

EDITORIAL

A reminder to our readers that the Canadian Acoustical Association Annual Symposium will be held this year at the Chateau Lacombe Hotel in Edmonton, Alberta, on October 8 and 9. This Symposium provides an excellent opportunity to meet individuals concerned with acoustics and related fields from across Canada and elsewhere, enabling useful discussions of mutual concerns and current noise problems. Immediately preceding the Symposium, on October 5, 6 and 7, two three-day courses on noise control are being planned, one for environmental noise and one for machinery noise. Detailed information on these meetings can be found on page 4 of this issue. Looking forward to seeing you there!

EDITORIAL

Nous voudrions rappeler à nos lecteurs que le Symposium Annuel de l'Association Canadienne de l'Acoustique aura lieu cette année du 8 au 9 octobre au Château Lacombe à Edmonton, en Alberta. Ce symposium offre une excellente occasion de rencontrer des personnes, venant du Canada et d'autres pays, intéressées à l'acoustique et à des domaines associés. Ces rencontres pourraient donner lieu aux discussions d'intérêt mutuel et aux échanges d'informations. Avant le symposium, du 5 au 7 octobre, deux cours parallèles seront offerts au sujet de la lutte antibruit, un sur le bruit de l'environnement, et l'autre sur le bruit de machines. Pour plus de renseignements sur ces deux cours, voir page 4. A bientôt à Edmonton!

Nota: nous nous excusons des fautes de frapper dans l'éditorial du dernier numéro.

CSA ACOUSTICS AND NOISE CONTROL COMMITTEE ANNUAL MEETING

The Annual Meeting of the Canadian
Standards Association Technical

Committee Z107 on Acoustics and Noise Control will be held on Wednesday, October 7, 1981 at 9:00 a.m. in the Chateau Lacombe Hotel, Edmonton, in conjunction with the CAA Annual Meeting. It is expected that several subcommittees will meet on October 5 or 6, also in the same hotel.

INDEXING

We are pleased to report that "Acoustics and Noise Control in Canada", is now indexed in the following publications: - Acoustics Abstracts (UK ISSN 0001-4974), Noise and Vibration Bulletin (UK ISSN 0029-0947), Noise Pollution Publications Abstracts, Union List of Scientific Serials in Canadian Libraries (ULSSCL), and Ulrichs International Periodicals Directory.

If readers are aware of other publications in which "Acoustics and Noise Control in Canada", could usefully be indexed, please write with details to the Editor-in-Chief.

NEW RESEARCH CONTRACTS

To University of Sherbrooke, Sherbrooke, Que., \$202,556 for "Development and construction of an acoustic microscope prototype". Awarded by National Research Council.

To Roy Ball Ass. Ltd., Ottawa, Ont., \$99,978 for "Software development system - bottom echo recorder". Awarded by the Department of Energy, Mines and Resources.

To Biokinetics and Associates Ltd., Ottawa, Ont., \$10,000 for "Design and development of a bomb disposal unit helmet". Awarded by the Royal Canadian Mounted Police.

To Canadian Instrumentation and Research Ltd., Mississauga, Ont., \$31,348 for "Design, fabrication and testing of portable bulk acousto-optic radar receiver". Awarded by the Department of National Defence.

To Arctec Canada Ltd., Kanata, Ont., \$208,000 for "Installation of instruments for ice-induced vibration measurements aboard the United States Coast Guard Carrier 'Polar Sea' and the development of a model for the ice breaking excitation forces". Awarded by the Department of Transport.

To Supratec Inc., Trois Rivières, West Que. \$117,611 for "Development and fabrication of a laboratory prototype of an ultrasonic holographic motion picture camera". Awarded by the National Research Council.

To Human Computing Resources Corporation, Toronto, Ont., \$79,565, for "Development of an audio-signal composition system". Awarded by the Department of National Defence.

To Dr. C.A. Ward, Dept. of Mechanical Engineering, University of Toronto, Toronto, Ont., \$67,375 for "Study of the mechanisms involved in inner ear damage resulting from rapid decompression". Awarded by the Department of National Defence.

To Canadian Instrumentation and Research Ltd., Mississauga, Ont., \$81,853 for "Development of an experimental fibre optic hydrophone". Awarded by the Department of National Defence.

To Vemco, Armdale, N.S., \$2,945 for "Development of miniature ultrasonic transmitters for fish tracking". Awarded by the Department of Fisheries and Oceans.

NEWS

ONTARIO MINISTRY OF LABOUR MEETING

The Ontario Ministry of Labour is holding a series of meetings on proposed changes to the Occupational Health and Safety Act, 1978. The meeting on the proposed noise regulation under this Act is scheduled for June 23, 1981. The Ministry has invited all those who

submitted comments to attend the Ministry presentation of its analysis of submissions and proposed amendments, and to give their comments.

ASTM E-33 MEETING REPORT

The intention to withdraw ASTM Test Method C 643-76 for "Change in Acoustical Absorption of Ceiling Materials due to Repainting" was announced at the meetings of American Society for Testing and Materials (ASTM) Committee E-33 on Environmental Acoustics at the El Tropicano Hotel in San Antonio, Texas, April 20-22.

The Committee voted to withdraw Test Method C 643 because a survey of independent and industrial laboratories indicated that it is not used and there is no interest in retaining it.

According to ASTM regulations a withdrawn standard will be published for one additional year in the ASTM Book of Standards along with a note that it has been withdrawn. Thereafter, the title, scope, and date of withdrawal will be published for an additional five years.

Committee E-33 also announced the adoption of Standard Practices E 795-81 for "Mounting Test Specimens During Sound Absorption Tests" by the ASTM Committee on Standards. These practices redefine the mountings established by the Acoustical Materials Association (AMA), which no longer exists.

Tentative Practice E 597-77T for "Determining a Single-number Rating of Airborne Sound Isolation for use in Multiunit Building Specifications" will be sent to ASTM Society Letter Ballot for advancement to a full standard with minor revisions. E 597 is recommended for use in multifamily dwellings, single and double patients' rooms in hospitals, motel or hotel rooms, and small offices.

Three new task groups, on Spatial and Temporal Measurement of Masking

Noise, Insertion Loss of Noise Control Panels, and Field Measurement of Impact Sound Transmission, were formed during the meetings.

The Task Group on Spatial and Temporal Measurement of Masking Noise will develop a standard method to measure masking noise in open plan offices in order to determine whether it satisfies specifications.

The Task Group on Insertion Loss of Noise Control Panels will determine how to measure the added sound insulation provided when noise control panels are applied to heavy steel housings and ductwork in power plants and similar installations.

The Task Group on Field Measurement of Impact Sound Transmission will develop a standard field test to measure the impact sound transmission of floor-ceiling systems installed in existing buildings.

A list of all Committee E-33 Task Groups and their activities can be obtained from J.A. Thomas, ASTM, 1916 Race Street, Philadelphia, Pennsylvania 19103, U.S.A., Telephone: 215/229-5498.

The next meeting of Committee E-33 will be in Dearborn, Michigan, October 19-21, 1981. Visitors are welcome and can obtain further information about the meeting from Mr. Thomas.

SHORT COURSES IN ACOUSTICS AND VIBRATION

"12th Annual Industrial Product Noise Control", Union College, Graduate Studies and Continuing Education, Wells House, 1 Union Avenue, Schenectady, N.Y. 12308, U.S.A. Tel: (518) 370-6288.

"Machinery Vibration V Seminar", 3-5 November 1981, Sheraton Naperville, Naperville, Illinois, and "Balancing of

Rotating Machinery Seminar", The Shamrock Hilton, Houston, Texas. Contact: The Vibration Institute, 101 W. 55th Street, Clarendon Hill, IL, 60514, U.S.A., Tel: (312) 654-2254.

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ACOUSTICS WEEK IN EDMONTON

The 1981 Annual Meeting and Symposium of the Canadian Acoustical Association will be part of an "Acoustics Week in Edmonton". The week will commence with two seminars, "Controlling Transportation Noise" and "Machinery Noise" run in parallel from October 5 - 7. The Canadian Standards Association, Noise and Vibration Committee, will hold their annual meeting on October 7. Finally the C.A.A. Symposium on October 8 - 9 will complete the week. Hotel convention rates are in effect for all events.

A guided bus tour of the Jasper-Banff area in the Rocky Mountains is scheduled for the long weekend following Acoustics Week. C.A.A. members are encouraged to bring their spouses and take part in this unique opportunity.

"CONTROLLING TRANSPORTATION NOISE"

This 3 day course, from October 5 - 7 will feature key-note speakers from across Canada and elsewhere discussing the many aspects of controlling noise from road and rail sources. Program topics include:

- Introduction to Acoustics and Sound Measurement
- Human Response to Noise
- Prediction of Noise from Transportation Sources
- Noise Impact Assessment
- Barriers and Barrier Materials
- Architectural Noise Control
- Land Use Planning
- Source Noise Control

The course should be of interest to engineers, planners, architects, and government officials, who must face the problems of controlling transportation noise and its impact on the community. Fee for the course is \$95.00.

"MACHINERY NOISE CONTROL"

This highly acclaimed course will be presented by E.J. Richards from the Institute of Sound and Vibration Research, Southampton. This is your opportunity to benefit from the vast industrial experience of Professor Richards and to learn how to apply basic principles to a wide variety of industrial noise and vibration problems. The course is intended for engineers responsible for the operation of manufacturing and processing facilities or for individuals involved in the prevention of industrial hearing loss.

The course fee of \$295.00 includes a comprehensive book of lecture notes.

For anyone interested in attending either of these courses, application forms and hotel reservation forms are available from The Canadian Acoustical Association, 1981 Convention Committee, Box 5768, Station L, Edmonton, Alberta T6C 4G2.

All C.A.A. members will soon be receiving an Acoustics Week Information package. The 1981 convention committee on behalf of the C.A.A. extends an invitation to all members to attend all or a part of this event. Your participation will ensure its continued success.

SEMAINE D'ACOUSTIQUE A EDMONTON

La réunion annuelle de 1981 et le symposium de l'Association Canadienne de l'Acoustique feront partie de la "Semaine d'Acoustique à Edmonton". La semaine commencera par deux cours parallèles du 5 au 7 octobre, "La Lutte au Bruit de Transports" et "Le Bruit de Machines". L'Association Canadienne de Normalisation, Comité sur le Bruit et la Vibration, tiendra sa réunion annuelle le 7 octobre. Enfin, le symposium de l'ACA achèvera cette semaine. Des prix d'hôtel spéciaux seront offerts pour toutes ces activités.

Un tour de bus guidé de la région Jasper-Banff dans les Rocheuses est prévu pour le weekend suivant cette Semaine d'Acoustique. Les membres de l'ACA sont encouragés à emmener leur époux(se) et participer à cette occasion unique.

"LA LUTTE AU BRUIT DE TRANSPORTS"

Ce cours de 3 jours, du 5 au 7 octobre, sera donné par des spécialistes connus, venant du Canada et d'autres pays. Leur présentations de divers aspects de la lutte au bruit routier et ferroviaire donneraient lieu à des discussions avec tous les participants du cours. Les sujets suivants sont inclus dans le programme:

- Introduction à l'acoustique et à la mesure sonore
- Réponse de l'homme au bruit
- Prédiction du bruit de transports
- Evaluation de l'impact du bruit
- Des écrans antibruit et leur matériaux
- La lutte antibruit et l'architecture
- Aménagement du terrain
- La lutte antibruit aux sources

Le cours devrait intéresser les ingénieurs, les planificateurs, les architectes, et les agents de gouvernement qui doivent faire face aux problèmes du bruit de transports et son impact sur la communauté.

Prix de cours : \$95.00

"LE BRUIT DE MACHINES"

Ce cours bien apprécié sera donné par Prof. E.J. Richards de "Intitute of Sound and Vibration Research", Southampton, Angleterre. C'est une occasion de profiter de la grande expérience du Professeur Richards et d'apprendre comment appliquer des principes fondamentaux à une large variété des problèmes de bruit et de vibration industriels. Le cours est conçu pour les ingénieurs responsables de faire fonctionner des unités de fabrication et de transformation, ou des individus engagés dans la prévention de la surdité professionnelle.

Prix de cours : \$295.00 (les notes du cours sont incluses).

Pour toute personne intéressée à assister à un de ces cours, des formulaires et des réservations d'hôtel peuvent être obtenus en s'adressant à l'Association Canadienne de l'Acoustique, Comité de Convention 1981, C.P. 5768, Succursale L, Edmonton, Alberta T6C 4G2.

Tout membre de l'ACA recevra bientôt des renseignements sur cette Semaine d'Acoustique. Au nom de l'ACA, le Comité de Convention 1981 étend une invitation à tous les membres d'assister à tout ou à une partie de cette semaine. Votre participation assurera son succès continu.

"THE INTERNATIONAL INSTITUTE OF NOISE CONTROL ENGINEERING"

(I/INCE)*

Excerpts from the Opening Address at Inter-Noise 80,
Miami, U.S.A., by Fritz Ingerslev, President, I/INCE.

Founding of I/INCE

The great interest in noise control which was provoked during the last two decades through the demand for favourable conditions for the citizens resulted in a pronounced need for extension of the already established international co-operation. It was realized that an organization which could undertake the international leadership in applying noise control technology should be established. INCE/USA encouraged the formation of an International Institute of Noise Control Engineering. The Institute was established in October 1974 by the general chairmen and other organizers of INTER-NOISE 1972 and 1973.

The Institute is a non-profit organization.

Purpose of I/INCE

The purpose of I/INCE comprises:

- a) The organization of international conferences
- b) The international exchange of information and news items
- c) The promotion of international co-operation in research on noise control and the application of engineering techniques for the control of noise
- d) The development of interdisciplinary contacts between noise control engineering and other related fields of work.

* The CAA INCE Representative is J.R. Hemingway (address in inside back cover).

The Queen's Symposium on Musical Perception

The Donald Gordon Centre of Queen's University

14-16 July, 1981

The Symposium is designed to bring together scholars in the disciplines which contribute to our understanding of the processes involved in music creation, performance and enjoyment. At present work in this area is presented as isolated papers in the context of meetings of researchers in the broad areas of psychology, physics, music, etc. With the exception of the three Workshops on Physical and Neuropsychological Foundations of Music which were held in Ossiach, Austria, in 1975, 1978 and 1980 there have been very few opportunities to concentrate specifically on the area of musical perception.

The organizers are Dr. Lola Cuddy of the Department of Psychology and Professor David Keane of the Department of Music at Queen's University. There have been so many recent advances in both technological and intellectual resources for approaching the common problems for workers in the various disciplines concerned with musical perception that the organizers are convinced that a symposium of the following nature is certain to be exceptionally fruitful.

The basic plan of the symposium is to have sessions dealing with three fairly limited aspects of music; to have for each two speakers address different approaches or concerns related to the topic, followed by a discussion open to all participants attending the symposium.

Proposed Program for The Queen's Symposium on Musical Perception

Tuesday, 14 July

4:00 - 6:00 p.m.	Registration
6:00 - 8:00 p.m.	Dinner
8:00 p.m.	Welcoming Addresses
	Concert of Electroacoustic Music
10:30 p.m.	Reception

Wednesday, 15 July

9:00 - 12:00	<u>Session on Structure in Music</u> speakers: - Dr. Jonathan Kramer, College-Conservatory of Music, University of Cincinnati - Dr. Annabel Cohen, Department of Psychology, University of Toronto
12:00 - 1:30 p.m.	Lunch

Wednesday, 15 July (continued)

1:30 - 4:30 p.m.	<u>Session on Auditory Sound Sources</u> speakers: - Dr. A.E. Bregman, Department of Psychology, McGill University - Dr. Floyd Toole, National Re- search Council of Canada
6:00 - 8:00 p.m.	Dinner
8:30 p.m.	Concert: Iraneus Zuk, piano Discussion of Musical Perception with reference to the works on the concert program: Iraneus Zuk, Music Department, Queen's University

Thursday, 16 July

9:00 - 12:00	<u>Session on Timbre Perception</u> speakers: - Dr. Wayne Slawson, Music Department, University of Pittsburgh - Dr. Campbell Searle, Department of Electrical Engineering, Massachusetts Institute of Technology
12:00 - 1:30 p.m.	Lunch
1:30 - 3:00 p.m.	Open discussion (point of departure: the Wednesday evening concert and points raised by the concert commentators also to be dis- cussed: the format, content and timing for future Symposia on Musical Perception).

- End of Symposium -

Note:

All seminars will be held at the Donald Gordon Centre of Queen's University. There is a registration fee of \$25.00. Residence accommodation is available. Further information may be obtained from:

Dr. Lola Cuddy
Department of Psychology
Queen's University
Kingston, K7L 3N6
(613) 547-5748.