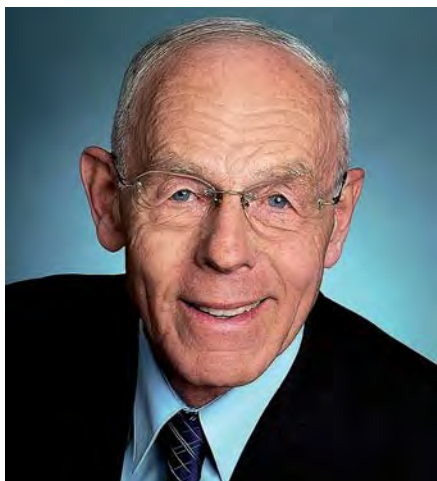


Elaine Moran

Acoustical Society of America  
Melville, New York 11747



Gerhard M. Sessler

## 2010 Benjamin Franklin Medal Awarded to ASA members

Gerhard M. Sessler and James E. West have been named recipients of The Franklin Institute 2010 Benjamin Franklin Medal in Electrical Engineering “for the invention and development of the first practical electret microphone, which can inexpensively be made small enough to fit into cellular phones, digital cameras, and other portable devices.” The award will be presented in April 2010.

Founded in honor of America’s first scientist, Benjamin Franklin, The Franklin Institute is one of America’s oldest and premier centers of science education and development in the U.S. Its mission is to inspire an understanding of and passion for science and technology learning. Through the Franklin Institute Awards, The Franklin Institute seeks to broaden public awareness and encourage an understanding of the world of science and technology.

At Bell Labs in 1962, James West and Gerhard Sessler patented the electret microphone, in which thin sheets of polymer film, metal-coated on one side, are given a permanent charge to serve as the membrane and bias of a condenser microphone that helps convert sound to electrical signals with high fidelity. Almost 90 percent of the

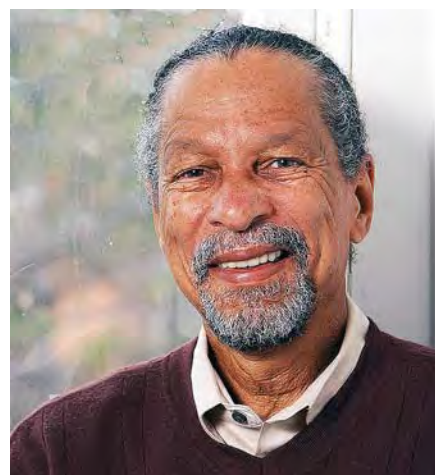
more than two billion microphones produced today are based on the principles developed by West and Sessler.

Gerhard M. Sessler is Professor of Electroacoustics at Darmstadt University of Technology in Darmstadt, Germany. He has about 300 publications in scientific and technical journals and in conference proceedings and has served as Associate Editor for *Acustica/acta acustica* (1993- ) and the *IEEE Transactions on Dielectrics and Electrical Insulation* since 1998. He is a Fellow of the Acoustical Society of America, the Institute of Electrical and Electronics Engineers, and the American Physical Society and member of the Audio Engineering Society and the Deutsche Gesellschaft für Akustik (German Acoustical Society). He served as Chairman of Deutsche Arbeitsgemeinschaft für Akustik (German Acoustical Association) from 1984 to 1990.

Sessler received the ASA’s Helmholtz-Rayleigh Interdisciplinary Silver Medal in 1997, the Electrochemical Society’s Callinan Award (1970), the Senior Award of the IEEE Group on Audio and Electroacoustics (1971), and the Helmholtz Medaille of the Deutsche Gesellschaft für Akustik (1993). He was inducted into the National Inventors Hall of Fame (USA) in 1999.

James E. West is Research Professor of Electrical and Computer Engineering at Johns Hopkins University in Baltimore, Maryland. He holds 47 U.S. and more than 200 foreign patents on various microphones and techniques for making polymer electrets. He was inducted into The National Inventors Hall of Fame in 1999 for the invention of the electret microphone. He has authored more than 100 refereed papers and has contributed to several books on acoustics, solid state physics, and material science.

West is a member of the National Academy of Engineering (NAE), the Board of Directors of The National



James E. West

Inventors Hall of Fame, the NAE Committee on Diversity in the Engineering Workforce, and the Scientific Advisory Committee of The International Symposium on Electrets. He is a Fellow of The Acoustical Society of America, and the Institute of Electrical and Electronics Engineers. He is the recipient of the Electrochemical Society of America Callinan Award (1970) the Senior Award (1970) of the IEEE Group on Acoustics, the Lewis Howard Latimer Light Switch and Socket Award (1989) of the National Patent Law Association, He received the ASA Silver Medal in Engineering Acoustics (1995) and the ASA Gold Medal in 2006. In 2002 he was The Audio Engineering Society Richard C. Heyser Memorial Lecturer. In 2008 he was awarded the 2006 National Medal of Technology, the United States highest honor for technological innovation.

Jim West served as President of the Acoustical Society of America (1998-99), member of the Executive Council (1989-92), and Chair of the Technical Committee on Engineering Acoustics (1974-77). He was Cochair of the First Pan American/ Iberoamerican Meeting on Acoustics jointly sponsored by ASA, the Mexican Institute of Acoustics, and the Iberoamerican Federation of Acoustics in 2000.



Colin Hansen

### Colin Hansen awarded Rayleigh Medal

Colin Hansen, was awarded the Institute of Acoustics Rayleigh Medal at the Euronoise Congress at Edinburgh, October 2009. The Rayleigh Medal is the premier award of the UK's Institute of Acoustics. It is awarded without regard to age to persons of undoubted renown for outstanding contributions to acoustics. 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.

Professor Hansen was awarded his PhD in acoustics and vibration by the University of Adelaide, Australia, in 1980 and is currently Professor and Head of the School of Mechanical Engineering at the same university. He has spent the last 30 years researching consulting and teaching in acoustics and the past 21 years as an academic staff member at the University of Adelaide. Prior to that he was an acoustics and vibration consultant with BBN in Los Angeles, USA (4 years) and CJ Abell and Co in Adelaide, South Australia (3 years). His research interests include aeroacoustics, ultrasonics, and active noise and vibration control. He is the author or co-author of 11 books, 9 book chapters and the editor of 2 books. He has also authored and co-authored over 250 papers in peer reviewed journals and conference proceedings.

Professor Hansen is a Fellow and

Past President of the International Institute of Acoustics and Vibration, a Fellow of the Australian Acoustical Society and the Institution of Engineers (Australia), a Chartered Professional Engineer and a member of the Acoustical Society of America and the American Society of Mechanical Engineers.

### Sadaoki Furui named recipient of the James L. Flanagan Award

Professor Sadaoki Furui, has been named recipient of the 2010 James L. Flanagan Speech & Audio Processing Award by the Institute of Electrical and Electronics Engineers Signal Processing Society "for contributions to and leadership in the field of speech and speaker recognition towards natural communication between humans and machines." The IEEE James L. Flanagan Speech and Audio Processing award is presented for an outstanding contribution to the advancement of speech and/or audio signal processing.

The award consists of a bronze medal, certificate and honorarium. IEEE is a world's leading association of professionals related to electricity, electronics, and other technology fields with more than 375,000 members in over 160 countries.

Sadaoki Furui received B.S., M.S., and Ph.D. degrees in mathematical engineering and instrumentation physics from Tokyo University, Tokyo, Japan in 1968, 1970, and 1978, respectively. He joined the Electrical Communications Laboratories of Nippon Telegraph and Telephone



Sadaoki Furui

(NTT) Corporation in 1970, and later served as a Research Fellow and the Director of the Furui Research Laboratory at NTT Human Interface Laboratories, from 1991 to 1997. From December 1978 to December 1979, he served on the staff of the Acoustics Research Department of Bell Laboratories, Murray Hill, New Jersey, as a visiting researcher. He is currently a Professor of the Department of Computer Science, Graduate School of Information Science and Engineering, Tokyo Institute of Technology. He has also served as Dean of the Graduate School of Information Science and Engineering from 2007 to 2009, and is now serving as Director of Institute Library.

Dr. Furui's research interests include analysis of speaker characterization information in speech waves and its application to speaker recognition as well as interspeaker normalization and adaptation in speech recognition. He has authored or coauthored over 800 published articles.

He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the Acoustical Society of America (ASA), the Institute of Electronics, Information and Communication Engineers of Japan (IEICE) and the International Speech Communication Association (ISCA). He served as President of the ISCA from 2001 to 2005, and the Acoustical Society of Japan (ASJ) from 2001 to 2003. He was an Editor-in-Chief of the *Journal of Speech Communication* from 1997 to 2001, Chief Editor of the *Journal of the ASJ* from 1997 to 1999, and Chief Editor of the *English Journal of IEICE* from 2001 to 2003. He is a member of the Editorial Board of the *Journal of Computer Speech and Language* and the *Journal of Speech Communication*.

Dr. Furui has received numerous awards including the Yonezawa Prize (1975), the Sato Paper Award from the ASJ (1985 and 1987), the Senior Award from the IEEE Acoustics, Speech, and Signal Processing Society, and the Achievement Award from the Minister of Science and Technology, both in 1989. He received the IEEE Signal Processing Society Award, the

Achievement Award from the Minister of Education, Culture, Sports, Science and Technology, and the Purple Ribbon Medal from the Japanese Emperor in 2006, and the ISCA Medal for Scientific Achievement in 2009. He was awarded the IEICE Book Award (1990), its Achievement Award (2003), and the IEICE Distinguished Achievement and Contributions Award (2008).

Professor Furui served as the Cochair of the 4th joint meeting of the Acoustical Society of America and the Acoustical Society of Japan held in Honolulu in 2006.



Lewis S. Goodfriend

### Lewis S. Goodfriend named Fellow of INCE/USA

Lewis S. Goodfriend was named one of the first members of the Institute of Noise Control Engineering to be elected to the grade of fellowship. The Board of Directors for INCE/USA formally approved the grade of fellowship to honor and recognize publicly any member who has rendered service to the institute and has made notable or distinguished contributions to the advancement of noise control engineering or notably promoted knowledge of noise control engineering.

Mr. Goodfriend served as president of Lewis S. Goodfriend & Associates from 1953 to 2002. He is a Consulting Engineer serving clients in the areas of architectural acoustics; noise assessment and control programs for industry, communities, and airports; air conditioning noise control and product development.

Mr. Goodfriend received a degree in mechanical engineering from Stevens Institute of Technology in 1947 and a Master of Electrical Engineering degree from the Polytechnic Institute of Brooklyn in 1952. He is a licensed professional engineer in New Jersey, New York and California.

Lewis Goodfriend is a Fellow of the Acoustical Society of America and the Audio Engineering Society, a past president and former member of the board of directors of the Institute of Noise Control Engineering, senior member of the Institute of Electrical and Electronics Engineers, member of the Consulting Engineers Council, the American Industrial Hygiene Association, and the American Society for Testing and Materials. Additionally, He served on the board of trustees of Stevens Institute of Technology. He served as editor of *The Journal of the Audio Engineering Society*, *Noise Control*, a publication of the Acoustical Society of America, *Sound and Vibration Magazine*, *Noise Control Engineering* and *Noise Control Engineering Journal* of the Institute of Noise Control Engineering.



Lawrence Crum

### Lawrence Crum elected President of ISTU

Lawrence Crum, Professor at the University of Washington, was recently elected President of the International Society for Therapeutic Ultrasound (ISTU). ISTU was formed in 2001 to serve this rapidly expanding medical discipline and now has over 400 members. It has held a symposium every

year since 2001, the most recent was held in Aix-en-Provence in September, 2009. The next symposium will be held in Tokyo, 9-13 June 2010.

Professor Crum was also elected to the Danish Academy of Natural Sciences in November, 2009. The Danish Academy recognizes contributions to all the natural sciences and limits new membership to 10 per year.



Courtney Burroughs

### INCE/USA awards Distinguished Service Medals

The Institute of Noise Control Engineering (INCE/USA) has named Courtney Burroughs, Joseph Cuschieri, George Maling, and Nora Maling recipients of its Distinguished Service Medal in 2009. The INCE/USA Distinguished Service Medal is presented to individuals who have shown exceptional dedication and service above and beyond the call of duty to INCE/USA. It is an award that acknowledges volunteers who provide significant and sustained help to INCE/USA and thus also the profession.

Courtney Burroughs was cited for the idea and its implementation to make INCE conference papers available electronically, so that people with particular noise control problems could perform a search and see what people had done and find people to contact. This effort has, and continues to be, very time consuming. He also became the Editor of the *Noise Control Engineering Journal* and has helped for many years with reviewing and preparing new Board Certification exam questions and sample problems, and in the tedious process of grading exams taken by candidates. He also works with George Maling and the Technical Chairs of the INCE/USA conferences



Joseph Cuschieri

to publish the current conference proceedings on CDs. Courtney will serve as Technical Program Chair of Noise-Con 2010 in April.

Joseph Cuschieri, INCE/USA Executive Director, was cited for his handling of the transition to the new INCE Business Office, for updating the INCE/USA website, for setting up on-line conference registration, and for continued implementation of much of the INCE website editing and conference website co-ordination. Joe Cuschieri has also run several national and international INCE conferences and served as president of INCE.



George Maling and Norah Maling

An incorporator and founding member of INCE/USA, George Maling has for 39 years tirelessly devoted an enormous amount of his own time to INCE/USA. He and Norah ran the organization as volunteers for many years. George has contributed to INCE/USA in editing *Noise/News* and continues to edit *Noise News*

*International*, attends INCE Board of Directors meetings, and also helps put together the CDs for the conference proceedings. George actually led the effort to place early issues of *NCEJ* and past issues of *NOISE Control/Sound* onto CDs. George also helped to form the INCE Foundation and has served as the president. His tireless efforts leading the NAE panel on Technology for a Quieter America are another example of his selfless dedication to the Noise Control Community. Throughout this, Norah has been at his side, both directly helping INCE and indirectly through her support of George which enables him to dedicate long hours to INCE and the noise control community.

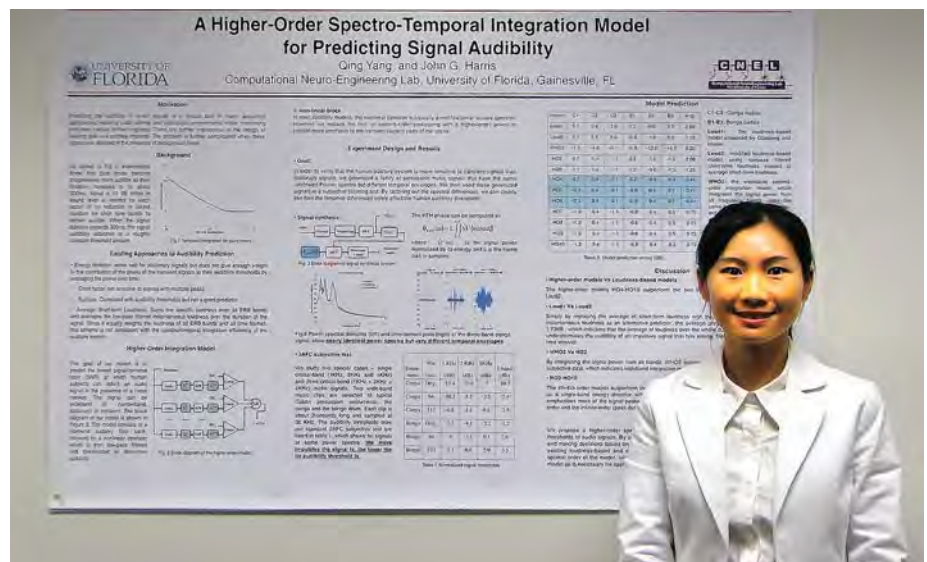
### ASA Regional Chapters hold Royster Award Poster Session Competitions

The Royster Student Scholarship Award Program was established through a generous grant from Larry and Julia Royster. This is a chapter-run poster competition held once a year for a total of \$5000 in scholarships. Full-time graduate students enrolled in a program involving acoustics, or senior undergraduate students expecting to enroll in such a program, are eligible to submit entries. Submitted posters should cover a hearing conservation or noise control topic.

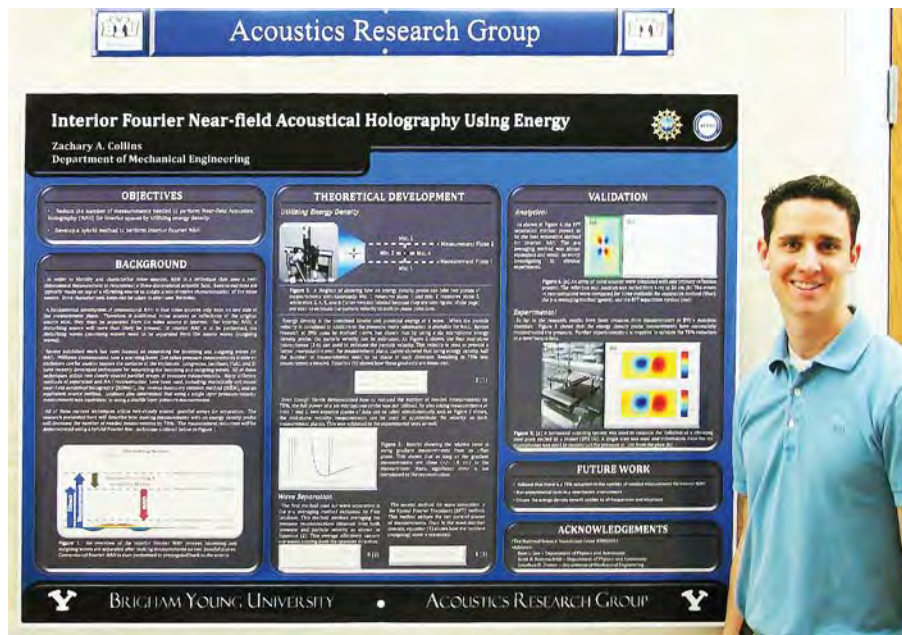
The Florida Chapter held its Poster Session at the University of South

Florida on December 17. The following six entries were submitted: “Does speech presented in noise prime the semantic and phonological processing of printed target words? Preliminary ERP evidence,” by Kristen Doyle, Dept. of Communication Sciences and Disorders University of South Florida; “Noise Prevention Program Effects on Knowledge and Attitudes towards Noise in Adolescents,” by Shawna Dell, Dept. of Communicative Disorders, University of Florida; “A higher-order spectro-temporal integration model for predicting signal audibility,” by Qing Yang, Dept. of Electrical and Computer Engineering, University of Florida; “Exploring Natural Soundscapes,” by Lucky Tsaih, School of Architecture, University of Florida; “An acoustic-perceptual study of voice tremor” by Supraja Anand, Dept. of Communicative Disorders, University of Florida; and “Automatic quantification of ‘roughness’ in speech using amplitude modulation cues,” by Savyasachi Singh, Dept. of Communicative Disorders, University of Florida.

The winning entry was judged to be “A higher-order spectro-temporal integration model for predicting signal audibility,” by Qing Yang, a Ph.D. student at the University of Florida. She will receive a Royster Award in the amount of \$2500 in support of her ongoing graduate studies. Associate Professor Catherine L. Rogers of the



Qing Yang



Zachary Collins

University of South Florida coordinated the competition.

The Brigham Young Student Chapter held its Poster Session at Brigham Young University (BYU) in December with about 55 people in attendance.

The following five entries from students at BYU were submitted: “Characterization of full-scale military jet noise using near-field acoustical holography,” by Alan Wall; “Rocket noise: Measurement and prediction by Jarom Giraud; “The effect of non-ideal microphone directivity on reflection localization methods,” by James Esplin; “Interior Fourier Near-field Acoustical Holography Using Energy Density,” by Zachary Collins; “Analog feedback control of broadband fan noise,” by Cole Duke; “Tackling the ‘Tank Killer:’ Acoustical design of a test range for the GAU-8 Avenger,” by Matthew Shaw.

The winning entry was judged to be “Interior Fourier Near-field Acoustical Holography Using Energy Density,” by Zachary Collins. He will receive a Royster Award in the amount of \$2500 in support of his ongoing graduate studies.

## ASA is currently searching for a half-time Education Coordinator (honoraria position).

For details please visit the ASA web site <http://asa.aip.org>.  
The review of applications will begin on 15 April and continue until the position is filled.