

# 4<sup>TH</sup> ANNUAL MEETING & SYMPOSIUM

SEPTEMBER 22, 2011 | MUSEUM OF FLIGHT, SEATTLE, WA

## SPEAKERS, SESSION CHAIRS & MODERATORS

**SESSION I – THE GATHERING STORM, SESSION CHAIR – Earll Murman**, Massachusetts Institute of Technology, Ford Professor of Engineering, Emeritus, WSAS President Elect



**C. D. (Dan) Mote, Jr.** is Regents Professor at the University of Maryland College Park where he served as its President from 1998 to 2010. He is a Fellow of the American Association for the Advancement of Science, the American Academy of Arts and Sciences, an honorary member of American Society of Mechanical Engineers and is a Member and officer of the U.S. National Academy of Engineering. He served on the 2005 “Rising Above the Gathering Storm . . .” committee chaired by Norm Augustine and on the 2008 American Academy of Arts and Sciences committee “Investing in Early-Career Scientists and High-Risk, High-Reward Research” chaired by Tom Cech. Mote has emphasized global engagement at the University through research and joint programs, education and exchanges, entrepreneurial programs and competitiveness, and services to, and partnerships with governments globally. Dan Mote earned his degrees in mechanical engineering at the University of California, Berkeley and served on its faculty for three decades before moving to Maryland in 1998.



**Ed Lazowska**, Bill & Melinda Gates Chair, Department of Computer Science and Engineering, University of Washington. Lazowska received his A.B. from Brown University in 1972 and his Ph.D. from the University of Toronto in 1977, when he joined the University of Washington faculty. His research and teaching concern the design, implementation, and analysis of high-performance computing and communication systems.

He is a member of the National Academy of Engineering, a Fellow of the American Academy of Arts & Sciences, and a Fellow of the Association for Computing Machinery, the Institute of Electrical and Electronics Engineers, and the American Association for the Advancement of Science. Twenty two Ph.D. students and twenty three Masters students have completed their degrees working with him.



With an involvement in the education community spanning more than 30 years, **Senator Rosemary McAuliffe** serves as Chair of the Senate Early Learning & K-12 Education Committee. She works hard to better Washington's public schools and prepare students for life surrounded by new and emerging technology. Rosemary is a staunch advocate for teachers, students and for parent involvement in their child's educational career.

Sen. McAuliffe lives in the Bothell community with her husband, James; they are both active in the community. They have six grown children and twelve grandchildren. Rosemary and James are small business owners. She graduated from Seattle University with a Bachelor of Science in Nursing.

Rosemary is the recipient of numerous awards throughout her legislative career. A Democrat, she began her fourth term in the State Senate in January, 2009. Prior to her service as a state lawmaker, she served on the Northshore School Board of Directors for 14 years, from 1977 to 1991. She was board president for two years.

**SESSION II** – IMPROVING MATHEMATICS AND SCIENCE LEARNING, CHAIR – **Guy Palmer**, Regents Professor and Creighton Endowed Chair, Pathology and Infectious Diseases, Director of the Paul G. Allen School for Global Animal Health, Washington State University, WSAS Membership Chair.



**Andrew Meltzoff** is an international leader in child development research and cognitive science. His interests include imitative learning and how cultural stereotypes are assimilated by children. Meltzoff received a B.A. from Harvard and Ph.D. from Oxford. At UW, Meltzoff holds the Job and Gertrud Tamaki Endowed Chair and is the Co-director of the Institute for Learning and Brain Sciences. Meltzoff received awards from the Society for Developmental and Behavioral Pediatrics for outstanding research, the Kenneth Craik research award in Psychology from Cambridge University, and a MERIT research award from NIH. He is a Fellow of the American Academy of Arts & Sciences, American Association for the Advancement of Science, and a foreign member of the Norwegian Academy of Science and Letters.



**Tamara Holmlund Nelson** is an Associate Professor in Science Education at Washington State University Vancouver. As Principal Investigator on a National Science Foundation grant, she has been researching collaborative inquiry amongst secondary science and mathematics teachers for seven years. Information on this work can be found at [www.vancouver.wsu.edu/stride](http://www.vancouver.wsu.edu/stride). Holmlund Nelson also does research on science teaching in relation to students from populations underrepresented in science achievement, and on scientist-teacher partnerships. Prior to becoming a professor, she was a secondary science and mathematics teacher for 13 years. Outside of work, she loves to travel with her husband and two grown children, and hike with her chocolate lab.



**George D. Nelson** is the Director of Science Mathematics, and Technology Education and Professor of Physics and Astronomy at Western Washington University in Bellingham, Washington. From 1996 to 2001, he was Director of Project 2061 and a member of the senior staff of the American Association for the Advancement of Science. From 1989 to 1996 Dr. Nelson was Associate Vice Provost for Research and Associate Professor of Astronomy and Education at the University of Washington. From 1978 to 1989 he served as a NASA Astronaut and flew as a Mission Specialist aboard three Space Shuttle flights.

He earned his B.S. in physics from Harvey Mudd College and M.S. and Ph.D. in astronomy from the University of Washington. He has received many honors and awards including the NASA medal for Exceptional Engineering Achievement, and the Faculty Outstanding Service Award from Western Washington University. He was inducted into the Astronaut Hall of Fame in 2009.

He lives in Bellingham with his wife, Susie.

**AFTER DINNER SPEAKER** – "EDUCATION FOR THE NEXT GENERATION: MEETING THE CHALLENGE,"

**MODERATOR** – **R. James Cook**, Professor Emeritus of Plant Pathology and Crop and Soil Sciences, Emeritus Dean, College of Agriculture, Human and Natural Resource Sciences, Washington State University, and WSAS President.



**Brad Smith** is Microsoft's General Counsel and Senior vice President, Legal and Corporate Affairs. He leads the company's Department of Legal and Corporate Affairs (LCA), which has just over 1,000 employees and is responsible for the company's legal work, its intellectual property portfolio and patent licensing business, and its government affairs and philanthropic work. He also serves as Microsoft's corporate secretary and its chief compliance officer.

Since becoming general counsel in 2002, Smith has overseen numerous negotiations leading to competition law and intellectual property agreements with governments around the world and with companies across the IT sector. He has helped spearhead the growth in the company's intellectual property portfolio and the launch of global campaigns to bring enforcement actions against those engaged in software piracy and counterfeiting, malware, consumer fraud, and other digital crimes. As software has migrated online and into a computing "cloud," one of LCA's current principal goals is to help establish the legal foundation for this next generation of technology.

Smith has played a central role in ensuring that Microsoft fulfills its corporate responsibilities. In recent years Microsoft has consistently ranked in the top 2 percent of the S&P 500 for corporate governance scores. During Smith's tenure, the company's citizenship programs have reached almost 300 million people in 120 countries through technology training programs that help individuals develop the skills needed to obtain jobs. Smith has also helped advance several significant diversity and pro bono initiatives, both within Microsoft and in the broader legal profession. He currently co-chairs the board of directors of Kids in Need of Defense (KIND) and serves as chair of the Pipeline Committee of the Leadership Council on Legal Diversity.

Smith also serves as Microsoft's senior executive responsible for the company's corporate citizenship in Washington State. He has served as chair of the Washington Roundtable, a leading Washington state-based business organization. In 2010 he chaired for Washington State Governor Christine Gregoire her Higher Education Funding Task Force, and in 2011 he helped advocate for the successful adoption by the legislature of the Task Force's recommendations, including tuition-setting authority and increased accountability for the state's public universities and for the nation's first private-public funded endowment to enable more students to attend college. During the past year, Smith and his wife, Kathy Surace-Smith, co-chaired the annual campaign for the United Way of King County, the country's largest United Way campaign.

Before joining Microsoft in 1993, Smith was a partner at Covington & Burling, having worked in the firm's Washington, D.C., and London offices. He graduated summa cum laude from Princeton University and received his law degree at the Columbia University School of Law. He also studied international law and economics at the Graduate Institute of International Studies in Geneva, Switzerland.

Smith has written numerous articles and commentaries regarding international intellectual property and Internet policy issues, and has served as a lecturer at The Hague Academy of International Law.