

ISETCSC DAY INVITED SPEAKERS



Senator Kay R. Hagan United States Senator for North Carolina

For more than a decade, Senator Kay R. Hagan has worked for the people of North Carolina as a champion for working families, quality education, sound fiscal policy, and a clean environment. She and her husband, Chip Hagan, have lived in Greensboro for more than 30 years and raised their three children there: Jeanette, Tilden, and Carrie. In 2008, Senator Hagan was elected to the U.S. Senate by North Carolinians wanting active, effective leaders who will work tirelessly on the issues that matter to the state.

Senator Hagan was born in Shelby, North Carolina. A graduate of Florida State University and Wake Forest Law School, she worked at North Carolina National Bank (a predecessor to Bank of America) for 10 years, becoming a vice president in the estates and trust division. She left the bank to spend more time with her children and was an active participant in her Greensboro community, becoming involved in local charities, and shuttling carpools to soccer practices.

Senator Hagan got an early start in public service when she helped her uncle, “Walkin’ Lawton” Chiles, the former governor and U.S. Senator from Florida, paste bumper stickers on supporters’ cars. Senator Hagan and her husband were both active in Guilford County Democratic politics and in 1992 and 1996, Governor Jim Hunt asked her to run his gubernatorial campaign in Guilford County. In 1998, Senator Hagan ran for the North Carolina State Senate, where she served for 10 years.

In the North Carolina State Senate, Senator Hagan earned a reputation as a commonsense hard-worker interested in results, not partisan bickering. As co-chair of the state Budget Committee, Senator Hagan made record investments in education, raised teacher pay, and increased the minimum wage, all while cutting taxes, increasing the state’s “Rainy Day” fund, and balancing five straight budgets.

A champion of education throughout her career in public service, Senator Hagan has supported the expansion of high-quality early childhood education; innovative learning programs like North Carolina’s “Learn and Earn” program; and dropout prevention measures. She also wrote the law that requires all high school students in North Carolina to complete a course on financial literacy before graduating from high school. Appointed to the U.S. Senate Health, Education, Labor and Pensions (HELP) Committee, Senator Hagan will continue working to make education more accessible and affordable.

A mother of two daughters, Senator Hagan is proud that the first piece of legislation she co-sponsored in the U.S. Senate was the Lilly Ledbetter Fair Pay Act, which reestablished a fair rule for filing claims of pay discrimination based on race, national origin, gender, religion, age or disability.

As a member of the Health, Education, Labor and Pensions Committee while the national debate about healthcare heats up, Senator Hagan will work to reduce the cost of healthcare delivery using electronic medical records; ensuring that our children continue to receive healthcare and coverage through the Children’s Health Insurance Program (CHIP); finding innovative ways to help more Americans access healthcare in a preventative manner; and exploring options to make sure all Americans are insured.

Hailing from a proud military family, Senator Hagan is a strong supporter of the military and our veterans and is committed to maintaining North Carolina's status as the "most military-friendly state in the nation." Senator Hagan's father-in-law was a retired two-star Marine general, her father and brother both served in the Navy, and her husband, Chip, himself a Vietnam veteran, attended Wake Forest Law School with help from the G.I. Bill. Currently, Senator Hagan has two nephews serving on active duty in our nation's Armed Services. Senator Hagan was a staunch supporter of the armed forces in the North Carolina legislature, allocating funding to create three family assistance centers throughout the state and granting in-state tuition rates at universities for troops and families stationed in North Carolina. Appointed to the U.S. Senate Armed Services Committee, Senator Hagan has already made it a point to visit several North Carolina military facilities, and will continue to do so regularly. She will continue her strong support of the military through her work on Armed Services and membership in the Senate's bipartisan National Guard Caucus.

Understanding that healthy small businesses drive economic growth in North Carolina and across the country, Senator Hagan has been supportive of economic incentive packages that encourage businesses to relocate and expand in North Carolina. During her time as a state senator, North Carolina was repeatedly named as one of the best states in the country in which to do business by Forbes.com, as well as Site Selection magazine. Senator Hagan has worked to make rural areas more competitive, supporting funding for initiatives such as the Rural Economic Development Center. Named to the U.S. Senate Small Business Committee, Senator Hagan will continue to support initiatives that will create jobs in North Carolina and foster individual entrepreneurial spirit.



Louisa Koch
Director of Education
National Oceanic and Atmospheric
Administration

Louisa Koch is NOAA's Director of Education responsible for educating the public about the role of the ocean, coasts, Great Lakes and atmosphere in the global environment and developing the next generation of professionals capable of understanding and managing those resources. Ms. Koch served as NOAA's Deputy Assistant Administrator for Research in Silver Spring, Maryland from 1998 through 2005.

Before joining NOAA, Ms. Koch served as the Commerce Branch Chief at the Office of Management and Budget. She served as a Presidential Management Intern at the Department of Defense and as an economist with the Joint Economic Committee in the U.S. Congress.

Ms. Koch earned a Master's in Electrical Engineering from the Massachusetts Institute of Technology (1987), and a Bachelors Degree in Physics from Middlebury College, Middlebury, Vermont (1982). She lives in Silver Spring, Maryland with her husband Robert and two daughters.



Dr. Louis W. Uccellini
Director, National Centers for
Environmental Prediction (NCEP)
National Weather Service (NWS)
The National Oceanic and Atmospheric
Administration (NOAA)

“NCEP - From the Sun to the Sea: Where America’s Climate, Weather, Ocean & Space Services Begin”

Dr. Louis W. Uccellini is the Director of the National Weather Service’s National Centers for Environmental Prediction in Camp Springs, Md. In his position, he is responsible for directing and planning the science, technology and operations related to NCEP’s Central Operations, Environmental Modeling Center, Ocean Prediction Center, Hydrometeorological Prediction Center, Climate Prediction Center, National Hurricane Center in Miami, Fla., Storm Prediction Center in Norman, Okla., Space Weather Prediction Center in Boulder, Colo., and the Aviation Weather Center in Kansas City, Mo.

Prior, Dr. Uccellini was the Director of the National Weather Service’s Office of Meteorology from 1994 to 1999; Chief of the National Weather Service’s Meteorological Operations Division from 1989 to 1994; and Section Head for the Mesoscale Analysis and Modeling Section at the Goddard Space Flight Center’s Laboratory for Atmospheres from 1978 to 1989.

He received his Ph.D. (1977), Masters (1972) and Bachelor of Science (1971), degrees from the University of Wisconsin-Madison. Dr. Uccellini has published over 60 peer-reviewed articles and chapters in books on subjects including analysis of severe weather outbreaks, snowstorms, gravity waves, jet streaks, cyclones and the use of satellite data in analysis and modeling applications. He is the co-author of a widely acclaimed book entitled *Snowstorms along the Northeastern Coast of the United States: 1955 to 1985*, which was published by the American Meteorological Society in 1990; and authored chapters in the 1990 AMS Publication *Extratropical Cyclones* that provides a research review of explosive cyclogenesis, the 1999 AMS publication *The Life Cycles of Extratropical Cyclones* that provides a historical review of advances in forecasting extratropical cyclones at NCEP, and the 2008 AMS Publication, *Synoptic Dynamic Meteorology and Weather Analysis and Forecasting*. Also he is the co-author of a two-volume book, *Northeast Snowstorms*, published by the AMS in 2004.

Dr. Uccellini has been interviewed by countless media outlets, including Tom Skilling at WGN and has received many awards in recognition of his research and operational achievements including the Maryland Academy of Sciences Distinguished Young Scientist Award (1981), the NASA Medal for Exceptional Scientific Achievement (1985), the American Meteorological Society’s prestigious Clarence Leroy Meisinger Award (1985), and the National Weather Association’s Research Achievement Awards for Significant Contributions to Operational Meteorology (1996). He was elected as a Fellow to the AMS in 1987. In 2001 he received the U.S. Presidential Meritorious Executive Rank Award and in 2006 he received the U.S. Presidential Distinguished Rank Award.

The National Centers for Environmental Prediction is the central component of the National Weather Service, which is under the National Oceanic and Atmospheric Administration (NOAA).



Dr. William H. Brune
Pennsylvania State University
Professor of Meteorology and Department
Head

Dr. William H. Brune is Distinguished Professor and Head of the Penn State Department of Meteorology. He received a B.S. in Physics from Southwestern at Memphis in 1973 and a Ph.D. in physics from Johns Hopkins University in 1978

His research topic was on ultraviolet observations of astrophysical objects such as comets, hot stars, and the diffuse galactic background. As a Research Associate at Harvard University, he studied the chemistry that causes stratospheric ozone loss and the Antarctic Ozone Hole. He joined the faculty of the Penn State Department of Meteorology in 1988. At Penn State, he has studied the chemistry of the lower atmosphere that causes ozone and particle pollution. He develops and deploys instruments to study atmospheric chemistry in large, multi-investigator field campaigns and analyzes the results using simple models. He has served on numerous advisory committees and is a Fellow of the American Geophysical Union and the American Meteorological Society.



Dr. Judith Curry
Professor and Chair
School of Earth and Atmospheric Sciences
Georgia Institute of Technology

Dr. Judith Curry is Professor and Chair of the School of Earth and Atmospheric Sciences at the Georgia Institute of Technology. Prior to joining the faculty at Georgia Tech, she has held faculty positions at the University of Colorado, Penn State University and Purdue University

Dr. Curry's research interests span a variety of topics in weather and climate, including: the variability of hurricanes on global scales, in the North Atlantic, and land falling hurricanes striking the U.S. and Latin America; climate change in the Arctic; and applications of satellite data to interpreting recent variations in the climate data record. She is President of Climate Forecast Applications Network (CFAN), which is translating Georgia Tech's cutting edge weather and climate research into applications that support risk management by providing operational forecasting and decision support. Dr. Curry currently serves on the Earth Science Subcommittee of the NASA Advisory Council and has recently served on the National Academies Climate Research Committee and the Space Studies Board and the NOAA Climate Working Group. Dr. Curry is coauthor of the book *Thermodynamics of Atmospheres and Oceans* and is editor of the *Encyclopedia of Atmospheric Sciences*. She has published over 150 refereed journal articles. Dr. Curry is a Fellow of the American Meteorological Society, the American Association for the Advancement of Science, and the American Geophysical Union, and has received the Henry Houghton Award from the American Meteorological Society.