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Portrait of Ilene Busch-Vishniac

Portrait of Ilene Busch-Vishniac unveiled at Johns Hopkins University

The portrait of Ilene Busch-Vishniac, former Dean of the Whiting School of the Johns Hopkins University, was unveiled at a ceremony on 28 October 2006 in Taylor Auditorium. Painted by Baltimore artist Sam Robinson, the portrait is installed alongside those of her predecessors.

Ilene J. Busch-Vishniac is a Professor of Mechanical Engineering at Johns Hopkins University in Baltimore, MD where from 1998-2003 she served as the sixth dean of the Whiting School of Engineering.

Dr. Busch-Vishniac received her undergraduate degrees in physics and mathematics from the University of Rochester, and M.S. and Ph.D. degrees in mechanical engineering from Massachusetts Institute of Technology. She worked at Bell Laboratories in the Acoustics Research Department before joining the mechanical engineering faculty of The University of Texas at Austin. She remained there until 1998, when she joined Johns Hopkins University as professor and dean.

She has authored approximately 30

technical articles and one book and holds nine U.S. patents on electro-mechanical sensors. Dr. Busch-Vishniac's research focuses on noise control and transducers (sensors and actuators). Her noise control work includes the design of highway noise barriers to improve sound reduction and, more recently, the characterization and control of noise in hospitals. In the transducer arena, Dr. Busch-Vishniac has worked on the development of new materials to improve microphones and loudspeakers

Dr. Busch-Vishniac is a Fellow of the Acoustical Society of America. She received the ASA R. Bruce Lindsay Award in 1987 "for outstanding contributions to developing an improved understanding of the dynamic response of electret transducers and noise propagation in urban environments" and the Silver Medal in Engineering Acoustics in 2001. She has received many other teaching and research awards, including the Achievement Award from the Society of Women Engineers and the Curtis McGraw Research Award from the American Society for Engineering Education. She has served in various professional organizations including a term as President of the Acoustical Society of America, and a term on the Engineering Deans Council of the American Society of Engineering Education.

Kenneth Cunefare named full professor

Kenneth A. Cunefare, a member of the Mechanical Engineering faculty at the Georgia Institute of Technology, was promoted to the rank of Full Professor in recognition of his contributions in the fields of structural acoustics and experimental facility testing methods. Prof. Cunefare has been at Georgia Tech since 1992, which he joined after spending a year at the Technical University of Berlin, Institute for Technical Acoustics, on the F. V.



Kenneth Cunefare

Hunt post-doctoral Fellowship."

Professor Cunefare is a Fellow of the Acoustical Society of America and has served as an Associate Editor of the Journal of the Acoustical Society of America in the area of Noise since 2002.

Abeer Alwan awarded Radcliffe Fellowship

Abeer Alwan was one of 50 people selected to be 2006-2007 Radcliffe fellows by The Radcliffe Institute for Advanced Study at Harvard University. At Radcliffe, the fellows work individually and across disciplines on projects chosen for both quality and long-term impact. Professor Alwan is one of only two electrical engineers selected.

Abeer Alwan received her Ph.D. in Electrical Engineering from MIT in



Abeer Alwan

Credit: Photo by Tony Rinaldo

1992. Since then, she has been with the Electrical Engineering Department at UCLA as an Assistant Professor (1992-1996), Associate Professor (1996-2000), and Professor (2000-present). Dr. Alwan established and directs the Speech Processing and Auditory Perception Laboratory at UCLA. She was the Vice-Chair of EE Graduate Student Affairs from 2003-2006. She is the recipient of the NSF Research Initiation Award (1993), the NIH FIRST Career Development Award (1994), the UCLA-TRW Excellence in Teaching Award (1994), the NSF Career Development Award (1995), and the Okawa Foundation Award in Telecommunications (1997).

Professor Alwan's research interests include modeling human speech production and perception mechanisms and applying these models to speech-processing applications such as automatic recognition, compression, and synthesis. Dr. Alwan is a Fellow of the Acoustical Society of America, and an elected member of Eta Kappa Nu, Sigma Xi, Tau Beta Pi, the New York Academy of Sciences, and the IEEE Signal Processing Technical Committees on Audio and Electroacoustics and on Speech Processing, 2004-2007. She was an editor-in-chief of the *Journal of Speech Communication*, and is a member of its editorial board. She is also an Associate Editor of the *IEEE Transactions on Audio, Speech, and Language Processing*. She served on the Acoustical Society of America Technical Committee on Speech Communication (1993-1999) and as a member of the ASA Membership Committee, 2004-2007.

Emmanuel P. Papadakis named the recipient of Mentoring Award

Emmanuel Papadakis was named recipient of the American Society for Nondesructive Testing (ASNT) Mentoring Award in 2006. The award for outstanding mentor was established to recognize those people in the ASNT working to encourage others to reach goals they may have otherwise not sought and to offer the rest of the membership an example of what they could be accomplishing by acting as mentors.

Emmanuel Papadakis received a



Emmanuel P. Papadakis

Ph.D. in physics from the Massachusetts Institute of Technology. He is President of Quality Systems Concepts, New Holland, PA, a firm in quality and nondestructive testing consulting. Dr. Papadakis served as Associate Director of the Center for Nondestructive Evaluation at Iowa State University and, prior to that, managed quality control research at the Ford Motor Company. He was also Department Head at Panametrics, Inc. and a member of the Technical Staff at Bell Telephone Laboratories.

Dr. Papadakis was the recipient of the Biennial Award of the Acoustical Society of America (ASA) in 1968, the 1997 Mehl Honor Lecturer for the ASNT, and the 1993 Tutorial Award from ASNT. He is a Fellow of the ASA, ASNT, and IEEE.

Grace Clark named a Fellow of the IEEE

Grace A. Clark has been elevated to the rank of Fellow of the Institute of Electrical and Electronics Engineers (IEEE) "for contributions in block adaptive filtering."

Grace Clark earned the BSEE and MSEE degrees from the Purdue University Electrical Engineering Honors Program, West Lafayette, IN, in 1972 and 1974, respectively; and the PhD ECE degree in electrical and computer engineering from the University of California Santa Barbara in 1981. Her research activities are in the theory and application of signal/image processing, estimation/detection, pattern recognition and control. Application areas include acoustics, electromagnetics and particle physics. She served as a teaching



Grace Clark

assistant at Purdue and worked in the Mariner Telecommunications Group of the Caltech Jet Propulsion Laboratory. Since 1974, Grace has been with the University of California Lawrence Livermore National Laboratory (LLNL), where she is currently a research engineer in the National Security Engineering Division. She has served on the technical/thesis committees of three MS and two PhD students at the University of California Davis. She has contributed more than 150 technical publications and serves as a reviewer for a variety of technical journals. She is a Member of the Acoustical Society of America, the Society of Exploration Geophysicists (SEG), Sigma Xi and Eta Kappa Nu. She is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE).

Victor Zue will direct CSAIL

Victor Zue, co-director of MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL), will become sole director of the lab, effective July 1. Zue, former director of the Laboratory for Computer Science, has served as co-director of CSAIL since it was formed in a merger with the Artificial Intelligence Laboratory in 2003.

Zue's primary research interest is the development of spoken language interfaces to make human-computer interactions easier and more natural. Prior to 2001, he headed the Spoken Language Systems Group, which has pioneered the development of systems that enable a user to interact with computers using multiple spoken languages.

Outside of MIT, Zue has served on



Victor Zue

many planning, advisory and review committees for the U.S. Department of Defense, the National Science Foundation and the National Academy of Science and Engineering. In 2004, he was inducted into the National Academy of Engineering. He is a Fellow of the Acoustical Society of America

H. Frederick Dylla to head the American Institute of Physics

H. Frederick Dylla has been selected to be the next Executive Director and Chief Executive Officer (CEO) of the American Institute of Physics (AIP). He replaces Marc H. Brodsky, who retired on March 31 after more than 13 years at AIP's helm. Dylla assumed the role of CEO and Executive Director on April 1, 2007.

"I'm honored to be selected to be the next AIP Executive Director," said Dylla. "I am very optimistic for the outlook of the Institute to continue to grow in its role of supporting the value of physics for its Member Societies, the physics community and the world at large. I look forward to working with the Member Societies to continue to provide first-rate services and to collaborate on joint activities."

Dylla had been with the U.S. Department of Energy's Thomas Jefferson National Accelerator Facility (Jefferson Lab) in Newport News, Virginia since 1990. During this time, he concurrently held an Adjunct Professorship in Physics and Applied Science at the College of William and Mary. The author of over 190 publications, he received his B.S., M.S. and Ph.D. in physics from the Massachusetts Institute of Technology.

Dylla is a Past President of the AVS: Science & Technology of Materials, Interfaces, and Processing, one of AIP's ten Member Societies, where he was elected a Fellow in 1998 and is currently a distinguished lecturer for the society. He is also a Fellow of the American Physical Society. He is an active member in numerous local and regional technology development organizations, including appointments by the Virginia governor to two scientific commissions, and has served on many national advisory committees for the Department of Energy, Department of Defense, and the National Science Foundation.

Outgoing CEO and Executive Director Marc Brodsky served AIP for thirteen and a half years upon his retirement. During his tenure, Brodsky oversaw dramatic changes in AIP publishing and publishing services, as nearly all editorial, production, distribution and business processes were changed to deal with electronic publishing. All the journals and magazines AIP publishes for itself and others went onto the World Wide Web, increasing access to the physics literature to more people than ever before in history. AIP outreach programs and services expanded its informational offerings for the general public to the Web and many other media outlets, including regular science news segments to over 50 million nightly viewers of local TV news programs. He also actively defended AIP's freedom of the press rights on many fronts, including attempted government restrictions on the processing of manuscripts from certain countries and suits from some



H. Frederick Dylla

comparisons of journal prices.

Headquartered in College Park, Maryland, the American Institute of Physics is a not-for-profit 501(c)(3) membership corporation chartered in New York State in 1931 for the purpose of promoting the advancement and diffusion of the knowledge of physics and its application to human welfare. AIP is one of the world's largest publishers of physics journals, and provides publishing services for a multitude of journals of physics societies and societies in allied areas of science and engineering. It is a pioneer and leader in electronic journal publication. AIP's ten Member Societies are dedicated to diverse areas of physics and related fields. With an annual budget of approximately \$75 million, AIP has a staff of 450 employees in its College Park headquarters and its Melville, NY publishing center. There are over 134,000 scientists, engineers and educators represented by AIP through its 10 Member Societies. In addition, about 5,000 students in 700 chapters from colleges and universities take part in AIP's Society of Physics Students. The AIP Corporate Associates Program promotes connections between the people, ideas and resources of its 35 member companies.

Concert Hall Research Group Third Summer Institute held in Aspen, Colorado

Nearly 60 participants attended "CHRG Aspen" the Concert Hall Research Group's Third Summer Institute in Aspen, CO held August 14-18, 2006. Participants included faculty members from the architectural, acoustical consulting, theatre consulting, and teaching professions, practicing acoustical consultants and architects, university students, and accompanying persons. The Institute was funded primarily by participants, but also with a generous contribution from the Robert Bradford Newman Student Award Fund, which allowed all 13 university students to attend the Institute free of charge. The textbook "Concert Halls and Opera Houses" by Leo Beranek was provided to participants with the help of Leo Beranek, Bill Cavanaugh, and the Acoustical Society of America (ASA). The textbook "Acoustics" by Charles M. Salter

Associates, Inc. was provided to university students by Charles M. Salter Associates. Advertising and marketing assistance was provided by the ASA Technical Committee on Architectural Acoustics and the National Council of Acoustical Consultants.

The clear air and magnificent views in Aspen proved invigorating, and the tradition of friendly networking, socializing, and sharing of information at CHRG summer institutes was continued. Institute Chair Carl Rosenberg “handled” the week-long event. Past summer institute coordinators Bill Cavanaugh and Tim Foulkes (CHRG Tanglewood, 1999) and Chris Jaffe and Robin Glosemeyer (CHRG Saratoga Springs, 2003) joined the Institute as invited VIPs and faculty.

Faculty members Jack Bogan, Bob Coffeen, Tim Foulkes, Dana Houglund, Chris Jaffe, Larry Kirkegaard, Vance Larson, Ron McKay, Chris Savereid, David Schwind, Gary Siebein, Rick Talaske, Harry Teague, George Wilson, and Michael Yantis presented material supporting two general concert hall design themes—variable acoustic design and special design for sound isolation and noise control. In addition to “classroom” study, participants toured three concert halls and attended multiple concerts and rehearsals at the Aspen Music Festival and School. On Tuesday morning, architect Harry Teague led tours his projects, the Harris Concert Hall (along with project

acoustician David Schwind) and the Benedict Music Tent (along with project acoustician Dawn Schuette). On Tuesday evening, participants attended a recital by Apollo’s Fire in the Harris Concert Hall in Aspen. On Wednesday afternoon, project acoustician Ron McKay and project theatre consultant Jack Bogan led a tour of the Vilar Center for the Arts in nearby Beaver Creek, where the performance space is located directly under an ice-skating rink (with obvious sound isolation challenges). On Thursday night, participants attended a concert by the American String Quartet at the Benedict Music Tent in Aspen.

CHRG Aspen introduced a number of “new features,” including presentations of listening notes, a design challenge, and a formal accompanying persons program. On Wednesday morning and Friday morning (after each of the previous evening’s concerts), a panel of participants presented their impressions of each musical performance, spurring lively discussions. On Wednesday morning, small groups of faculty, professionals, and students participated in “The Robert Bradford Newman Student Award Fund Design Challenge,” planned and orchestrated by Bob Coffeen and Gary Siebein on the subject of performance space/concert hall design. At the end of a two hour design charrette, each team’s sketches and written results were taped up on windows around the meeting room and team leaders were given time to pres-

ent their impressive results. After these presentations, it became obvious to the coordinators that all teams had to be declared “the winners.”

After the first CHRG Summer Institute, participant David Egan wrote a follow up report for JASA in which he mentioned: “It is anticipated that future institutes will be organized in the years ahead to build on the enthusiasm and student-researcher-consultant-architect links established during CHRG Tanglewood 99.” David was correct. All three of the CHRG summer institutes have generated “enthusiasm” in the field of concert hall design, testing, and evaluation, and many, many “links” have been generated. As at CHRG Tanglewood and CHRG Saratoga Springs, the key to success at CHRG Aspen was participation, and the coordinators wish to thank all participants and sponsors for contributing their time, resources, and enthusiasm to the Institute.

Planning for the fourth CHRG Summer Institute (2009 or 2010) is already under way. Locations on the West Coast, in the Chicago area, and in Europe have been proposed and are under consideration, as are possible “themes” for the Institute. Anyone interested in helping to plan or coordinate (or in attending) the next institute should contact Bill Dohn, Dohn and Associates, Inc. Acoustical Consulting, 551 Embarcadero, Suite A, Morro Bay, CA 93442 bill.dohn@gte.net, 805-771-8434. (Written by Bill Dohn).



Benedict Tent Tour- Group