National News

Elaine Moran
Acoustical Society of America
Melville, New York 11747

Emily Tobey

Emily Tobey named Sigma Xi Distinguished Lecturer

Emily Tobey, Professor and Nelle C. Johnson Chair at the University of Texas at Dallas, has been named a Sigma Xi Distinguished Lecturer. Sigma Xi has presented its Distinguished Lecturers, since 1937. This affords the opportunity for Sigma Xi chapters to host visits from outstanding individuals who are at the leading edge of science. Each year thousands of Sigma Xi members, students and the public have an opportunity to hear exceptional talks and to ask questions of experts.

Emily Tobey heads the Dallas Cochlear Implant Program. She received her undergraduate and master's degree in speech-language pathology from New Mexico State University and Louisiana State University Medical Center. Her doctorate in speech science was obtained at the City University of New York in 1981. She was named the Polykarp Kusch Lecturer for UT Dallas, the highest honor granted by the University to an individual faculty member. Additional honors include Summer Distinguished Lecturer-in-Residence at Texas Woman's University; Distinguished Academy Scientist, Louisiana Academy of Sciences; Fellow of the American Speech-Language and Hearing Association and the Acoustical Society of America; Visiting Scholar at the Australian Bionic Ear and Hearing Research Institute; and Visiting Research Professor at the University of Montpellier. She has delivered the Marjorie Sherman Memorial Lecture, University of Nottingham; the Graham Fraser Memorial Lecture at Royal Academy of Medicine in London, England and the keynote address at the Nalli-Ingolia Symposium, Toronto, Canada. She has published over 100 peer-reviewed articles involving cochlear implants.

Any group interested in having Dr. Tobey present a lecture should visit the Sigma Xi website at http://www.sigmaxi.org/programs/lectureships/index.shtml or contact her directly by email at tobey@utdallas.edu.

Andrew J. Oxenham

2009 Troland Research Award

Andrew J. Oxenham of the University of Minnesota has been named recipient of the Troland Research Award by the National Academy of Sciences, which recognizes extraordinary scientific achievement . The award, which includes a $50,000 prize, was presented at a ceremony at the Academy's 146th Annual Meeting in April 2009. Dr. Oxenham was cited for "profound and rigorous contributions to our understanding of the relationship between auditory perception and its underlying physiological mechanisms."

Each year, the award is given to young investigators (age 40 or younger) to recognize unusual achievement and further empirical research in psychology regarding the relationships of consciousness and the physical world. Funds are to be used by the awardee to support his or her research within the broad spectrum of experimental psychology, including, for example, the topics of sensation, perception, motivation, emotion, learning, memory, cognition, language, and action.

Andrew Oxenham received his BMus in Music and Sound Recording from the University of Surrey and spent a year at West German Broadcasting (WDR) in Cologne before embarking on a career in auditory research. He obtained his Ph.D. in 1995 from the University of Cambridge and spent two years as a postdoctoral fellow at the Institute for Perception Research (IPO) in Eindhoven, the Netherlands, before moving to Boston in 1997. After 2 years at Northeastern University and 6 years at the Massachusetts Institute of Technology, he moved to the University of Minnesota, where he is currently Associate Professor in the Department of Psychology.

He is the author of over 80 scientific papers and book chapters. In 2001 he received the R. Bruce Lindsay Award of the Acoustical Society of America (ASA) and in 2003 he was elected a Fellow of the ASA. He has served as associate editor of the *Journal of the Acoustical Society of America* and is currently Chair of the ASA Technical Committee on Psychological and Physiological Acoustics.

Alan Berman Research Publication Award

The Naval Research Laboratory (NRL) announced the recipients of its 2008 Alan Berman Research

Tokuo Yamamoto

Publication Award. Among the outstanding publications recognized, Tokuo Yamamoto, University of Miami Rosenstiel School of Marine and Atmospheric Science Professor of Applied Marine Physics, was honored for his work as co-author with Dr. Altan Turgut of the Naval Research Laboratory's Acoustics Division. The award will be presented during the Edison Patent Awards at the Bolling Officer's Club, Bolling Air Force Base in Washington, D.C. The paper, "In situ measurements of velocity dispersion and attenuation in New Jersey Shelf sediments," which was published in the September 2008 issue *The Journal of the Acoustical Society of America* addresses the interaction of high frequency acoustic waves with silty-sand marine sediments, comparing experimental measurements over a broad frequency band (10-80 kHz) with an extension of the Biot theory of porous media developed by the authors. In-situ measurements collected by the team provided ground-truth data to the geoacoustic inversion component of Office of Naval Research (ONR) Shallow Water 2006 experiment, a collaborative project created to understand the nature of low frequency (10-1500 Hz) acoustic propagation and scattering in shallow water when strong oceanic variability in the form of fronts, eddies, boundary layers, and internal waves is present.

"Since compressional wave velocity and attenuation are two of the most important geoacoustic parameters that control sound propagation in shallow water, an understanding of their frequency dependence is important in assessing their impact on the performance of both acoustic communication systems and sonar systems in coastal environments," said Yamamoto.

Dr. Yamamoto is a member of the American Geophysical Union and the American Society of Civil Engineers among other organizations, and a fellow of the Acoustical Society of America. He is an expert in the study of wave propagation through marine sediments, acoustic waves, gravity waves and seismic waves at the University of Miami's Rosenstiel School. He received his master's degree in Civil Engineering (Soil Mechanics) from Waseda University in Japan, and his doctorate in Civil Engineering (Fluid Mechanics) from Oregon State University.

Juan Arvelo

Johns Hopkins University 2009 Diversity Recognition Award

Juan Arvelo, a physicist at the Johns Hopkins University Applied Physics Laboratory (JHUAPL), was named one of 10 recipients of the Johns Hopkins University Diversity Recognition Award. The purpose of the Award is to acknowledge outstanding accomplishments of faculty, staff and students whose demonstrable efforts foster greater appreciation, advancement and celebration of diversity and inclusiveness in the Johns Hopkins culture and environment.

Juan completed his BS degree in Physics (Magna Cum Laude & Enrico Fermi award for best physics student) at the University of Puerto Rico, Mayagüez, PR. He joined the Naval Surface Warfare Center, White Oak, MD, and completed his Ph.D. degree in Physics at the Catholic University of America in Washington, DC. He is on part-time sabbatical as a faculty member of the Whiting School of Engineering's Mechanical Engineering Department at Johns Hopkins.

Dr. Arvelo has been committed to diversity in the workplace and the scientific community during his entire career. While at JHUAPL, Juan joined APL's Women and Minorities Advisory Council during the initial years after its formation in 2001. During this last year, Juan also co-founded the APL's Hispanic Awareness Club (HAC) and the Hispanic Heritage Month Planning Committee.

Dr. Arvelo's commitment to diversity goes beyond the Johns Hopkins Institutions. Juan has been an active member of the American Institute of Physics (AIP) and the Acoustical Society of America (ASA) since 1983. In addition to becoming president of the ASA's Washington DC chapter in 2003, co-chair of the ASA Committee on Regional Chapters in 2005, and associate editor of *Proceedings of Meetings on Acoustics* (POMA), Juan also became ASA liaison to the AIP Committee on Under-Represented Minorities (CURM) in 2007, which was formed to explore steps that AIP should take to increase diversity in physics.

In an effort to increase diversity in the physics and acoustics communities, he took on the role of leading an effort to introduce acoustics to the annual joint conference of the National Society of Black Physicists (NSBP) and the National Society of Hispanic Physicists (NSHP). At the 2008 NSBP/NSHP conference, Juan chaired two acoustics technical sessions and during the February 2009 conference, Juan led a team of ASA volunteers to increase the number of acoustics-related events.

To institutionalize, sustain, and foster further diversity efforts, the ASA recently approved Juan's proposal to form an Ad-Hoc Committee on Diversity in Acoustics (CDA). The ASA's president appointed Juan as chair of this committee, which has been charged with exploring and proposing activities designed to attract members of underrepresented groups to the profession of acoustics, to encourage diversity members to join the Society and to become active participants in

sessions and committees, to assist them to strive for fellowships, and to encourage them to accept leadership positions in the Society.

John J. Earshen

AIHA Announces 2009 Fellow Award Winners

John J. Earshen, President of Angevine Acoustical Consultants Inc. of East Aurora, NY, was named one of 26 new Fellow Award winners by The American Industrial Hygiene Association (AIHA). Members chosen to be Fellows have been nominated by colleagues in the profession for their significant contributions to the practice of industrial hygiene or related disciplines. The Fellow classification is limited to no more than 5 percent of the AIHA membership. Mr. Earshen is a Fellow of the Acoustical Society of America.

Robert L. Clark named dean of SEAS

Robert L. Clark has been named dean of the School of Engineering and Applied Sciences (SEAS) at the University of Rochester. He was recommended for the deanship after a national search.

Dr. Clark earned his doctorate in mechanical engineering from the Virginia Polytechnic Institute in Blacksburg, VA, and joined Duke's Department of Mechanical Engineering and Materials Science in 1992. He is an expert in the science of acoustics and in bionanomanufacturing. His work in these areas has led to 100 journal publications and earned him awards including the R. Bruce Lindsay Award of the Acoustical Society of America, the National Science Foundation Career

Robert L. Clark (Credit: Univ. of Rochester)

Program Award, the Presidential Early Career Award for Scientists and Engineers, and the NASA Group Achievement Award. He is a fellow of both the Acoustical Society of America and the American Society of Mechanical Engineers.

University of Nebraska Students receive awards

Cassandra Wiese was named recipient of an American Society for Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Graduate Student Grant-in-Aid. A Grant-in-Aid is a grant of funds to a full-time graduate student of ASHRAE-related technologies. It is awarded once each year for use in the following academic year. Normally 10 to 25 grants are made each year. The Grant is intended to encourage the student to continue his/her preparation for service in the heating, ventilating, air-conditioning, and refrigeration industry. The relevance of the research proposed by the candidate is a consideration for awarding the grant.

Wiese is working toward an M.S. degree at the University of Nebraska. She received a B.S. in physics-acoustics from Northern Illinois University where she received the 2004 Outstanding Women Student Award. Her advisor was Professor Thomas Rossing. She is a student member of the Acoustical Society of America, ASHRAE, Society of Women Engineers, and the Institute of Noise Control Engineering.

Dakota Kelley was named recipient of ASHRAE's 2009 Henry Adams Scholarship. The scholarship, a one time award of $3000, was established by the consulting firm of Henry Adams Inc. in memory of its founder for full-time study in heating, ventilating, refrigeration, and air conditioning in an ABET-accredited program at an accredited school

Dakota is currently a senior in the College of Architectural Engineering at the University of Nebraska. His degree focus is mechanical system design and architectural acoustics, and he will begin pursuing a Master of Architectural Engineering degree during the 2009-2010 academic year. Dakota is a student member of the Acoustical Society of America and serves as an officer for the University of Nebraska's local ASA and ASHRAE chapters, and he is also an acoustics research assistant. Outside of school Dakota works for a Dallas-based engineering firm where he simulates building energy performance.

Cassandra Wiese

Dakota Kelley

ASA participates in joint NSBP/NSHP meeting

The Acoustical Society of America recently formed the Ad-Hoc Committee on Diversity in Acoustics (CDA). This committee is charged with exploring and proposing activities designed to attract members of under-represented groups to the profession of acoustics, to encourage diversity members to join the Society and to become active participants in sessions and committees, to assist them to strive for fellowships, and to encourage them to accept leadership positions in the Society.

In collaboration with the Committee on Education in Acoustics, members of the CDA coordinated various acoustics-related events at the 2009 joint annual conference of the National Society of Black Physicists (NSBP) and the National Society of Hispanic Physicists (NSHP) held 11-14 February in Nashville, TN. About 650 registrants, 350 university students, and 80 exhibitors attended this conference.

Immediately after the opening reception, professor emeritus Uwe Hansen (Indiana State University) conducted a musical acoustics demonstration with members of the Nashville Jazz Orchestra. The demonstration included discussion of wave propagation and standing waves with a long spring and spectral analysis of each musical instrument to explain the physical mechanisms responsible for their unique spectral characteristics and harmonics. The discussion of each musical instrument was followed by the performance of a musical piece featuring that instrument.

A total of 157 technical presentations from a wide range of Physics subfields were delivered during the following three days of the conference. Professor Tyrone Porter (Boston University) chaired the acoustics technical session with professors Erica Ryherd (Georgia Tech), David T. Bradley (Vassar College), and Juan Arvelo (Johns Hopkins) as invited speakers. Juan's talk was geared to exposing students and faculty to acoustics as a suitable introduction to Physics for today's iPod generation. Erica introduced the audience to the psychological and physiological effects of sound as an example of how acoustics spreads beyond the realms of Physics. David delivered a presentation on the measurement and prediction state of the art for sound scattering from reflective surfaces used in architectural acoustics.

The University Students' Acoustics Poster Competition (USAPC) was held on the last day of the conference. The three judges were professors Anthony Atchley (Penn State), Uwe Hansen, and Juan Arvelo. The first place award went to Billy Andre for his poster entitled "A pre-treatment planning strategy for high intensity focused ultrasound (HIFU) treatments." Candido Diaz was awarded second place for his poster "Experimental quantification of acoustic scattering from diffusers: Reverberation chamber design and measurement." The third place was awarded to Norman Philipp for the poster "Analysis of existing modular classroom acoustics for proposed addendum to ANSI standard S12.60-2002 on

Billy Andre (left), winner of the Acoustics Poster Competition first place award is congratulated by Juan Arvelo (right).

Candido Diaz (right) winner of the Acoustics Poster Competition second place award is congratulated by Juan Arvelo (left).

classroom acoustics."

In addition to these events, an ASA exhibit booth was available to welcome and inform curious faculty and students. Finally, Uwe Hansen conducted acoustics demonstrations throughout the entire conference in the grand exhibit hall. The demonstration tables were occupied with several instruments including long springs, wine glasses, shakers and plates forming Chladni patterns, tuning forks, laptops with spectral analysis software, an acoustic levitation instrument, and an active noise cancellation headset.

In an effort to continue exposing underrepresented faculty and students to acoustics, all ASA members are invited to submit an acoustics paper to next year's NSBP/NSHP conference in Washington, DC, at www.nsbp.org/conference/abstracts/.

The Ad-Hoc Committee on Diversity in Acoustics will meet on Thursday mornings of each national ASA meeting. Interested ASA members are welcome to attend and actively participate.

Juan Arvelo

USA Meetings Calendar

2008

18-22 May	157th Meeting of the Acoustical Society of America, Portland, OR [Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; Tel.: 516-576-2360; Fax: 516-576-2377; Email: asa@aip.org; WWW: http://asa.aip.org].
24-28 June	5th International Middle-Ear Mechanics in Research and Otology (MEMRO), Stanford University, Stanford, CA [http://memro2009.stanford.edu].
26-30 October	158th Meeting of the Acoustical Society of America, San Antonio, TX [Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; Tel.: 516-576-2360; Fax: 516-576-2377; Email: asa@aip.org; WWW: http://asa.aip.org].

2010

19-23 April	Joint ASA/Noise-Con Meeting, Baltimore, MD [Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; Tel.: 516-576-2360; Fax: 516-576-2377; Email: asa@aip.org; WWW: http://asa.aip.org].
15-19 November	2nd Pan-American/Iberian Conference on Acoustics (Joint Meeting of the Acoustical Society of America, Mexican Institute of Acoustics, and Iberoamerican Federation on Acoustics), Cancun, Mexico [Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; Tel.: 516-576-2360; Fax: 516-576-2377; Email: asa@aip.org; WWW: http://asa.aip.org].