant in Germany. It is fundamentally a dry dust collector operating on the principle of inducing a centrifugal action on the dust by the injection of secondary air.

Bailey Dust Density Meter - Because the amount of dust emitted from Rotoclone is small, the usual method of sampling the stack by aspirating a dust sample is not always representative. Also, it is difficult to relate the changes in efficiency with the changes in operating conditions of the dryer and the collector.

To overcome these difficulties, a Bailey Dust Meter and Recorder has been purchased by C.J-M. for \$2,300. for experimental purposes. The unit, which operates on the principle of light

absorption by the dust in the measured sample, is scheduled to be delivered early July. It will be installed at Plant 4A. The light sensitive cell in the stack is designed to measure, indicate and record instantly changes in the dust content in the emitted air.

C) Asbestos Corporation Limited

Electrostatic Precipitator - A revised proposal has been tendered to Asbestos Corporation by the manufacturer for a unit to handle 172,000 c.f.m. at 300 degs for the King drying plant. This represents a 20% increase in air handling requirement over original plan. The price has been increased to \$150,000. with a performance guarantee. Anticipated input grain loadings at 0.50 per cu. ft. with stack emission at 0.03.

Asbestos Corporation engineers reported favorably on the examination of a unit in operation at St. Lawrence Cement. It is anticipated that this project will get under way in the third quarter.

Pulseair Collectors - Asbestos Corporation is trying a 1000 c.f.m. unit costing \$1,600. on dust control on a transfer point in E.C. #2 Mill. C.J-M have ordered a 4000 c.f.m. high efficiency unit costing \$10,000. for trial as a fibre recovery collector in addition to its dust control function.

Stabilization of Tailings Piles - A paper presented by I.N.C.O. at the Ontario Industrial Waste Conference at Niagara Falls on June 10, 1968 was reviewed. The INCO experience has no immediate usefulness to our problem since it is concerned with the growing of hay, rye and oats on hydraulically deposited tailings.

At the suggestion of the Chairman of the Uniform Classification and Grading Committee, the problem of surface hardening or crusting by

some chemical or mechanical means has been turned over to the Director of the Sherbrooke Lab. for study.

MISCELLANEOUS

The General Manager gave a brief account of the meeting with Honorable P. Allard Minister of Natural Resources, at which time the brief prepared by Dr. G. Letendre on the proposed Mining Fund was discussed at length with the Minister. The brief, at the request of the Minister, will be supplemented with details of past occurrences of mine closures or merger experienced by certain companies.

The meeting was informed that at the annual meeting of the Q.M.M.A. at the Gray Rocks Inn, offers had again been made to merge both the Q.M.M.A. and Q.A.M.A. together into one Association. However, it was quickly realised that the problems of the two (2) Associations were somewhat different, as well as the budgets required to carry out their programs.

SPECIAL MEETINGS

Consistent with the report submitted by the General Manager on the preferences of the Directors of the Association, it was agreed that future Special Winter Meetings should be held during the third week of March and future Fall Meetings during the first week of October. Accordingly, the General Manager will seek to obtain reservations at the various locations, in the order of preference indicated in the report.

14.

NEW BUSINESS

Contribution to CIM Education Committee - A letter of appeal for financial assistance was received from the General Committee on Education, CIM and tabled at the meeting. The main item on the Committee's budget is the cost of preparing a course on "Computer Control Systems". Following a brief discussion, it was moved that a contribution of \$250.00 be made to this effect.

ADOPTED.

Salary Increases to Office Staff - In line with present trend in wage and salary increases it was moved that an 8% salary increase be granted to Miss Toupin and Miss Côté, effective as of September the first 1966.

CARRIED.

ADJOURNMENT

There being no further business, the meeting was formally adjourned.

Paul A. Filteau,
General Manager
&
Secretary.

5. TECHNICAL COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

TECHNICAL COMMITTEE REPORT

The Technical Committee has met on a regular schedule of every second month since the last Q.A.M.A. Special Meeting.

The major items of interest considered during this period are covered under the headings of the respective Sub-Committees.

Filtration of Asbestos-Cement-Silica Mixes

This Sub-Committee was reconstituted with a revised list of members under Mr. R. Lefebvre of Lake Asbestos. During their first meeting the suggestion of continuing this work and the type of procedure was discussed concluding with the wish to ask assistance from the Department of Energy & Mines in Ottawa.

Product Handling Sub-Committee

This Sub-Committee was created to develop a suitable method of packaging asbestos fibre to make it an acceptable cargo for U.K. ports.

Since the inception, the Sub-Committee has considered many other aspects of Product Handling and the scope of their work has been broadened to include the following subjects:

2.

Unitization and Palletization
Package marking
Package type
Containerization
Bulk shipments.

✓ A.S.T.M. Sub-Committee D-30

The joint test work between all the interested parties in this committee continued to progress satisfactorily with the Technical Committee. Most of the Task Force Groups have concluded.

Fibre Strength Unit Test

The Sub-Committee under the guidance of Mr. W. Callan tabled their report on the Second Round Robin Test.

This report was well prepared but only tabled at the last meeting of the Technical Committee. With this in mind, my remarks will be restricted somewhat, but it can be said that cement quality varies as much as asbestos fibre quality.

Since a further report is in preparation, recommendations will be forthcoming when all the information has been reviewed.

Other Sub-Committees

Work is continuing with satisfactory progress in all the other sub-committees. In fact, we anticipate a tidier agenda in the future.

R. Dodds-Rebron,
Chairman.

6. UNIFORM CLASSIFICATION AND GRADING
COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION
SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1966

UNIFORM CLASSIFICATION & GRADING COMMITTEE REPORT

1. Sherbrooke Laboratory

1.0 Our "so-called" permanent technician hired in June left to go University. He used this method to get a better paying summer job. Mr. Cossette is looking for a replacement.

1.1 Test work is proceeding on the zeiss particle size analyzer (Reference to photographs). Ottawa used Cassier fibre - some Thetford fibres tend to flocculate. It is believed that the addition of chemicals will solve this. Some problems have been encountered in aligning the fibres - Mr. Cossette is working with Ottawa on this.

1.2 The 1966 series of fibre tests on 4, 5 & 6 groups will be issued in October, followed later by 3 & 7 group tests.

1.3 The Director is still working with Sherbrooke University doctors on the studying of the properties of asbestos (Ph. and oil).

2. Random Q.S. Production Sampling

2.0 The seventh report of this 1966 program was issued on September 16. The proposed yearly schedule of 60 plant

2.

visits is nearing completion for 1968.

2.1 A revised procedure, and visit schedule for this Q.S.
Production Sampling was issued on July 15.

W. H. Foster,
Chairman.

7. INDUSTRIAL RELATIONS COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

INDUSTRIAL RELATIONS COMMITTEE REPORT

A regular meeting of the Committee was held at Thetford on September the 10th; Nicolet representative absent.

The dust and noise control engineer's report for July and August was mailed September the 16th. His suggestion on audiogram tests for the Thetford area should be studied. The Beusch and Lomb dust counter is operative and the engineer reports good results. This apparatus will be of great help in obtaining quick survey results.

A review of recent labour contracts was discussed but no problems reported.

Mr. Montgomery of Hall and Henshaw has been directly in charge of safety services and has been making regular visits to the mines. This is very satisfactory and his experience is very helpful. No candidate has been found to date who meets our requirements.

The Treasurer has mailed our 1967 Workmen's Compensation experience to all companies. The average rate for the industry is still reasonable at \$1.85/\$100. We may expect a rise in industrial disease claims this year and consequently higher costs. Our higher labour costs and higher maximum allowable have increased our average Workmen's Compensation Costs.

8. TRAFFIC COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

TRAFFIC COMMITTEE REPORT

The Q.A.M.A. Traffic Committee met on August 28th and 29th, at which time the following items were discussed:

1. N.H. B. Top Wharfage Charges are to be increased 15% at Eastern Canadian ports effective November 13, 1968. A protest was made to the Minister of Transport requesting that the increase be deferred until the opening of navigation in 1969, but it does not seem that anything will be done.
2. Middle Atlantic Truck Rates - Negotiations with respect to the establishment of new truck rates on asbestos to the Eastern United States are still underway, but an increase of some sort seems likely.
3. Inter-American Freight Conference - A meeting was held with the new Canadian Station of the Inter-American Freight Conference who were requesting an increase of 10% effective September 15th, and we were successful in persuading them to defer any increase until the 1st January 1969.
4. Canadian Continental Conference - In view of the extremely poor service currently being provided by the Canadian Continental Conference to Northern European ports, the

2.

Q.A.M.A. called for an emergency meeting with this group to discuss the ability of the Conference to provide adequate service for the balance of the year. At the time of writing, individual members are advising the Conference of the anticipated tonnage required to be shipped for the last four months of the year in order that the Conference may assess their ability to lift these tonnages on a regular basis. In the event that this does not prove to be possible, we have advised the Conference that we will have no alternative but to resign and make our own arrangements for the balance of this year and presumably next year. In private conversation with some of the member lines I was assured that the deterioration in service had been beyond the control of the local representatives and had been occasioned by such factors as the seaway strike and the unstable labour climate at the St. Lawrence River ports. Both of these factors have been corrected and they indicated that with the anticipated tonnage of asbestos to be moved during the last quarter (40,000 tons), they could not foresee any difficulty in persuading their owners to schedule sufficient vessels to move this cargo.

I. C. Campbell,
Chairman.

S. LEGISLATION AND TAXATION COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION
SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB
SEPTEMBER 19-22, 1968

LEGISLATION AND TAXATION COMMITTEE REPORT

On September 11 last, two joint briefs of the Q.M.A. and Q.A.M.A. were presented by the Presidents and several officers of both Associations to Hon. Paul Allard, Minister of Natural Resources in the Quebec Government. The brief on the application of the gasoline tax on Diesel Oil consumed in exploration and mining operations seemed to impress the Minister, who remarked that his department is presently investigating the possibility of submitting legislation granting a partial tax exemption for oil used for such purposes. As to our proposed amendments to the Mining Act concerning exploration rulings, the Minister assured the delegation that our comments would be given serious consideration and that some of the points stressed would possibly be included in the report presently being prepared for governmental approval by the Department of Natural Resources.

The brief on the Diesel Oil Tax will also be discussed with the Minister of Finance, Honorable Paul Dozois, during a meeting at his Montreal Office on September 23.

A favorable ruling has been brought down by the Government on July 10, 1968 concerning the use of Diesel Oil in the manufacturing of explosives as per Order in Council No. 2126, which stipulates that the tax paid on Diesel oil so intended is refundable. The regulation was made retroactive to December 1st, 1966.

Mining companies are also exempted from remitting the tax paid on electricity and gas used directly in the transforming or manu-

facturing of a product as per Order in Council No. 2526. Minimum amount of electricity to be taxed is 10% of the value purchased. The ruling is made effective April 1st, 1968.

On July 5, 1968, the Corporation Tax Act was amended. Bill 37 enacted to on that date increases the tax on the amount of paid-up capital of any company from one-tenth (0.1%) to one-fifth (0.2%) of one percent.

Another recommendation enacted by the Quebec Government on July 10, 1968, deals with the deduction of charitable contributions under the Quebec Corporation Tax Act. According to Order in Council No. 2124, the maximum amount that can be deducted from net revenue is raised from 5% to 10%. The regulation applies to the financial year in progress of every company on the 31st of December, 1967 and to subsequent financial years.

A recent report which might eventually have its repercussions on labour relations in the Province of Quebec is the controversial document brought down by the Rand Commission, which investigated labour-management relations in Ontario. Some of its recommendations will be accepted, but others will be strongly disputed. Important proposals are:

- a) Virtual elimination of ex-parte injunctions;
- b) Restricting of mass picketing;
- c) Making unions legal entities, subject to lawsuits;
- d) Limiting the length of strikes;
- e) Limiting supervisory personnel assigned to maintaining production during a strike;
- f) Denying the right to strike to public workers and settling their disputes by arbitration;
- g) Establishing an industrial tribunal to regulate labour-management disputes.

3.

The report commands serious attention; it is expected that the Ontario Government will accept several of its recommendations. We are informed that the Department of Labour of Quebec is studying the report with the inner anticipation of deriving answers to many labour problems.

Preliminary to the tabling of a government White Paper, Prime Minister Trudeau recently met labor and business leaders to discuss ideas on wage and price stability. Following one such meeting, Mr. Marcel Pepin stated that the C.N.T.U. approved in general the recommendations of the Carter Commission and that the application of these recommendations by the Trudeau Government would be a concrete step toward the establishing of a "just society". This, added Mr. Pepin, also ties in with the fifth annual report of the Economic Council of Canada. In this respect, employers suggest limitations on the growth of government spending, a cut in corporation taxes and the removal of the 3% surtax on personal income introduced this year.

No doubt, price and wage stability as well as serious poverty in Canada will be major topics of discussion at all levels in the coming months. The forthcoming federal budget and the accompanying legislation are expected to be directed toward a balanced expansion of the economy of the country.

Michael J. Messel,
Chairman.

10. PUBLIC RELATIONS COMMITTEE REPORT

On
the



& Off
RECORD

• **"INTERNATIONALISTS" WOO STUDENTS:** A new far, far left student movement is outflanking what were once considered far left leanings among Montreal university students; and is sowing unrest in these ranks. Members comprise an odd group which first appeared three or four months ago, the leaders arriving in town mysteriously and unknown from Vancouver and overseas. They spent the summer holding symposiums on "Castroism: Bourgeois Ideology" and denouncing Fidel, Che, et al. In Vancouver they are reported to have practically destroyed the new left student movement by creating factions and rivalries which left the whole movement disorganized. Student leaders here fear the same will do the same thing in Montreal by constantly outflanking them. Feeling is that if an American agency wanted to disrupt the leftists, it couldn't have come up with a better and more efficient operation.

• **"SPONTANEOUS" DEMONSTRATION PLANNED:** Loyola students reportedly plan a "spontaneous" and "unorchestrated" demonstration on the campus at noon today in support of ousted Student Council President Graham Nevin. He was removed from office by the council's board of directors in July in what has been termed an "executive coup", and was replaced by the appointment of Charles McDougall to that office. The interim president has called a student assembly for Friday to seek a mandate for his tenure of office from the student body at large. The pro-Nevin rumblings which have been heard on the campus are to culminate in the noon-hour demonstration. During his term of office Nevin was active in enlisting support for pressure on Quebec for substantial grants for Loyola. He was the prime organizer of a planned march on Quebec last March to seek funds, called off at the last minute when "several millions" were granted the institution.

• **QUOTABLE QUOTES:** Questions could fly in many directions tonight when Hon. Jean-Jacques Bertrand opens a new career in Hull dedicated to the preservation of the French language. He has undertaken to answer all questions. . . The Mayor Royal Property Owners' Association has prepared a brief criticizing construction of the town's Centennial Library, and has laid it before the council for a reply. . . The specter of satellite mayors over all metropolitan municipalities for past office purposes recalls Mayor Camille Houde's quip: "When they travel they all come from Montreal. When it comes to taxes they live out of town." . . With reported phasing out of the Low Brewery operations in Quebec City, plans are all but definite to enhance operation of the famed and historic "Talon Vaults", in the Faubourg area of the city, as one of its principal tourist attractions.

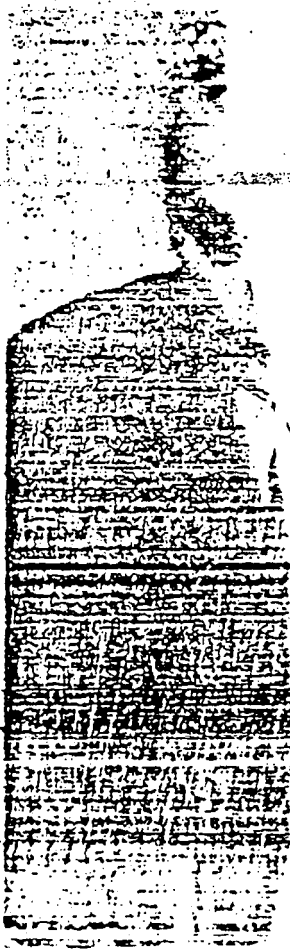
• **PERSON TO PERSON:** Ugo L'Esperance, now Vice St. Michel's police director, a former member of the OPP, has been named as a potential successor to Premier Dutilleul. . . The Ontario government has announced that it will be providing financial assistance to the Quebec government for the construction of a new bridge over the St. Lawrence River. . . The Ontario government has announced that it will be providing financial assistance to the Quebec government for the construction of a new bridge over the St. Lawrence River.

On Fr Dut

OTTAWA — Canadian government right and a duty against attempts French government break up the country. Minister Trudeau said today night in a television interview.

He said there are ways to look at the future French Canada.

"One is to cloister it Quebec and to say this the only place where French Canadians can be at home."



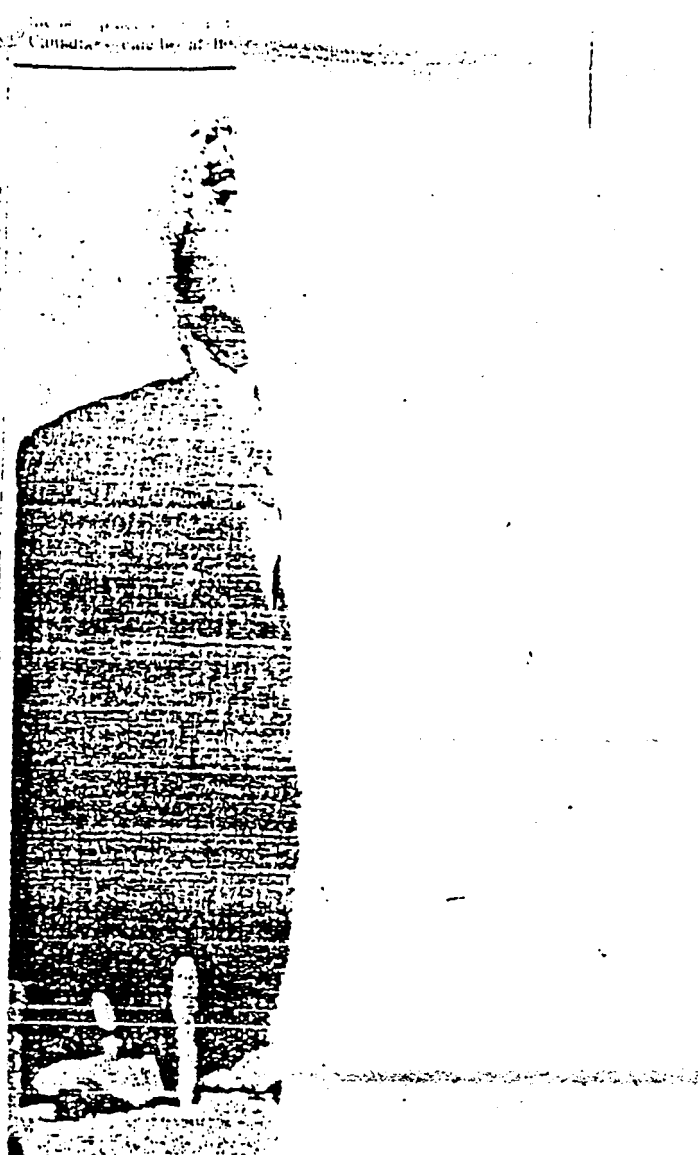
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• **PERSON TO PERSON:** Ubald Legault, now Ville St. Michel's police director; a former member of the QPP homicide squad and a personal bodyguard to Premier Daniel Johnson, reported due to be named director general of the Quebec Provincial Police ... "Champ" Rosen back from three weeks in Israel and Europe, where his baggage caught up with him in Rome 12 days after it strayed en route from Montreal ... Michael J. P. Cuddihy, a Montrealese practicing law in Europe as a representative of the firm of Phillips, Bloomfield, Vineberg and Goodman, appointed special assistant of the vice-president, Canadian Transport Commission ... Doc McCrummison, 45, who rears as head of Yellow Pages advertising here for Bell of Canada tomorrow, plans to fulfil a boyhood dream and ride to work on a fire engine and in a fireman's uniform on his last day ... Mary Cunningham, who leaves tomorrow for Australia via Qantas to report on international women's amateur team golf championships for the CBC, sank her 4 iron tee shot on the 135 yard sixth hole at Val Morin Tuesday for her first ace.

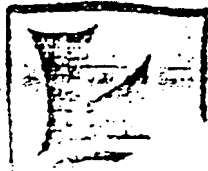
• **SHOW BUSINESS:** Les Paragayes, the Paraguayan troupe brought here by Canadian Concerts & Artists, flew in and on to Toronto early this week for performances preceding those on Saturday and Sunday in Place des Arts ... The Saville Theatre re-opens today after a hiatus of several months following fire damage.

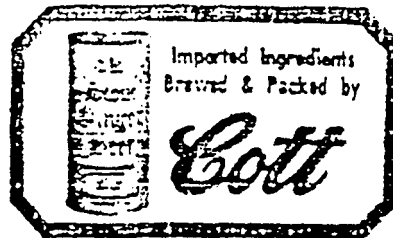


73rd BIRTHDAY: Celebrated his 73rd birthday by his parlance.

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JEAN-NOEL TREMBLAY

Quebec unilingualism forecast by Tremblay

By NICK AUF DER MAUR

Cultural Affairs Minister Jean-Noel Tremblay yesterday asserted that steps must be taken to make French the "working language" of Quebec.

"We must pass legislation as soon as possible," he said, to make French the working language in "political, social, administrative and economic affairs and even in public instruction."

Without committing himself to specifics, Mr. Tremblay noted that "we do not intend to brush off the Anglophone minority... and impose French unilingualism."

The National Union cabinet minister made his remarks in a speech at a reception launching a Montreal branch of his Ministry's Service de la Langue Francaise.

Afterwards, newsmen asked him to elaborate on his remarks, and to state whether they reflect official government policy.

Mr. Tremblay would say only that "announcement of official government measures are made by the competent authority, that is, the Premier (Lacombe)."

In his speech, he said if "the spark of collective initiative" continues to develop, as it has until the present, "we shall soon see great changes in the use of French in Quebec."

Without denying the Anglophone minority its important role, it is important to make

cludes official collective bilingualism, which leads — in a more or less brief time — to unilingualism, the language of the community in an inferior (numerically) position."

However, he added, "recourse to the 'working language' does not exclude individual bilingualism."

"Without the status of working language, French in Quebec is close to death in terms of utility and lack of prestige."

College rejects Liefmann bid in ban appeal

Dr. Robert Liefmann has lost his first appeal against his five-year suspension by the Quebec College of Physicians and Surgeons.

An 11-member College court has denied the controversial arthritis physician's appeal, a spokesman said yesterday.

However, Dr. Liefmann can still appeal to a higher court, and his lawyer has notified the College it will launch an appeal in Superior Court.

Each appeal delays implementation of sentence Dr. Liefmann was originally suspended on April 2.

World

41,359

0,722,914



Group 7 to 8 p.m.

Le folie du docteur Tube
Bois de Penelope (1945), 1.

Phonetic record concert.
is program.

UNESCO film, Petit Monde.

Big Business with Laurel and

1 to 1:30 p.m.

Acting show, Repertoire Lake, 4 to 5

Acting show every hour.

Sheet band, 4, 5 and 6 p.m.

Shows: Free stamp exchange.

Shows at 3 and 4 p.m.

at 1:30, 14:30 and 11:30 p.m.

AYS TO GO

Being ruling

to be a model
of the future
of the future



JEAN-NOEL TREMBLAY

Quebec bilingualism forecast by Tremblay

By NICK AUF DER MAUR

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"We must pass legislation as soon as possible," he said, to make French the working language in "political, social, administrative and economic affairs and even in public instruction."

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Mr. Tremblay would say only that "announcement of official government measures are made by the competent authority, that is, the Premier (Johnson)."

In his speech, he said if "the spirit of collective initiative" continues to develop as it has until the present, "we shall soon see great changes in the position of French in Quebec."

"Without denying the Anglophone minority its acquired rights, it is important to make them understand there is a majority here which will no longer allow the language of the minority to be imposed."

The working language, said Mr. Tremblay, would necessarily be the one adopted by immigrants.

"The working language ex-

cludes official, collective bilingualism, which leads — in a more or less brief time — to unilingualism, the language of the community in an inferior (numerically) position."

However, he added, "no course to the 'working language' does not exclude individual bilingualism."

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However, Dr. Liefmann can still appeal in a lay court and his lawyer has notified the College he will launch an appeal in Superior Court.

Each appeal delays imposition of sentence. Dr. Liefmann was originally suspended on April 30.

The Montreal physician who claims to have an effective arthritis treatment received the five-year penalty for allowing two unauthorized persons to practice medicine in his office.

Dr. Liefmann is also on trial on 16 counts alleging violations of the Food and Drug Act.

World

41,359

0,722,914



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tempo: Free stamp exchange.

atre: Shows at 2 and 4 p.m.

is at 9:30, 10:30 and 11:30 p.m.

DAYS TO GO

Waiting ruling

fol- lead to either a modest
the- splurge or a fortune.

prov- In last Sunday's draw the
last two finalists tried to close
the "green gap" with a signed
agreement splitting the top
prize \$5-25, but decided
against it on the legal advice
of Mayor Drapson.

City Hall accepts the ine-
quity of the award structure
and also wants to offer more

RSITY

Education

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to pursue
PROPERTY
OF PROPERTY

LOU

MERRILL LYNCH

in cooperation with the

SAIDYE BRONFMAN CENTRE

OF THE YW-YWRA & NRS

is pleased to announce

TWO ADDITIONAL COURSES

in the Principles of Investments
to run as follows:

1 FUNDAMENTALS OF INVESTMENT

covering the basics of the subject
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PUBLIC RELATIONS REPORT RAPPORT SUR LES RELATIONS PUBLIQUES

EDITAS

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CONFIDENTIAL/CONFIDENTIEL

Quebec Asbestos Mining Association

September 11, 1968

Quebec Province continues to present a puzzling picture for "foreign-owned" industries whose owners and management are generally English-speaking.

The school controversy in St. Léonard marks but another attempt on the part of a strong nationalist group to create, in the interests of survival, a unilingual province, and political speculation in Quebec City is that an election will be fought on the one-language issue next spring.

Union Nationale ministers, though not necessarily the Prime Minister, are said to be considering stronger action to make French "the official language of government business and industry". Should such proposed action meet with the approval of the electorate it is bound sooner or later to effect some Quebec companies where French largely ceases at junior supervisory level.

Separatist forces are still active, though divided, and those who believe that Mr. Trudeau's election has solved or will ease the French-English problem will be disillusioned.

The greater danger to industry is to be found in the constant possibility that the language issue and the Separatist drive will more and more influence French-speaking labor unions.

-2-

There is thus a continued need for the asbestos industry to continue polishing its Quebec image. To this end, three steps are being taken by your public relations counsel:-

- a) Preparation of a comprehensive new fact booklet is now in production to be made available to all opinion leaders in the Province.
- b) Basic material in English and French for speech kits is being prepared for industry representatives and others who are called on to make speeches about Quebec's industries.
- c) Detailed press kits to keep all Quebec news media supplied with up-to-date background information about the industry, its French-speaking employees, its contributions to the Quebec economy are being prepared for early distribution.

Contact is also being maintained, through the public relations committee, with the medical research group and files are being kept up-to-date so that, when your association deems it advisable, information about these special industry studies may be quickly, widely and accurately disseminated. A portable photographic display of asbestos industry photos is being created by Business and Industrial Photographers Ltd. at no expense to the association. The display will be available as a "photography exhibit" to schools and colleges, museums, department stores, shopping centres and at special functions and events throughout the Province.

11. DUST ABATEMENT COMMITTEE REPORT

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

DUST ABATEMENT COMMITTEE REPORT

Your committee is studying three (3) specific projects.

A. DRYER STACK CONTROL

First may I restate the problem using C.J.M. as an example. In 1960, 48 tons per day were being exhausted from the stacks; by 1967, this has been reduced to 20 tons per day. This was, however, the best performance attainable with conventional high efficiency cyclones.

The current status of experimental measures under test in the industry is:

1. Bag Collectors -

- a) The C.J.M. unit is fully operative, by-passing only 8% of the time with temperature limits set at 1600 F. minimum and 2500 F. maximum. The stack discharge is virtually clear; one test by the Q.A.M.A. dust engineer gave 6 to 9 m.p.p.c.f. vs 300 m.p.p.c.f. for the input gases. The unit has yet to be tested under winter conditions.

One disturbing result has been the need to increase the fuel consumption by about 50% due to the higher temperature and cloth resistance. Studies will continue in order to improve this situation.

- b) Lake Asbestos - The efficiency of the four compartment unit continues excellent at 97 to 98%. The fibre-glass bag is giving excellent performance with standing temperatures up to 5000 F. with a very good life expectancy.

2.

A one-full section installation is planned; this will permit study of the filtration efficiency, mechanical performance and fuel efficiency.

2. Rotoclone -

The 45,000 cfm unit has been operating on the new dryer installation at C.J.M. for two (2) months. All of the initial run-in problems have been solved. A very slight dust emission only is visible included in a very marked plume of water vapor caused by the more than 6 tons per hour of water being expelled.

The Bailey continuously-monitoring dust meter is installed and being calibrated. A second unit is being installed on the inlet gases. If successful, and the unit looks promising, efficiencies will be continuously measured and recorded; results will be reported as soon as available.

3. Electrostatic Precipitator -

The proposal for a 172,000 cfm unit for the King drying plant is being processed. The anticipated total cost is \$214,000. \$150,000. for the unit, the remainder for the associated equipment and installation. A performance guarantee of 95% efficiency at input loading of 0.5 ppcf and an effluent of 0.03 ppcf has been given by the manufacturer.

B. MISCELLANEOUS EQUIPMENT

1. Pulsaire Collector -

The unit has been tested at Asbestos Corporation for control of spot dust conditions. Although successful, some of its advantages were lost in that conventional installation techniques were required for the unit to operate properly, rather than the less expensive direct connection originally planned.

Two more units will be tested on different services to investigate other applications.

3.

2. Aerodyne Collector -

Unit is on order by C.J.M.; nothing further to report.

C. STABILIZATION OF TAILINGS PILES

The Director of the Sherbrooke Laboratory has made a preliminary study in which the problems have been defined. Methods of stabilization of dumps under formation and old dumps have been identified. Amongst these are: vegetation, chemical proteins, chemical binders, organic surface applications and even heat fusion. Feasibility studies as to methods and costs are planned; then will follow control experiments and pilot scale tests.

The Chairman will attend a private industry conference on pollution control in the Mining Industry sponsored by the Mining Association of Canada, in Toronto on October 17th. Although emphasis will be on wastes into water, we have been invited to give a short paper on what our industry has done and is doing concerning waste into the air. Papers will be given by INCO, the Sherman Mine and Noranda.

J.R.M. Hutcheson,
Chairman.

12. ADDENDUM FROM THE GENERAL MANAGER

QUEBEC ASBESTOS MINING ASSOCIATION

SPECIAL SUMMER MEETING - CASTLE HARBOUR GOLF & BEACH CLUB

SEPTEMBER 19-22, 1968

ADDENDUM FROM THE GENERAL MANAGER

PRESENTATION OF BRIEFS ON DIESEL OIL TAX AND EXPLORATION

In submitting these two briefs to the Provincial Government, emphasis was placed on two specific considerations. First, a reduction in the gasoline tax applicable to Diesel Oil would be an incentive to the mining industry to increase exploration expenditure and expand production facilities. The Government would then benefit from a larger number of new and expanded mining operations.

Second, for assessment purposes of exploration work, diamond drilling, it was pointed out, which is the most important if not the "sine qua non" part of any reliable mineral exploration and evaluation, should be credited at actual cost and not calculated in terms of hours of work per foot drilled. Such a method would encourage small and large companies to spend more money on diamond-drilling and bring about more discoveries in a shorter period of time. These arguments were received with considerable interest and favorable comments on the part of the Minister of Natural Resources and his staff. It is our hope that the same sympathetic hearing will be given by Honorable Paul Dozois, Minister of Finance, on September 23.

MINE RESCUE PROGRAM

The proposed order-in-council and regulations concerning the transfer and administration of the Mine Rescue Program by the Department of Natural Resources of the Province have been

2.

finalized in discussions between the Q.A.M.A., the Q.M.N.A. and officers of the Department. As soon as an official resolution of transfer of property, equipment and rights of occupation is drawn up and signed by present holders, the change will take place.

PROVINCIAL MINING ASSOCIATIONS MEETING - September 15, 1968.

The following were the main items discussed at this recent meeting:

- 1.- Review of provincial legislation affecting the mining industry.
- 2.- Possible establishment of a general industrial fund to cover separation pay in case of closure of a plant.
- 3.- Provincial Government incentives to promote mining exploration and new developments.
- 4.- Experience with safety inspections where labour representation is compulsory.
- 5.- Workmen's Compensation Boards and partial disability.
- 6.- Improvement of the industry image through a concerted public relations program.

MINES MINISTERS CONFERENCE

Items of interest on the agenda were:

- 1.- Simplified forms and procedures for the collection of statistical data from industry by Provinces and Dominion Bureau of Statistics.
- 2.- Effects of noise on mine workers' health.
- 3.- Pollution control and mining land reclamation.

5.

ANNUAL MEETING OF PROVINCIAL CHAMBERS OF COMMERCE
IN QUEBEC, SEPTEMBER 19-21, 1968.

The Association is participating in more than one way. First, through the sponsorship of events by the Association and member companies. Second, one of the panelists speaking on the mining industry is Mr. L. Pluze from Lake Asbestos of Quebec Limited. Third, the Q.A.M.A. exhibit is being displayed as well as miscellaneous photographs.

The general program should result in a very successful meeting.

Paul A. Filteau,
General Manager.

13. PRODUCTION STATISTICS

QUEBEC ASBESTOS MINING INDUSTRY

ANNUAL PRODUCTION (SHIPMENTS)

1880-1967

<u>Year</u>	<u>Tonnage</u>	<u>Value (\$)</u>	<u>Year</u>	<u>Tonnage</u>	<u>Value (\$)</u>
1880	380	24,700	1924	225,572	6,618,930
1881	540	35,100	1925	290,387	8,987,459
1882	810	52,650	1926	279,389	10,095,488
1883	955	68,750	1927	274,778	10,621,013
1884	1,141	75,097	1928	273,033	11,238,360
1885	2,440	142,441	1929	306,055	13,172,581
1886	3,458	206,251	1930	242,114	8,390,163
1887	4,619	226,976	1931	164,296	4,812,886
1888	4,404	255,007	1932	122,977	3,039,721
1889	6,113	426,554	1933	158,367	5,211,177
1890	9,860	1,260,240	1934	155,980	4,936,326
1891	9,279	999,878	1935	210,467	7,054,614
1892	6,082	390,462	1936	301,287	9,958,183
1893	6,331	310,156	1937	410,025	14,505,541
1894	7,630	420,825	1938	289,793	12,890,195
1895	8,756	368,175	1939	364,454	15,858,492
1896	12,250	429,856	1940	346,805	15,619,865
1897	30,442	445,368	1941	477,646	21,468,840
1898	23,785	491,197	1942	439,459	22,663,283
1899	25,536	485,849	1943	467,196	23,169,505
1900	29,141	748,431	1944	419,265	20,619,516
1901	40,217	1,259,759	1945	466,894	22,802,511
1902	40,416	1,148,319	1946	558,181	25,240,283
1903	41,677	929,757	1947	661,821	33,005,746
1904	48,465	1,226,352	1948	716,769	42,231,475
1905	68,263	1,503,259	1949	574,906	39,746,072
1906	82,185	2,060,143	1950	864,825	64,361,529
1907	90,426	2,505,042	1951	946,610	77,627,863
1908	90,773	2,573,335	1952	906,223	85,246,098
1909	87,300	2,301,775	1953	884,595	81,000,775
1910	102,215	2,573,603	1954	894,128	79,906,506
1911	127,414	2,943,108	1955	1,022,065	88,607,804
1912	136,301	3,137,279	1956	967,145	90,531,456
1913	161,086	3,849,925	1957	993,424	93,616,875
1914	117,573	2,909,806	1958	873,604	82,028,700
1915	136,842	3,574,985	1959	992,196	95,226,769
1916	154,149	5,228,869	1960	1,054,424	107,788,171
1917	153,771	7,228,233	1961	1,103,545	115,944,729
1918	158,259	8,970,797	1962	1,125,131	114,297,884
1919	159,236	10,575,369	1963	1,158,209	116,582,134
1920	199,573	14,792,201	1964	1,284,873	124,923,453
1921	92,761	4,906,230	1965	1,229,339	122,802,838
1922	163,706	5,552,723	1966	1,340,741	138,570,399
1923	231,476	7,519,906	1967	1,226,566	138,626,649

QUEBEC ASBESTOS MINING INDUSTRY

ANNUAL PRODUCTION (SHIPMENTS)

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1886	3,456	206,251	1930	242,114	8,390,163
1887	4,619	226,976	1931	164,296	4,812,886
1888	4,404	255,007	1932	122,977	3,039,721
1889	6,113	426,554	1933	156,367	5,211,177
1890	9,860	1,260,240	1934	155,980	4,936,326
1891	9,279	999,878	1935	210,467	7,054,614
1892	6,082	390,462	1936	301,287	9,958,183
1893	6,331	310,156	1937	410,025	14,505,541
1894	7,630	420,825	1938	289,793	12,890,195
1895	8,756	368,175	1939	364,454	15,858,492
1896	12,250	429,856	1940	346,805	15,619,865
1897	30,442	445,368	1941	477,846	21,468,840
1898	23,785	491,197	1942	439,459	22,663,283
1899	25,536	485,849	1943	467,196	23,169,505
1900	29,141	748,431	1944	419,265	20,619,516
1901	40,217	1,259,759	1945	466,894	22,802,511
1902	40,416	1,148,319	1946	558,181	25,240,283
1903	41,677	929,757	1947	661,821	33,005,748
1904	48,465	1,226,352	1948	710,709	42,231,475
1905	68,263	1,503,256	1949	574,906	39,746,072
1906	82,185	2,060,143	1950	864,825	64,361,529
1907	90,426	2,505,042	1951	946,610	77,627,863
1908	90,773	2,573,335	1952	906,223	85,248,098
1909	87,300	2,301,775	1953	884,595	81,000,775
1910	102,215	2,573,603	1954	894,128	79,906,506
1911	127,414	2,943,108	1955	1,022,065	88,607,804
1912	136,301	3,137,279	1956	967,145	90,531,456
1913	161,086	3,849,925	1957	993,424	93,616,875
1914	117,573	2,909,806	1958	873,604	82,028,700
1915	136,842	3,574,985	1959	992,196	95,226,769
1916	154,149	5,228,869	1960	1,054,424	107,788,171
1917	153,771	7,228,233	1961	1,103,545	115,944,729
1918	158,259	8,970,797	1962	1,125,131	114,297,684
1919	159,236	10,975,369	1963	1,158,209	116,582,134
1920	199,573	14,792,201	1964	1,284,873	124,923,453
1921	92,761	4,906,230	1965	1,229,339	122,802,838
1922	163,706	5,552,723	1966	1,340,741	138,570,399
1923	221,476	7,515,906	1967	1,286,566	138,828,649