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Colin English (r) presents Rayleigh Medal to Michael Howe (l).

IOA awards Rayleigh Medal

Michael Howe, Professor of Theoretical Mechanics at Boston University, was awarded the 2007 Rayleigh Medal of the Institute of Acoustics for his outstanding contributions to research, mainly in aeroacoustics stretching over almost four decades.

The Rayleigh Medal is awarded without regard to age to persons of undoubted renown for outstanding contributions to acoustics. It is normally presented to a UK acoustician in even numbered years and an overseas acoustician in odd numbered years. The medal is named after John William Strutt, Third Baron Rayleigh (1842-1919), a very versatile physicist who conducted both experimental and theoretical research in virtually every branch of the subject.

The presentation was made by Colin English, President of the Institute of Acoustics at the Institute's Autumn Conference on Advances in Noise and Vibration Engineering at Oxford. Following receipt of his medal, Professor Howe presented a paper on the acoustics of fluid structure interactions.

Michael Howe's published contributions to acoustics are numerous and span a wide range of topics, but are mainly in aeroacoustics, involving the interaction of sound with, or its generation by, fluid flows and rigid or flexible structures. Since 1997 he has also

published widely on pressure wave generation by the interaction of high-speed trains and tunnels.

Colin English, President of the Institute of Acoustics, added, "Professor Michael Howe's work is characterized by a profound insight into the most significant aspects of physical problems, and an outstanding gift for casting these problems in mathematical form and for finding appropriate solutions. The impact of his research in the

fields of wave propagation in general, and acoustics in particular, has been enormous. For this reason the Institute of Acoustics is very proud to award him the 2007 Rayleigh Medal, which recognizes outstanding life time achievement in the field of acoustics."

Michael Howe is a fellow of the Acoustical Society of America and served as Associate Editor of the *Journal of the Acoustical Society of America* (2001—2007).

IOA Young Persons' Award to Oxford University Acoustics Engineer

British inventor, Trevor Baylis OBE officiated at the Institute of Acoustics Awards dinner on 17 October in Oxford where Dr. Constantin-C. Coussios of Oxford University received the Institute of Acoustics' top prize in the 2007 Young Persons' Award for Innovation in Acoustical Engineering, for his contributions to cancer therapy using high-intensity focused ultrasound (HIFU). The Award is sponsored by world leading noise control company IAC Limited and celebrates the contribution of

young acoustical engineers across a huge range of British industry sectors.

Dr. Coussios is a Lecturer at the Department of Engineering Science within the Oxford Institute of Biomedical Engineering at the University of Oxford. His award-winning project utilizes novel techniques for sensing and controlling acoustic cavitation during non-invasive cancer therapy by HIFU, with a view of accelerating tumor destruction and making it possible to monitor the treatment in real time.

Trevor Baylis, guest of honor at the Awards, presented Constantin with the heavyweight silver trophy. In addition to a solid silver replica of the trophy, Constantin received a luxury weekend break for two in Barcelona with tickets to a concert of his choice, and lunch with Spain's Institute of Acoustics. He generously donated his prize check of £500 for the best student paper in biomedical acoustics to be presented at the IOA's next conference.

On accepting his award, Dr. Coussios said: "As a young researcher, I feel honored and encouraged. Acoustics enabled many life-changing developments in the course of the last century, ranging from supersonic flight to numerous architectural wonders. I very much hope that this Award will encourage other young acousticians to work on what constitutes, in my view, the biggest acoustics challenge of the 21st century:



Constantin Coussios (r) with Brian Quarendon (l) and Trevor Baylis (c).

the understanding and harnessing of the many potentially beneficial interactions between acoustic waves and biological tissue.”

Dr. Coussios is a University Lecturer in Biomedical Engineering and a Tutorial Fellow of Magdalen College at the University of Oxford. He holds B.A., M.A. and Ph.D. degrees from the University of Cambridge (UK) and worked as a post-doctoral researcher at the University of Cincinnati (OH, USA) on ultrasound-enhanced thrombolysis and at Boston University (MA, USA) on the use of high intensity focused ultrasound for cancer therapy.

Constantin Coussios is a member of the Acoustical Society of America and serves as a member of the Technical Committee on Biomedical Ultrasound/Bioresponse to Vibration. He received the ASA F. V. Hunt Postdoctoral Research Fellowship in Acoustics in 2002. He is a Board Member and Secretary of the International Society for Therapeutic Ultrasound.



Gerhard Sessler receives Technology Award

Gerhard M. Sessler, Professor of Electroacoustics at the University of Technology in Darmstadt, Germany, received the Technology Award of the Eduard-Rhein Foundation. He was cited “For outstanding and internationally acknowledged achievements in numerous areas of technical acoustics, ranging from polymer and silicon materials sciences to a number of groundbreaking new developments of electroacoustic sensor/actor devices.” In particular, Sessler was recognized for the invention, together with James E. West, of the polymer electret micro-

phone, and for the invention, together with Dietmar Hohm, of the silicon condenser microphone.

The Technology Award of the Rhein Foundation is granted annually for outstanding achievements in research and/or development in the area of information technology (www.eduard-rhein-stiftung.de). It is the most prominent award in this field in Europe.

Gerhard Sessler received his Dr. rer. nat. degree 1959 from the University of Goettingen in Germany. From 1959 to 1975 he was a member of the Acoustics Research Department of Bell Laboratories where he had responsibilities for work on electret transducers, concert hall acoustics, and charge storage phenomena in solids. In 1975, he joined the University of Technology in Darmstadt as a professor of electroacoustics. He has since been involved in various fields of acoustics and solid-state physics, in particular in acoustic silicon microphones, in electret and piezoelectric materials and transducers, and in acoustic signal processing.

Sessler is an Inductee of the National Inventors Hall of Fame, a corresponding member of the Heidelberg Academy of Science, and a Fellow of the Acoustical Society of America, the American Physical Society, and the Institute of Electrical and Electronics Engineers. He has received many awards, among them the Helmholtz-Rayleigh Interdisciplinary Silver Medal of the Acoustical Society of America, the Helmholtz Award of the Deutsche Gesellschaft fuer Akustik, and an Honorary Doctors Degree of the Belarus Academy of Science. Sessler has authored about 300 scientific or technical publications and holds 25 US patents and many patents in other countries.

Allan Pierce receives Gold Medal of AFECT

The Acoustical Foundation for Education and Charitable Trust (AFECT) of India awarded the 2007 Stanley Ehrlich Gold Medal to Allan D. Pierce of Boston University for his contributions to physical, environmental, and structural acoustics, and acoustics education. In conjunction with the receipt of the award, Pierce presented the Stanley Ehrlich lecture at the 2007 National Symposium on Acoustics, a



Allan D. Pierce

joint meeting of the Acoustical Society of India and the Madras India Chapter of the ASA, in Tiruchengode, India.

According to AFECT, the Gold Medal is presented to an eminent acoustician or surgeon, irrespective of nationality, age, or society affiliation to promote international brotherhood in the diverse field of acoustics. The award given to Pierce honors Stanley Ehrlich, an American acoustician and former ASA President, whose work strengthened professional relations between acousticians in India and the United States.

Pierce is only the third American to receive the AFECT award. As editor-in-chief of the Acoustical Society of America, Pierce became familiar with acoustical activity and research in India when the country became home to the first ASA chapter outside the US. He was nominated for the award and lecture by AFECT President Hari Paul.

Over the course of his career, his diverse acoustical interests have blended physical insight and mathematical rigor. His early research focused on determining the magnitude of an explosion by its measured waveform, which was used to verify the ban on atmospheric testing of nuclear weapons and estimated the magnitude of the eruption on Mount St. Helen's. He has been recognized for research in laser generation of sound, diffraction around thick barriers, and is studying sound propagation in the ocean with fellow Boston University professor William Carey. His book, “Acoustics: An Introduction to Its Physical Principles and Applications,” is currently distributed by the Acoustical Society of America.

The AFECT Gold Medal is the most recent in a long line of acoustical awards received by Pierce during his career. The ASA awarded Pierce its Gold Medal in 2005 and its Silver Medal in Physical Acoustics in 1991. He was the first recipient of the Rossing Prize in Acoustic Education in 2004, and was awarded the Per Bruel Gold Medal for Noise Control and Acoustics in 1995, and the Senior US Scientist Award from the Alexander von Humboldt Foundation in 1976.

Bishwajit Chakraborty awarded National Mineral Award

Dr. Bishwajit Chakraborty a senior scientist in the Geological Oceanography Division at National Institute of Oceanography, Dona Paula, Goa, was named recipient of the “National Mineral Award–2006” for his significant contributions in the field of earth sciences and related fields under the National Mineral Award Scheme of the Ministry of Mines, Government of India. The award will be presented during a special function to be held at New Delhi.

Dr. Chakraborty has over twenty-four years of research experience in Underwater Acoustics, Acoustic Signal Processing, Artificial Neural Network related to seafloor classification and Multibeam Sonar. He received B.Sc. Physics (Hons.), M.Sc. and Ph.D. degrees in Physics from Banaras Hindu University.

Dr. Chakraborty has received many honors and awards among them the prominent ones are CSIR



Bishwajit Chakraborty

Technology Award in Engineering Technology, Silver Medal in Underwater Acoustics by Acoustical Foundation, Marie Curie Fellowship, Visiting Scientist at Alfred Wegener Institute, Bremerhaven, CSIR Young Scientist Award. He has 53 research publications in various journals of national and international repute.

He is a member of the Acoustical Society of America, a life member of the Acoustical Society of India and the Indian Geophysical Union. He served as the President of the Madras India Regional Chapter of the ASA from 1996-97.

ASA members receive Canadian Acoustical Association awards

ASA member Hui Qun Deng, INRS-EMT (University of Qubec), has been named recipient of the 2007 Edgar and Millicent Shaw Postdoctoral Prize in Acoustics.

This prize is offered to a highly qualified candidate who has completed all formal academic and research training and who wishes to acquire at least one year of supervised research experience in an established setting. The award consists of a cash prize of \$3000 for full-time research for 12 months.

Marc-André Gaudreau, a student at École de Technologie Supérieure (Montréal) has been named recipient of the 2007 Eckel Student Prize Award in Noise Control.

Oliver C. Eckel was a recognized authority in acoustics and mechanical design, and founder of Eckel Industries Inc. He pioneered the design of ane-



Marc-André Gaudreau

choic chambers and developed panel systems for noise control in enclosures. This award, established by the Eckel family and Eckel Industries of Canada Ltd., pays tribute to the many contributions to acoustics and noise control by Oliver C. Eckel. The award consists of a cash prize of \$500.



Roman Maev

Roman Maev receives Canadian Association of Physicists award

Dr. Roman Maev, Daimler/Chrysler Industrial Research Chair in Applied Solid State Physics and Material Characterization, Department of Physics, University of Windsor, was named recipient of the Canadian Association of Physicists (CAP) 2007 Outstanding Achievement Award in Industrial and Applied Physics. The citation reads: “For his outstanding work in the field of acoustic microscopy.” The award was presented during the CAP awards banquet held on 19 June 2007.

The CAP Medal for Outstanding Achievement in Industrial and Applied Physics was established in 1991. The medal recognizes and promotes the creativity of scientists working in Canada in the area of industrial and applied physics. The award specifically recognizes the successful application of physical principals to the creation of practical innovations and novel, or commercialized products, processes, or patents.

Dr. Maev received B.Sc. and M.Sc. degrees in Theoretical Solid State and

Nuclear Physics from Moscow Physical Engineering Institute in 1970, and a Ph.D. in Photoconductor Physics from the USSR Academy of Sciences in 1973. In 1997 he established the Centre for Imaging Research and Advanced Material Characterization at the University of Windsor. Dr. Maev developed a new generation of acoustic microscopes including a portable multi-eyed acoustic microscope lens system for material and biomaterial research applications and a 2D matrix array hand-held ultrasonic NDE ana-

lyzer. Dr. Maev has built transducers into robotic equipment for welding, adhesive bonding and other assembly-line manufacturing processes.

Dr. Maev, a member of the Acoustical Society of America, has won many awards for his innovations, research discoveries and inventions. He was awarded the Pioneer Award by American Institute of Ultrasound in Medicine in 1988 and 1989, the Centenary Ernst Abbe Medal from the World Microscopical Society, Letter of Recognition for Research Excellence from the Deputy

Prime Minister of Canada in 2001, Award for Outstanding Research and Development from DaimlerChrysler Corporation in 2002, and Canada Innovation Summit Award in recognition of contributions to new knowledge and technical innovation in 2003.

The Canadian Association of Physicists, founded in 1945, is a professional association representing over 1600 individual physicists and physics students in Canada, the U.S. and overseas, as well as a number of Corporate and Departmental Members.

International Meetings Calendar

2008

27 February	Institute of Acoustics, Soundscapes inside/outside future buildings, London, UK [www.ioa.org.uk/viewupcoming.asp]	25-29 August	Security, Lyngby, Denmark [www.wss2008.org]
28 February	Institute of Acoustics, Windfarm Noise, Armagh City Council, County Armagh, UK [www.ioa.org.uk/viewupcoming.asp]	8-12 September	10th International Conference on Music Perception and Cognition (ICMPC 10), Sapporo, Japan [icmpc10.typepad.jp]
3-10 March	34th Meeting of the German Association for Acoustics (DAGA2008), Dresden, Germany [2008.daga-tagung.de]	10-12 September	International Symposium on Underwater Reverberation and Clutter, Lerici, Italy [isurc2008.org]
5 March	Noise Nuisance, London, UK [www.ioa.org.uk/viewupcoming.asp]	15-17 September	Autumn Meeting of the Acoustical Society of Japan, Fukuoka, Japan [www.asj.gr.jp/index-en.html]
12 March	Transportation Noise Update, Birmingham, UK [www.ioa.org.uk/viewupcoming.asp]	22-26 September	International Conference on Noise and Vibration Engineering (ISMA2008), Leuven, Belgium [www.isma-isaac.be]
17-19 March	Spring Meeting of the Acoustical Society of Japan, Narashino, Japan [www.asj.gr.jp/index-en.html]	23-25 September	INTER_SPEECH 2008 - 10th ICSLP, Brisbane, Australia [www.interspeech2008.org]
30 March-1 April	SAE Brasil Noise and Vibration Conference-NVH, Florianopolis, SC, Brazil [www.saebrasil.org.br/eventos/secao_parana_sc/nvh2008/site]	21-23 October	Underwater Noise Measurement, Southampton, UK [www.ioa.org.uk/viewupcoming.asp]
8-11 April	Oceans08, Kobe, Japan [www.oceans08mtsieekobe-technoocean08.org/index.cfm]	21-23 October	International Conference on Low Frequency Noise and Vibration, Tokyo, Japan [www.lowfrequency2008.org]
10-11 April	Institute of Acoustics (UK) Spring Conference, Reading, UK [www.ioa.org.uk/viewupcoming.asp]	21-24 October	Acustica 2008, Coimbra, Portugal [www.spacustica.pt]
16 April	Playing Safe. Meeting the Control of Noise at Work Regulations 2005 in Music and Entertainment, London, UK [www.ioa.org.uk/viewupcoming.asp]	26-29 October	Internoise 2008, Shanghai, China [www.internoise2008.org]
17-18 April	Spring Meeting of the Swiss Acoustical Society, Bellinzona (Tessin), Switzerland [www.sga-ssa.ch]	2-5 November	IEEE International Ultrasonics Symposium, Beijing, China [www.ieee-uffc.org/ulmain.asp?page=symposia]
29 June-4 July	Acoustics'08 Paris: 155th ASA Meeting, 5th Forum Acusticum (EAA) 9th Congrès Français d' Acoustique (SFA), Paris, France [www.acoustics08-paris.org]	24-26 November	Australian Acoustical Society National Conference, Geelong, Vic, Australia [www.acoustics.asn.au]
6-10 July	15th International Congress on Sound and Vibration, Daejeon, Korea [www.icsv15.org]	2009	
7-10 July	18th International Symposium on Nonlinear Acoustics (ISNA18), Stockholm, Sweden [www.congrex.com/18th_isna]	19-24 April	International Conference on Acoustics, Speech, and Signal Processing, Taipei, R.O.C. [icas-sp09.com]
21-25 July	9th International Congress on Noise as a Public Health Problem, Mashantucket, Pequot Tribal Nation (ICBEN 9, P.O. Box 1609, Groton, CT 06340-1609, USA [www.icben.org])	23-28 August	Inter-noise 2009, Ottawa, Ontario, Canada [Contact: TBA]
27-31 July	10th Mechanics of Hearing Workshop, Keele University, UK [www.mechanicsofhearing.com]	6-10 September	InterSpeech 2009, Brighton, UK [www.interspeech2009.org]
25-28 August	1st International Conference on Water Side	2010	
		23-27 August	20th International Congress on Acoustics (ICA2010), Sydney, Australia [www.acoustics.asn.au]
		26-30 September	Interspeech 2010, Makuhari, Japan [www.interspeech2010.org]