EDITORIAL

This issue contains some changes to your journal. As always, we welcome your comments and suggestions. On the following pages you will find two new columns which we expect to be regular NEWS features, titled FROM THE PRESIDENT and NEWS FROM 12ICA. written by Cameron Sherry and Edgar Shaw. respectively. These should keep us all a little better informed.

We have a new cover layout and on the inside back cover you will find names of the 12ICA committee chairmen as well as the usual list of CAA officials. The 12ICA logo is also included but, unfortunately, not in colour.

In an effort to increase our circulation, we have written to 125 libraries suggesting that they might subscribe to CANADIAN ACOUSTICS. If your institution has a library, please encourage them to subscribe; a little local persuasion always helps.

Alf Warnock has struggled to resurect our mailing list from the backs of envelopes and other such places, and we now have an organized computer-based mailing list. Copies were being sent to people who had not paid and, in many cases, who did not even want to receive CANADIAN ACOUSTICS. Thus, at this time when Annabel Cohen is starting her efforts to increase our membership, our numbers, at least on paper, are shrinking. We need your efforts to increase our membership.

EDITORIAL

Ce numéro contient quelque changements pour mieux vous informer. La couverture a été redessinée pour faire place aux présidents de comité de l'ICA-12 ainsi que la liste habituelle des officiers de l'ACA. L'en-tête de l'ICA-12 y est reproduit mais seulement en blanc et noir. A l'intérieur vous trouverez l'addition des deux rubriques "Nouvelles du président" par Cameron Sherry et "Nouvelles de l'ICA-12" par Edgar Shaw.

Alf Warnock a réorganisé la liste des membres et l'a informatisée. Seu1 les membres en règle ont été retenu et conséquence le nombre de members par réels a diminué. Ceci arrive lorsque Annabel Cohen s'occupe activement d'augmenter les adhésions. Votre appui durant cette période est donc apprécié. A fin d'augmenter notre circulation nous avons écrit à 125 bibliothèques pour les inciter à s'abonner. Nous vous prions d'encourager votre bibliothèque de le faire.

L'organisation du congrès annuel dans la vielle capitale a commencé. On prévoit un programme chargé avec une bonne participation francophone. D'ailleurs J.G. Migneron fait le point dans ce numéro.

<u>To our readers</u> Make our advertisers feel wanted. Tell them you saw their advertisment in

Canadian Acoustics

NEWS FROM THE PRESIDENT

Your editor has suggested that a note be written to you directly telling you what is happening behind the scenes. This will be the first such effort.

The organizers, Jean Nicolas and Jean-Gabriel Migneron, for our Quebec City "84" annual meeting have chosen the week starting 21 October. They are planning a few innovative changes. Look for more information in this issue and following ones.

Annabel Cohen is working very hard on your behalf preparing a program to bring new members into CAA. To aid her in this endeavour, a President's honour list will be prepared and published, identifying all those members who in "84" bring five or more new members to CAA. Let's all help ourselves and may we have a long honour list. Drop a note to Annabel when you have a new member sign on. (A.J. Cohen, Department of Psychology, University of Toronto, Scarborough Campus, 1265 Military Trail, Scarborough, Ontario, M1C 1A4, (416) 284-3329.)

The battle with the building code officials continues but the fruits of our labour will not appear until the 1990 building code at the earliest. Representations will likely be required at meetings in the next few years.

The 12 ICA Congress Committee has issued their first circular and now are active in further plans. Have you started to plan for the paper you will be presenting?

Jean Nicolas indicates that the Edmonton meeting of 1981 made about \$500. A final accounting of the meeting in Toronto and Vancouver will be given in the next issue of the Journal.

A copy of the directory produced by

our Australian acousticians has been received. It appears to be very well laid out. Is there a volunteer or two to help us prepare a directory for members of CAA? Alf Warnock has finally got all of you locked into his computer. This will help us greatly in producing a directory.

Deirdre Benwell says that some of you have not paid your dues. Is that right? Please correct this oversight immediately.

Cameron W. Sherry

NEWS FROM 121CA

When the Executive Committee met in Ottawa at the end of February, we had before us copies of the first circular which is now being sent to acoustical societies and their members around the world including, of course, the members of CAA. The circular is printed in three languages on a very attractive folding sheet provided by the Government of Ontario, and includes a "provisional registration form" placing respondents on the mailing list for the second circular, the call for papers, to be sent out in March 1985. The Secretariat Committee is now preparing a filing system to handle the thousands of names and addresses and other information that will soon be coming in.

Perhaps the most important decision taken at last month's meeting had to do with meeting space. After a full briefing by Aubrey Edwards and Werner Richartz, the Executive Committee accepted a proposal from the Toronto Planning Committee to hold the Congress at the Metro Toronto Convention Centre now under construction on Front Street next to the CN Tower. Judging by the floor plan, it will be a fine building, well adapted to the needs of 12ICA, when it is completed later this year.

On the inside of the back cover, you will find a black and white reproduction of the 12ICA logo designed through the good offices of Bob Johnston, Chairman of the Committee on Support. The back cover also lists the various Committees which are now fully engaged in detailed planning. For example, Tony Embleton expects to have subject coordinators for the Technical Programme appointed by the time these words appear in print.

Edgar Shaw

Chairman, 12ICA Executive Committee

TORONTO REGIONAL CHAPTER NOTES

The first meeting of CAA Toronto chapter for the year 1984 was organized by the University of Toronto, Institute of Aerospace Studies, at their premises on 10 January. The meeting was opened by Prof. G.W. Johnston giving an overview of acoustical research work being carried out at UTIAS. Professor Johnston pointed out that the acoustic research at UTIAS progressed from other aerospace research and therefore concentrated in jet, flow, and other related noise phenomena. Some of the topics under current investigation interaction of acoustics and are: boundary layer, augmentation/interference of jet noise at forward velocities, sound field due to moving sources.

The 25 odd people assembled were then conducted through a tour of the facility. The major features being shown were an anechoic room and an anechoic wind tunnel where a number of the above experiments were being carried out. The meeting was closed with a presentation by Mr. E. Dellapena of an interesting discourse on "Sound From Moving Sources."

A most respectable 29 enthusiasts

braved inclement weather to attend the 13 March 1984 meeting, held in the Ontario Hydro Auditorium. The two convenors, Alberta Behar and Andy McKee, officiated with three speakers giving thoughtful presentations under the general theme of Hearing Research.

Dr. Hans Kunov gave the first presentation on "Indices of Industrial Noise." Various types of industrial noise, their analyses using several indices and correlation coefficients between the indices were discussed. An Ear Simulator model, including hearing protection using real noise input, was discussed with emphasis on the stapes footplate displacement. One conclusion given was that this displacement was best predicted using the non-weighted sound pressure level index rather than dBA.

Dr. Sharon Abel then presented "Industrial Noise as a Masker in Perception." Sharon described experiments involving subjects with normal hearing and noise-induced hearing loss with both impulsive and steady state noise histories. The results of narrow band tone bursts being presented to the subjects with various types of industrial noise backgrounds were then discussed together with statistical results.

The final presentation was by Dr. Ivan Hunter-Duvar on "Cochlear Prostheses." Progress toward both single and multi-channel devices for the totally deaf were discussed and the complexity of such a project was soon appreciated. Engineering problems were discussed and progress by an Australian group was described.

A most successful evening was concluded with as many questions as time permitted.

The final meeting of the 1984/85 season is scheduled for 29 May 1984, when the theme will be "Transportation Noise." DESIGN, INSTALLATION, AND CARE OF SOUND REINFORCEMENT SYSTEMS

Faculty of Extension University of Alberta

This seminar is meant for the designer/installer who already has substantial knowledge and experience in the use of sound reinforcement systems and who wishes to update his technical expertise or fill in the gaps in areas where he may be deficient. It is an opportunity to learn from one of the leading designers of sound systems in It will also be an North America. opportunity to share knowledge with other class members.

It is expected that participants will have either technical or university training and some experience in designing or installing systems.

Dates: Monday through Wednesday, 27 to 29 February 1984, 8:30 a.m. to 5 p.m. (except to noon on 29 February).

Fee: \$290 including two lunches.

Additional Information: Please call 432-5061 or 432-5532.

PROCEEDINGS OF THE 11th ICA/ACTES DU 11ème ICA

Proceedings of the main congress (Paris) and the two satellite symposia (Lyon and Toulouse) are available. The prices are (in French Francs): / Les actes du congrès principal de Paris et les actes des congrès satellites de Lyon et Toulouse sont disponibles aux tarifs suivants (en Francs Français):

Main congress of Paris (8 volumes: 600 FF for the 8 volumes (or 100 F each one) / Congrès de Paris (8 volumes): 600 FF les 8 (ou 100 F l'un). Toulouse symposium (2 volumes): 200 FF both (or 100 F each one) / Symposium de Toulouse (2 volumes): 200 FF les 2 (ou 100 F l'un).

Lyon symposium (1 volume): 100 FF / Symposium de Lyon (1 volume): 100 FF.

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NELSON ACOUSTICS CONFERENCE

Nelson Industries, Inc. will again be sponsoring the Nelson Acoustics Conference to be held in Madison, WI on 17-This Conference will 18 July 1984. feature presentations of the previously announced award winning papers of the 1983 Nelson Acoustical Paper Awards Pro-These include such topics as the gram. analysis of perforated element mufflers, an investigation of the exhaust system of a high performance engine, a study of the exhaust system and source impedance of a multi-cylinder engine, and a model for cavity-backed perforate liners in flow In addition, invited papers and ducts. presentations on a variety of topics related to mufflers, silencers, and general acoustical technology will be included. Attendance is open to the general technical community and a \$100 registration fee is required.

Additional information on the Nelson Acoustics Conference may be obtained from Larry J. Eriksson, Corporate Research Dept., Nelson Industries, Inc., P.O. Box 428, Stoughton, WI 53589, (608) 873-4373.

JASA ANNOUNCES PAUL MERMELSTEIN SUCCEEDS BISHNU ATAL AS ASSOCIATE EDITOR

Dr. Paul Mermelstein of Bell-Northern Research, Quebec, Canada has been appointed Associate Editor of the Journal in charge of Speech Communication papers. He succeeds Dr. Bishnu S. Atal.

Paul Mermelstein was born in Mukacevo, Czechoslovakia, in 1939. He attended school in Budapest, Hungary; Vienna, Austria; and Montreal, Canada. He received his undergraduate education at McGill University, graduating with the B.Eng. degree in Engineering Physics in 1959. He pursued his graduate studies at M.I.T. receiving the D.Sc. in Electrical Engineering in 1974. Paul was a staff member at Bell Laboratories, Murray Hill from 1964 to 1973 carrying out research in speech analysis, synthesis, and recognition. From 1973 to 1977 he was a member of the research staff of Haskins Laboratories conducting research in speech perception and speech recognition. Since 1977 he has been with Bell-Northern Research where he serves as Manager of Speech Communication Research. He also serves as Visiting Professor at INRS-Telecommunications, University of Quebec, and Auxiliary Professor, Electrical University, Engineering, McGill coordinating a cooperative industrialacademic research program in speech communication. Paul's current technical interests include digital speech processing for transmission and storage, automatic speech recognition and synthesis, and human speech He is a member of the communication. Acoustical Society of America, the IEEE Transactions on Acoustics, Speech and Signal Processing Society, and the Groupement des Acousticiens de la Langue Francaise.

RONALD REAGAN'S EARS

The Bulletin of the Australian Acoustical Society quotes noted American hearing expert Aram Glorig as follows:

"People who complain that U.S.

President Ronald Reagan won't listen to good advice could be right - he's partially deaf in both ears.

A visiting ear expert who has examined Mr. Reagan says he has trouble hearing in conference and should wear hearing aids in both ears.

Dr. Aram Glorig said Mr. Reagan was reluctant to wear his hearing aid in public because he was vain.

Mr. Reagan's hearing problem was due to the ageing process, Dr. Glorig said.

He compared the President to a man who drank beer to solve his hearing problem -When they asked the man why he wouldn't stop drinking he said, 'I like what I drink better than what I hear', said Dr. Glorig."

Maybe we should shout a little louder about acid rain?

NEW AMERICAN NATIONAL STANDARDS AVAILABLE

Auxiliary Tables for Vibration Generators - Methods of Describing Equipment Characteristics

S2.58-1983 (ASA Catalog No. 52-1983)

This standard provides a method for specifying the characteristics of eight types of auxiliary tables for vibration generators. It serves as a guide to the prospective user of auxiliary tables to assist him to objectively compare the performance of auxiliary tables available from differing manufacturers. Electrodynamic Test Equipment for Generating Vibration - Methods of Describing Equipment Characteristics

S2.45-1983 (ASA Catalog No. 51-1983)

This standard provides a method for specifying the characteristics of electrodynamic test equipment for generating vibration and serves as a guide to the selection of such equipment. It applies to electrodynamic vibration generators and power amplifiers, both individually and in combination. The standard provides means to assist a prospective user to calculate and compare the performance of equipment provided by two or more manufacturers, even if the vibration generator and the power amplifier are from different manufacturers.

Back Numbers Department American Institute of Physics 335 East 45th Street New York, NY 10017 (516) 349-7800

SYMPOSIUM ON ACOUSTICS OF PROPELLERS TO BE HELD IN CANADA - OCTOBER 1984

international Symposium on An Aerodynamics and Acoustics of Propellers will be held in Toronto, Canada, 1-4 October 1984. The meeting is designed to bring together acousticians, fluid dynamicists, and propeller designers to share their knowledge and the results of their research. A number of topics will be discussed, among them the near field noise problems of propfans whose blade extremities become supersonic, requiring novel means to reduce cabin noise levels in propeller-aircraft. Another topic of interest to acousticians is wind energy devices which have certain commonalities with propellers, particularly in the area of aerodynamic design and acoustic disturbances.

Additional information can be obtained from L.H. Ohman, High Speed Aerodynamics Laboratory, N.R.C., Montreal Road, Ottawa, Ontario K1A OR6, Canada.

CLOSE-RANGE ICE HAZARD DETECTION - SONAR

The Canarctic Shipping Company Limited has undertaken an extensive research program to develop new techniques for navigating in ice. Under the direction of contract #0SV83-00040 with Supply and Services Canada, Canarctic is developing the conceptual requirements of a Shipboard Ice Navigation Support System (SINSS). The objective of SINSS is to develop onboard the vessel a level of ice information and intelligence which will facilitate optimal route selection, and allow for monitoring and refinement of the selected track as the vessel proceeds through the To be totaly effective SINSS must ice. incorporate long-range strategic route planning, medium-range tactical support through the ice, and close-range detection and avoidance.

Satellite and airborne sensors, in conjunction with conventional marine radar sensors, have been successfully employed to meet the strategic and tactical information roles. However, experience during the last two shipping seasons has shown that the detection of ice hazards (i.e., icebergs, bergy bits, multi-year ice pieces) in the Arctic environment using marine radar suffers from poor reliability. Ships operating in the early summer season encounter extensive fog and white-out conditions from blowing snow, which effectively reduces visibility. In late fall low level light conditions or complete darkness may prevail, again limiting Steps are being taken to visibility. study methods for improving observer visibility, yet it is recognized that

more needs to be done to aid the ship's personnel in detection of ice hazards.

Research efforts are being conducted by several groups who, through image processing and enhancement, hope to extract more information from marine radar displays. It is Canarctic's contention that similar efforts should be directed towards proving the feasibility of internally-mounted forward scanning It is envisaged that a sonar sonars. could be used to detect much larger masses of ice protruding below the water surface, thus increasing the reliability of ice hazard detection. Canarctic would like to hear from individuals, companies or universities with a demonstrated expertise in sonar and the proven ability follow through the design and to implementation of systems in a marine environment.

Interested parties are asked to respond to the address below:

Executive Vice-President Canarctic Shipping Company Limited Place de Ville, Tower 'A' 19th Floor Ottawa, Ontario KIA ON7

THE INTER-NOISE 83 PROCEEDINGS AVAILABLE

INTER-NOISE 83, the Twelfth International Conference on Noise Control Engineering, was held in Edinburgh, Scotland on 13-15 July 1983.

A total of 294 papers on all aspects of noise control engineering were presented at the Conference and are included in the Conference Proceedings which contain 1242 pages.

Copies of the INTER-NOISE 83 Proceedings are available from Noise Control Foundation, P.O. Box 3469, Arlington Branch, Poughkeepsie; NY, 12603, U.S.A. The price is \$72; shipped postpaid except that overseas orders must add \$25 if the books are to be shipped by air mail.

CALENDAR 1984

2-6 April International Conference on Video and Data Recording University of Southampton, U.K.

10-12 April Institute of Acoustics Spring Conference Swansea, U.K.

7-11 May Acoustical Society of America Norfolk, Virginia, U.S.A. (Deadline for abstracts 20 January 1984)

28 May - 1 June International Association Against Noise Conference Sarajevo, Yugoslavia

25-28 July Tenth International Symposium on Nonlinear Acoustics Kobe, Japan

5-10 August 7th World Congress on Linguistics Brussels, Belgium

21-24 August Fourth FASE Congress Sandefjord, Norway

26-30 August 17th International Congress of Audiology (ICA) University of California Campus Santa Barbara, CA, U.S.A. 1-4 October Aerodynamics and Acoustics of Propellers Toronto

8-12 October Acoustical Society of America Minneapolis, MN, U.S.A. (Deadline for abstracts 22 June 1984)

22-26 October CAA Annual Meeting and Seminars Quebec City, Quebec

4-6 November Institute of Acoustics Autumn Conference Windemere, U.K.

3-5 December INTER-NOISE 84 Honolulu, Hawaii, U.S.A. (Deadline for abstracts 15 March 1984)

9-13 December ASME Symposium on Flow-Induced Vibration New Orleans, U.S.A.

NEW RESEARCH CONTRACTS

To G. Crawford, Victoria, B.C., \$2,500, for "Literature review of theoretical and experimental work on acoustic scattering from turbulence, micro-structure and biological targets in the Pacific Ocean." Awarded by the Department of Fisheries and Oceans.

To G. Crawford, Victoria, B.C., \$2,000, for "Study to develop the relationship between sound scattering temperature and velocity." Awarded by the Department of Fisheries and Oceans.

To Industrial Research Institute of the University of Windsor, Windsor, Ontario, \$21,000, for "Development of objective tests for diagnosing the vibration syndrome in chain saw operators." Awarded by the Department of the Environment. To Forest Engineering Research Institute of Canada, Pointe Claire, Quebec, \$40,000, for "Conduct research on the noise and vibration of chain saws." Awarded by the Department of the Environment.

To Foundation Electronic Instruments Incorporated, Ottawa, Ontario, \$20,545, for "Design and development of a digital seismic outstation." Awarded by the Department of Energy, Mines and Resources.

To Control Data Canada Limited, Ottawa, Ontario, \$147,240, for "Continued investigation of advanced extremely low frequency noise cancellation techniques." Awarded by the Department of National Defence.

To Seakem Oceanography Limited, Sidney, B.C., \$404,000, for "Development, construction and testing of correlation sonar current meter shipboard and ocean bottom mounted prototype systems - Phase III and Phase IV." Awarded by the Department of Fisheries and Oceans.

To Northern Environmental Research, Winnipeg, Manitoba, \$38,376, for "Application of sonar and detection of marine mammal vocalization to the estimation of Arctic marine mammal populations and their distribution." Awarded by the Department of Fisheries and Oceans.

To Arctic Sciences Limited, Sidney, B.C., \$30,000, for "Design study for a seabottom - moored acoustic wind velocity system." Awarded by the Department of Fisheries and Oceans.

To Sonoquest/Advanced Ultrasonics Research, Sudbury, Massachusetts, \$48,024, for "Investigation of underwater acoustics propagation phenomena using seismic-acoustic ultrasonic modelling." Awarded by the Department of National Defence. To Inverse Theory and Applications Inc., Vancouver, B.C., \$19,734, for "Analysis of deep ocean marine seismograms by inversion techniques." Awarded by the Department of National Defence.

To ComDev Limited, Cambridge, Ontario, \$89,952, for "Development of design and fabrication procedures and processes for surface acoustic wave band pass filters with minimum group delay ripple." Awarded by the Department of Communications.

To ComDev Limited, Cambridge, Ontario, \$75,000, for "Study of reflective and dot array surface acoustic wave devices." Awarded by the Department of Communications.

To ComDev Limited, Cambridge, Ontario, \$198,860, for "Development of spacecraft signal processing surface acoustic wave devices." Awarded by the Department of Communications.

To Memorial University of Newfoundland, St. John's, Newfoundland, \$5,540, for "Sound scattering and attenuation in aqueous suspensions of sand." Awarded by the National Research Council.

To Centre de Recherche Industrielle du Québec, Ste. Foy, Quebec, \$18,064, for "Solubilization of lignocellulosic residues through the effect of cavitation of ultrasonic waves." Awarded by the National Research Council.

To McMaster University, Hamilton, Ontario, \$32,153, for "Median filter data normalization of two-dimensional acoustic data displays - final phase." Awarded by the Department of National Defence.

To Canadian Instrumentation and Research Limited, Mississauga, Ontario, \$7,802, for "Improve performance of an experimental hydrophone." Awarded by the Department of National Defence.

POSITION WANTED

A B.A.Sc. graduate in Electrical Engineering (University of Toronto) currently studying for an M.Sc. in sound and vibration (ISVR, University of Southampton) is seeking a position to exploit a keen interest in building acoustics.

Experienced in most forms of acoustics and vibration work and related consultative services. Work in building acoustics would be preferable although other disciplines could be considered if management possibilities were apparent. Available for employment upon return to Canada in early October 1984.

For further information please contact:

Mr. John P.M. O'Keefe c/o The Martin Centre for Architectural and Urban Studies University of Cambridge Department of Architecture 6 Chaucer Road Cambridge CB2 2EB United Kingdom

POSITION WANTED

Howard Patlik is seeking a full-time position in the field of acoustics. He will graduate as an acoustics engineering technician from George Brown College of Applied Arts and Technology in June 1984. He has completed two years at York University in the Psychology Degree Program (10.5 credits). He has recently been employed by the Ministry of the Environment on various projects including a construction site noise and small hand gun study. Employers may contact him at:

Howard Patlik 491 Winnett Avenue Toronto, Ontario M6C 3M6 Canada Tel: (416) 787-2262

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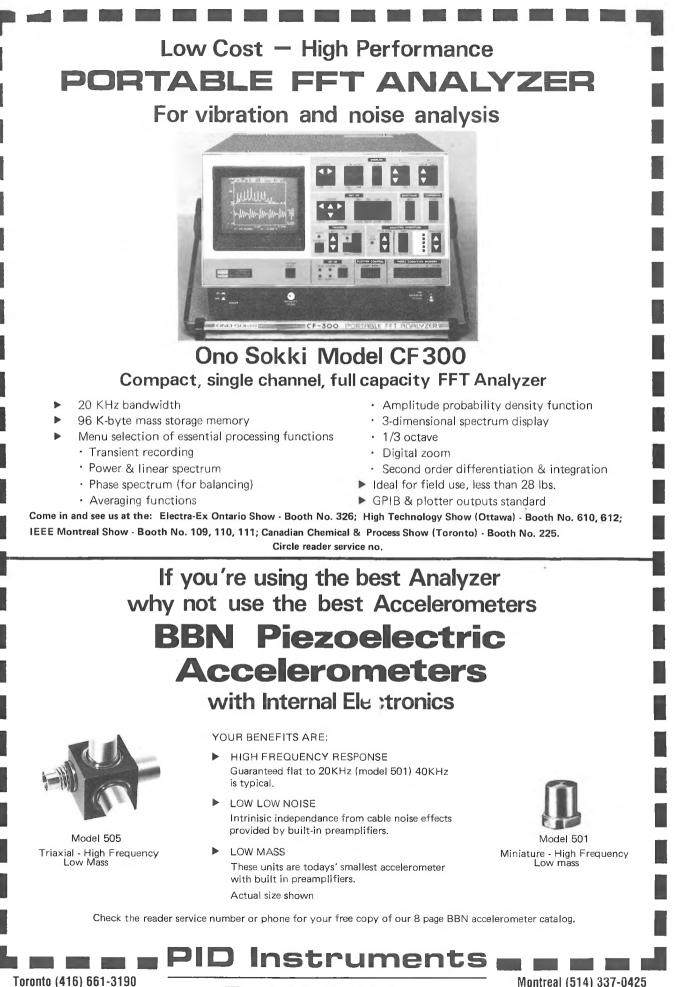
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1984 NOISE CONTROL SEMINAR



SÉMINAIRE SUR LE CONTRÔLE DE BRUIT 1984

Sponsored by the Technical Section Canadian Pulp and Paper Association

September 10 - 12, 1984 Hotel Vancouver, Vancouver, B.C. Parrainé par la Section technique Association canadienne des producteurs de pâtes et papiers

10 - 12 septembre 1984 Hôtel Vancouver, Vancouver, C.B.

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D.P.W. Pounds Paprican Pointe Claire, Qué.

THEME 'NOISE CONTROL AND THE PULP AND PAPER INDUSTRY' THEME 'LE CONTRÔLE ACOUSTIQUE ET L'INDUSTRIE DES PÂTES ET PAPIERS'

TENTATIVE PROGRAM / PROGRAMME PRELIMINAIRE

Monday, Sept. 10 0900 lundi 10 sept.

Keynote Address: To Be Announced

SESSION I: Principles of Naise and its Control/ Les principes du bruit et son contrôle

Chairman/ D.P.W. POUNDS, Paprican, Président: Pointe Claire, Qué.

- 1. Noise Control Theory, D.L. ALLEN, Vibron Ltd., Mississauga, Ont.
- Effects of Noise on People, and Hearing Conservation, <u>R.P. GANNON</u>, Worker's Compensation Board of British Columbia, Richmond, B.C.
- Modern Noise Source Identification Techniques, J. NICOLAS and G. LEMIRE, Université de Sherbrooke, Sherbrooke, Qué.

Monday, Sept. 10

ept. 10 1030 lundi 10 sept.

SESSION II: Government Involvement in Noise Control/ L'implication des gouvernements dans le contrôle acoustique

Chairman/ W.B. HARDWICK, Tahsis Co. Ltd., Président: Gold River, B.C.

- Government Standards and Regulations and their Enforcement, <u>C. SHERRY</u>, Domtar Inc. Senneville, Qué.
- Progress Report of CSA Standards on Noise Exposure Monitoring, <u>T. KELSALL</u>, Hatch Associates Itd., Toronto, Ont.

Monday, Sept. 10 1400 lundi 10 sept.

SESSION III:

Research and Techniques into Understanding Monitoring, and Controlling Noise/ Recherches et techniques portant sur la compréhension des modes de surveillance et de contrôle du bruit

- Chairman/ <u>R. CARRIERE</u>, Abitibi-Price Inc., Président: Jonquière, Qué.
- Modern Noise Source Identification Techniques, J. NICOLAS, Université de Sherbrooke, Sherbrooke, Qué.
- Acoustical Materials, J. KANE, Higgot-Kane Industrial Noise Control Ltd., Scarborough, Ont.
- Instrumentation in Noise Control, <u>T. HO</u>, Bruel & Kjaer Canada Ltd., Richmond, B.C.
- Paper Machine Source Noise Control Techniques, <u>J. CROUSE</u>, Beloit Corp., Beloit, WI.
- 5. Effects of Noise on the Hearing, and Different Kinds of Hearing Protectors, <u>H. LOFGREEN</u>, Bilsom International Ltd., Toronto, Ont.

Tuesday, Sept. 11 0900 mardi 11 sept.

SESSION IV: Techniques Used to Control Noise/ Techniques employées dans le contrôle acoustique

Chairman/ H. REITHAUG, MacMillan Bloedel Ltd., Président: Port Alberni, B.C.

 Equipment Acoustics, D.J. WHICKER, Barron & Associates, Acoustical Consultants Ltd., Vancouver, B.C.

SESSION IV (Cont'd)

- Vibration Isolators and Their Principles, <u>D.L. ALLEN</u>, Vibron Ltd., Mississauga, Ont.
- Enclosures, J. KANE, Higgot-Kane Industrial Noise Control Ltd., Scarborough, Ont.
- Noise Control of Control Valves and Regulators, <u>J. NILES</u>, Leslie Co., Parsippany, NJ, U.S.A.
- Noise Source Diagnostic Techniques, G. RASMUSSEN, Bruel & Kjaer Canada Ltd., Toronto, Ont.

Tuesday, Sept. 11 1400 mardi 11 sept.

SESSION V: The Noise Abatement Program/ Le programme d'atténuation du bruit

Chairman/ Président:

 Noise Control Program For Your Mill (Why, How, Cost, Benefits), <u>D.P.W. POUNDS</u>, Paprican, Pointe Claire, <u>Qué</u>.

To be announced

- 2. The Consultants Role in Noise Control, D.J. WHICKER, Barron & Associates, Acoustical Consultants Ltd., Vancouver, B.C.
- Planning For Noise Control in the Paper Machine Room, <u>J. CROUSE</u>, Belait Corp., Belait, WI, U.S.A.
- Noise Compliance Plans, <u>S.H. EATON</u>, Worker's Compensation Board of British Columbia, Richmond, B.C.

Tuesday, Sept. 11 1530 mardi 11 sept.

SESSION VI: Equipment Noise Control and Case Histories Equipement de contrôle acoustique et exemples typiques

Chairman/ <u>E. PELLETIER</u>, Fraser Inc., Président: Edmundston, N.B.

- Noise Control of Pneumatic Vibrators as Used in the Pulp and Paper Industry For Chip Car Unloading, <u>A. G. DUBLE</u>, Acoustical Consultant, Newberg, OR, U.S.A.
- Noise Control of Cyclones as Related to Paperboard and Cardboard, <u>L. KENDE</u>, Ministry of the Environment, Toronto, Ont.

Wednesday, Sept. 12 0900 mercredi 12 sept.

SESSION VII: Case Histories of Noise Abatement Solutions/ Exemples typiques de solutions relatives à l'atténuation du bruit

Chairman/ <u>G. WAZNY</u>, Manitoba Forest Resources Président: <u>Ltd.</u>, The Pas, Man.

- Noise Control of a Vacuum Pump, <u>H. REITHAUG</u>, MacMillan Bloedel Ltd., Port Alberni, B.C.
- Noise Control Solution of a Bale Press, D. JARDINE, St. Anne-Nackawic Pulp & Paper Co., Nackawic, N.B.

- Saw Mill and Wood Room Noise, <u>J. KANE</u>, Higgot-Kane Industrial Noise Control Ltd., Scarborough, Ont.
- Noise Control of a Displacement Blower, <u>H. REITHAUG</u>, MacMillan Bloedel Ltd., Port Alberni, B.C.
- 5. Vacuum Pump Noise Abatement, <u>H. REITHAUG</u>, MacMillan Bloedel Ltd., Port Alberni, B.C.
- Noise Abatement Program at the Alma Mill, J. MOREL and P. DECOSTE, Abitibi-Price Inc., Québec, Qué.
- Noise Problems of Chain Saws, <u>D. MYLES</u>, Canadian Forestry Service of Environment Canada, Hull, Qué.
- Saw Mills & Planer Mills Noise Abatement, S.II. EATON, Worker's Compensation Board of British Columbia, Richmond, B.C.
- Noise Emanation from Conical Refiners and Disc Refiners, <u>G.W. PETTERSEN</u>, Norwegian Pulp and Paper Research Institute, Oslo, Norway
- Systems for Noise Control at the Norwegian Pulp and Paper Research Institute, Measurements and Analyses, Examples from Project Work, P. LANDMARK, Norwegian Pulp and Paper Research Institute, Oslo, Norway

Wednesday, Sept. 12 1400 mercredi 12 sept.

SESSION VIII Problem Solving Workshop/ Atelier portant sur les solutions à apporter aux problèmes

Chairman/	D.	DMYT	CROW,	E.B.	Eddy	Forest
Président	Pro	ducts	Ltd.,	Hull,	Qué.	

TABLE	TOPIC/ SUJETS DE DISCUSSION	MODERATOR/ MODERATEUR
1	Enclosures, Silencers	J. KANE, Higgot-Kane Industrial Noise Control Ltd., Scarborough, Ont.
2	Paper Machine Noise Control	J. CROUSE, Beloit Corp., Beloit, WI, U.S.A.
3	Measuring, Monitoring & Diagnosis of Noise	R. PEMBERION, Bruel & Kjaer Canada Ltd., Ottawa, Ont.
4	Equipment Noise Abatement	D.J. WHICKER, Acoustical Consultants Ltd., Vancouver, B.C.
5	Noise Abatement in Valves and Pipelines	J. NILES, Leslie Co., Parsippany, NJ, U.S.A.

Government Standards & Regulations

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SHERRY, Domtar Inc.

Senneville, Qué.

Further information and registration forms may be obtained from:

W. Robert Wood Assistant Manager, Technical Section, Canadian Pulp and Paper Association Sun Life Building, 23rd Floor ll55 Metcalfe St. Montreal, Quebec H3B 2X9 Pour de plus amples informations et des formules d'inscription, s'adresser à:

M. W. Robert Wood Directeur adjoint, Section technique Association canadienne des producteurs de pâtes et papiers Immeuble Sun Life, 23e Étage 1155 rue Metcalfe Montréal, Québec U3B 2X9

6

SEMAINE CANADIENNE D'ACOUSTIQUE

La Semaine Canadienne d'Acoustique se tiendra cette année à Québec du 22 au 26 octobre 1984

Les journées des **22 et 23 octobre** sont d'ores et déja réservées pour **deux sémimaires** qui auront lieu a l'Université Laval:

- Séminaire 1 (en français) consacré a l'acoustique en général et au contrôle du bruit.
- Séminaire **2** (en anglais) consacré à **l'intensimétrie et ses applications.**

Le symposium et toutes les autres activités prévues pour les 24, 25 et 26 octobre se tiendront au **Château Frontenac** soit au coeur de la Vieille Capitale. Toute l'information nécessaire sera envoyée sous peu aux membres de l'Association et publiée dans le prochain numéro de la revue.

APPEL POUR LES CONFERENCES

Tous les conférenciers intéressés sont priés de faire parvenir **avamt le 31 mai 1984 um résumé de moims de 200 mots** en indiquant le theme choisi. Tentativement, les themes retenus pour les conférences sont les suivants:

- techniques d'identification des sources de bruit,
- réduction du bruit à la source,
- bruit urbain et environnemental,
- écrans et enceintes antibruit,
 acoustique prévisionnelle des locaux industriels, acoustique architecturale,
 bruit et vibration,
 analyse de la parole,
 métrologie acoustique,
 ultrasons et hydroacoustique,
 physio et psycho-acoustique,
 divers.

Néanmoins, le comité organisateur se réserve la possibilité de reclasser les communications suivant les réponses obtenues.

Il est prévu de rassembler, sous forme d'un cahier à l'usage de tous les participants du Symposium une information plus détaillée sur les conférences. Aussi les conférenciers devront prévoir, pour le 7 septembre 1984, remettre un article sommaire de 2 pages relatif a leurs exposes. Chaque conférencier participant recevra l'information nécessaire au cours de l'été.

Pour tout renseignement complémentaire, prière de contacter:

- Jean-Gabriel Migneron (organisation) CRAD, 16e étage, Pav. F.-A. Savard Université Laval Québec, P.Q. GIK 7P4
- Jean Nicolas (conférences) Département de Génie mécanique Faculté des sciences appliquées Université de Sherbrooke Sherbrooke, P.Q. JIK 2R1

ACOUSTICS WEEK IN CANADA

Acoustics Week in Canada will be held this year ir Quebec City from October 22 to October 26.

October 22 and 23 will be devoted to two seminars which will take place at Laval University:

- Seminar 1 (in French) entitled General Acoustics and Noise Control,
- Seminar 2 (in English) entitled Intensity Measurement and its Applications.

The symposium and other activities scheduled for October 24-26 will be held at the **Chateau** Frontenac in the heart of Old Quebec. All pertinent information will be sent to Association members shortly and published in the next issue.

CALL FOR PAPERS

Those interested in presenting papers are requested to forward a summary of 200 words or less before May 31, 1984 with an indication of the selected topic. The list of possible topics has been tentatively proposed as follows:

- noise-source identification techniques,
 quieting the noise source,
 urban and environmental noise,

- barriers, screens and shielding,
 in-plant noise control and models,
 architectural acoustics and building noise control.
- noise emission and vibration,
 speech analysis,
- acoustical measurement techniques.
- ultrasonics and underwater acoustics,
- hearing conservation and psychoacoustics,
- miscellaneous

The organizing committee reserves the right, however, to reclassify papers according to the number of replies received.

For the future reference of symposium participants, more detailed summaries of each paper will be published in cahier form. Participants should therefore submit a brief 2-nage article summarizing their paper by September 7, 1984. Hose participating in the symposium will receive further information during the summer summer.

For further details please contact:

Jean-Gabriel Migneron (organization) CRAD, 16e étage, Pav. F.-A. Savard Université Laval Québec, P.Q. G1K 7P4

- Jean Nicolas (papers) Département de Génie mécanique Faculté des sciences appliquées Université de Sherbrooke Sherbrooke, P.Q. J1K 2R1