Acoustical News

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Professor Bridget Shield (l), Trevor Cox (r)

RWB Stephens Medal awarded to Bridget Shield

Professor Bridget Shield has been awarded the RWB Stephens Medal by the Institute of Acoustics (IOA) at the IOA's 2011 conference in Glasgow. The RWB Stephens Medal, named after the first President of the IOA, is awarded in odd-numbered years for outstanding contributions to acoustics research or education. The Institute of Acoustics, formed in 1974, is the UK's professional body for those working in acoustics, noise and vibration.

Bridget Shield is Professor of Acoustics at London South Bank University and President-Elect of the Institute of Acoustics. In the past few years her research has focused on the effects of noise and poor acoustics on children and teachers in primary schools. Bridget has many years' experience of teaching, research and consultancy in environmental and architectural acoustics. She has received many government research grants, and is the author of over 100 published papers. Her research interests have included prediction of industrial noise, community response to railway noise, concert hall acoustics, and annoyance caused by low frequency noise.

Professor Shield is a member of the Acoustical Society of America and in 2007 was elected an Honorary Fellow of the Institute of Acoustics. In 2011 she was also awarded the John Connell Lifetime Achievement Award from the Noise Abatement Society, recognizing her outstanding contributions to raising the profile of noise pollution as a critical environmental issue throughout her career

Per Bruel Gold Medal awarded to Mardi Hastings

Mardi C. Hastings, Professor at the George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, was awarded the Per Bruel Gold Medal for Noise Control and Acoustics by the ASME (American Society for Mechanical Engineers) in November 2011. Dr. Hastings was cited "For research and international leadership in marine bioacoustics, particularly the increased understanding of effects of underwater noise on marine life and for research efforts leading to the mitigation of anthropogenic sound in the ocean." The Per Bruel Gold Medal for Noise Control and Acoustics was established in 1987 in honor of Dr. Per Bruel, who pioneered the development of sophisticated noise and vibration measuring and processing equipment. The medal recognizes eminent achievement and extraordinary merit in the field, including useful applications of the principles of noise control and acoustics to the art and science of mechanical engineering.

Mardi C. Hastings

Mardi Hastings received B.S. and M.S. degrees in Mechanical Engineering from The Ohio State University and a Ph.D., also in Mechanical Engineering, from the Georgia Institute of Technology. Her current research interests include fluid-structure interactions, effects of sound on the marine environment, and marine bioacoustics. She is coauthor, with Whitlow Au, of *Principles of Marine Bioacoustics*, (Springer-Verlag, 2008) and author of over 50 other publications.

Dr. Hastings has served on the National Academy of Sciences Study Panel on Ocean Noise and Marine Mammals (2001-02) as well as on various committees and boards of scientific organizations. She was a member of the Institute of Noise Control Engineering Board of Directors (2007-10), ASME Noise Control & Acoustics Division Chair (1998-99), Acoustical Society of America (ASA) Executive Council (2003-06), and Chair of the ASA Animal Bioacoustics Technical Committee (2000-03). She currently serves as President of the Acoustical Society of America (2011-12).

Mardi Hastings is a Fellow of the Acoustical Society of America and has received several awards and distinctions including the National Science Foundation Presidential Young Investigator Award (1988), Society of Automotive Engineers Ralph R. Teetor Educational Award (1993), The Ohio State University College of Engineering Lumley Research Award (1996), and the U.S. Federal Highway Administration Environmental Excellence Award (2005).

ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career

enrichment, and skills development across all engineering disciplines. It includes more than 120,000 members in over 150 countries worldwide.

Adnan Akay Receives Humboldt Research Award

Professor Dr. Adnan Akay, vice president of the Board of Trustees and chair of the Department of Mechanical Engineering at Bilkent University in Ankara, Turkey, has recently received a Humboldt Research Award. The Alexander von Humboldt Foundation in Germany grants these prestigious awards to researchers "whose fundamental discoveries, new theories, or insights have had a significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in the future." Prof. Akay was elected to receive the award in recognition of his accomplishments to date in research and teaching.

Adnan Akay received B.S., M.M.E, and Ph.D. degrees from North Carolina State University. His research interests are in the areas of applied mechanics, vibrations and acoustics, noise control, tribology, and friction-induced sounds. As a Humboldt Research Award recipient, he will be invited to undertake an extensive research project in collaboration with specialist colleagues in Germany.

Adnan Akay joined Bilkent University on in 2009 as Vice President and the founding head of Mechanical Engineering Department. He moved to Bilkent from the U.S. National Science Foundation where he was the director of the Division of Civil, Mechanical and Manufacturing Innovation. Between 1992 and 2005, Dr. Akay was the head of the Mechanical Engineering Department at Carnegie Mellon University where he currently holds the position of professor. He has been recognized with several awards including the Per Brüel Gold Medal in Acoustics and Noise Control in 2005 from ASME. He is a Fellow of the American Society of Mechanical Engineers and the Acoustical Society of America.

Adnan Akay

Martin Klein

Martin Klein Receives Arnold O. Beckman Founder Award

Martin Klein was named recipient of the Arnold O. Beckman Founder Award by the International Society of Automation (ISA). The award was presented at the ISA Honors and Awards Gala, held 17 October 2011 in Mobile, Alabama. Mr. Klein was cited for the invention and development of the dual channel side scan sonar instrumentation that has opened the world's oceans for exploration, safe navigation, and underwater recovery. The Arnold O. Beckman Founder Award recognizes a significant technological contribution to the conception and implementation of a new principle of instrument design, development or application.

Martin Klein is an inventor and developer of the first commercial side scan sonar utilized for detection and mapping of lake and river beds and the ocean floor to the full known (7 miles) depth of the sea. Klein began his work on side scan sonar instrumentation in 1961 while a student at the Massachusetts Institute of Technology (MIT) and in 1968 founded his own company, Klein Associates, Inc. The Klein side scan sonar technology has been utilized to find most of the significant shipwrecks and sunken aircraft in the world, including the Titanic, USS Monitor, and the Mary Rose, and remains of the Space Shuttle Challenger to name a few. Today, the side scan sonar instrumentation is used by the U.S. government, corporations, research institutions, and marine archaeologists around the world to map ocean floors, lakes and river beds and to find objects of great interest and value.

Klein is the author of numerous publications and holds several marine technology patents. He is a member of the Acoustical Society of America and a Senior Life Member of ISA. He received a Bachelor of Science degree in electrical engineering (BSEE) from the Massachusetts Institute of Technology (MIT).

Founded in 1945, the International Society of Automation is a leading, global, nonprofit organization that is setting the standard for automation by helping over 30,000 worldwide members and other professionals solve difficult technical problems, while enhancing their leadership and personal career capabilities. ISA develops standards, certifies industry professionals, provides education and training, publishes books and technical articles, and hosts conferences and exhibitions for automation professionals. ISA is the founding sponsor of the Automation Federation.