

Voices of Discovery Speakers (1999-2015)

Academic Year	Name	Title	Talk
1999-2000	Tona Gilmer	Dept. Head of Cancer Biology at Glaxo Wellcome Pharmaceutical Company in Research Triangle Park, N.C.	The Promise of Oncology Drug Discovery
	Benjamin S. Carson, Sr.	Director of Pediatric Neurosurgery at the Johns Hopkins Medical Institutions	The Big Picture: The Life of a Professional Surgeon
	G. Terry Sharrer	Curator of Health Science at the National Museum of American History, Smithsonian Institution in Washington, D.C.	Gene Medicine: A History
	Thomas R. Reardon, MD	President of the American Medical Association  Council Member of the National Forum for Health Care Quality Measurement and Reporting	The Future of Science and Medicine in the Next Millennium
	Keith J. Delvin	Dean of the School of Science and Professor of Mathematics at Saint Mary's College of California  Senior Researcher at the Center for the Study of Language and Information at Stanford University  Consulting Professor in the Department of Information Science at the University of Pittsburgh	Geometries of Animals, Flowers, Art and the Human Body

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2000-2001	John Fitzgerald Tisdale, M.D.	Senior Clinical Investigator of the Molecular and Clinical Hematology Branch of the National Institute of Diabetes and Digestive and Kidney Diseases	Using Bone Marrow Stem Cells to Deliver Therapeutic Genes – A Story of Mice and Men
	Frank H. Portugal, Ph.D.	Molecular Biologist  President of Cabtech Inc., and Opto-Gene Inc.	In Whose Image? The Cloning of Human Life
2001-2002	William D. Phillips	National Institute of Standards and Technology Fellow	Almost Absolute Zero: The Story of Laser

		1997 Nobel Laureate In Physics	Cooling and Trapping
	Charles D. Norton	Senior Member of High Performance Computing Software Engineering and Application Group for NASA's Jet Propulsion Laboratory	Charles D. Norton
	Donald A. Henderson	Johns Hopkins University Distinguished Service Professor Director of the Center for Civilian Biodefense Studies	Smallpox: The Death and Resurrection of a Virus
	Jane Goodall	World renowned research scientist and author  Founder of the Jane Goodall Institute for Wildlife Research, Education and Conservation  National Geographic Society Explorer-in-Residence  Cornell University Distinguished Andrew D. White Professor-at-Large	

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2002-2003	Richard N. Zare, Ph.D.	Professor of Physics and Chemistry at Stanford University  Marguerite Blake Wilbur Professor in Natural Science at Stanford	What Can Chemists Tell Us about the Origin of Life?
	Margaret A. Liu, M.D.	Vice Chairman of Transgene, Strasbourg, France  Consultant to the Bill and Melinda Gates Foundation	Gene Vaccines
	Joann M. Burkholder, Ph.D.	Professor of Aquatic Botany and Marine Sciences, N.C. State University  Pew Fellow and Leopold Leadership Fellow  Director of the Center for Applied Aquatic Ecology, N.C. State	Pfiesteria: The Science, Science Ethics, and Policy of an Issue Affecting Fish and Human Health

		<b>University</b>	
	Eric J. Barron, Ph.D.	Distinguished Professor of Geosciences and Director of the Earth and Mineral Sciences Environment Institute, Penn State University  Dean of the College of Earth and Mineral Sciences, Penn State University	Assessing the Impacts of Climate Change

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2003-2004	Robert M. Panoff, Ph.D.	President, Executive Director and Senior Computational Scientist, Shodor Education Foundation, Inc.	Computational Modeling as an Interactive Learning Environment: Using Technology to Unlock Nature's Secrets
	Sandra Postel, Ph.D.	Director, Global Water Policy Project, Amherst, MA, Visiting Senior Lecturer in Environmental Studies, Mount Holyoke College	Rivers for Life: Managing Water for People and Nature
	Edward O. Wilson, Ph.D.	Professor of Biology and Honorary Curator in Entomology, Harvard University  Pulitzer Prize-winning author	The Future of Life
	Lynn Margulis, Ph.D.	Distinguished University Professor, Department of Geosciences, University of Massachusetts, Amherst	Acquiring Genomes in the Origin of Species

Academic Year	Name	Title	Talk
2004-2005	David Suzuki, Ph.D.	Chairman, The David Suzuki Foundation, Professor Emeritus, University of British Columbia	The Challenge of the 21 <sup>st</sup> Century: Setting the Real Bottom Line
	Kathleen Dudzinski, Ph.D.	Founder and Director of the Dolphin Communication Project, Scientist-in-Residence, Mystic Aquarium/Institute of Exploration	Inside a Dolphin's Mind
	R. Michael Blaese, M.D.	President, PreGentis Inc., Director of Research, Institute for Inherited Disease Research	Using Genes as Medicines: The Promises and the

		Adjunct Investigator, National Cancer Institute	Challenge
	Mark Plotkin, Ph.D.	President of the Amazon Conservation Team	Rainforest Conservation and the Search for New Jungle Medicines

Academic Year	Name	Title	Talk
2005-2006	Mark A. Norell, Ph.D.	Chairman and Curator of the Division of Paleontology, American Museum of Natural History, NY	Dinosaur Feathers: How Fossils Inform Us About the Evolution of Birds
	Henry Petroski, Ph.D.	Aleksandar S. Vesic Professor of Civil Engineering and Professor of History, Duke University	Success and Failure in Engineering
	Peter Brown, Ph.D.	Professor of Paleoanthropology, School of Human and Environmental Studies, University of New England, Armidale, New South Wales, Australia	Discovery, Story and Implications of Homo floresiensis—the Hobbits
	May R. Berenbaum, Ph.D.	Professor of Entomology, Swanlund Chair and Chair of the Department of Entomology at University of Illinois, Urbana-Champaign	Phytochemicals: Plant Sex, Human Drugs, and Insect Rock and Roll
	Edward T. McDonough, M.D.	Deputy Chief Medical Examiner, State of Connecticut  Member of the Henry C. Lee Institute of Forensic Science, University of New Haven	Forensic Pathology: Art or Science?

Academic Year	Name	Title	Talk
2006-2007	Dr. Christian Samper	Director of the National Museum of Natural History, Smithsonian Institution	Biodiversity on the Edge: How Real is the 2010 Target?
	William W. Parsons	Deputy Director, John F. Kennedy Space Center	The Shuttle's Return to Flight Following the Columbia Disaster
	William G. Perry	Professor of Computer Information Systems, College of Business, Western Carolina University	The Science of Protecting the Nation's Critical Infrastructure
	W. Randolph Chitwood	Professor of Surgery and Senior	Medical Discoveries and

	Jr., M.D.FACS, FRCS	Associate Vice Chancellor for Health Services  Director, Eastern Carolina Cardiovascular Disease Institute, Brody School of Medicine, East Carolina University	Innovation in the 20 <sup>th</sup> Century
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2007-2008	Elizabeth C. Losos, Ph.D.	President and CEO, Organization for Tropical Studies, Duke University	Seeing the Forest for the Trees: Understanding Global Change Through the Costa Rican Experience
	John Ruffin, Ph.D.	Director, National Center on Minority Health and Health Disparities, National Institutes of Health, Washington, D.C.	Health Disparities: Global Challenge
	Dr. Bassam Z. Shakhashiri	Professor of Chemistry, University of Wisconsin – Madison William T. Evjue Distinguished Chair for the Wisconsin Idea	Science is Fun!
	William F. Ruddiman, Ph.D.	Professor Emeritus, Environmental Sciences University of Virginia, Charlottesville	Farmers First Began Altering Global Climate Thousands (Not Hundreds) of Years Ago

Academic Year	Name	Title	Talk
2008-2009	Ellen T. Ruff, J.D.	President, Duke Energy Carolinas	Our Energy Future— Trade-Offs and Choices
	Dr. Bassam Z. Shakhashiri	Professor of Chemistry, University of Wisconsin-Madison  William T. Evjue Distinguished Chair for the Wisconsin Idea	Science is Fun!
	Dr. Catherine Turner Hunt	Immediate Past President, American Chemical Society  Leader, Technology Partnerships, Rohm and Haas Company	Sustainable Chemistries: Environmentally Advanced and Economically Viable!
	Dr. Nancy Knowlton	Sant Chair for Marine Science,	The Impact of Climate

		<p>Smithsonian Institution</p> <p>Director, Center for Marine Biodiversity and Conservation</p> <p>Professor of Marine Biology, Scripps Institution of Oceanography</p>	Change on Coral Reefs
	Dr. Arthur Kramer	<p>Professor of Psychology and Swanlund Chair, University of Illinois, Urbana-Champaign</p> <p>Faculty Member in the Beckman Institute, Human Perception and Performance Group</p>	The Aging Brain and Mind – Use It or Lose It!
	Barbara Bancroft, RN, MSN, PNP	Executive Director and President, CPP Associates, Inc.	Health Matters.... From the A's to the ZZZZZZ's

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2009-2010	William H. Schlesinger, Ph. D.	President, Cary Institute of Ecosystems Studies, Millbrook, NY	Human Impacts on Global Nitrogen: The Next Big Problem?
	Kimberly L. Jones, Ph.D.	Associate Professor of Engineering, Howard University	Environmental Nanotechnology: Discerning the Influence of Nanomaterials on Our World
	Neil Shubin, Ph.D.	<p>Robert R. Bensley Professor, Organismal Biology and Anatomy</p> <p>Associate Dean, Organismal Biology and Anatomy Professor, Committee on Evolutionary Biology, University of Chicago</p> <p>Provost, The Field Museum of Natural History</p>	Finding Your Inner Fish
2010-2011	Julie Overbaugh, Ph.D.	Associate Program Head, Fred Hutchinson Cancer Research Center, Seattle, Washington	Tackling HIV Transmission Through Interdisciplinary and International Collaborations
	Craig R. Smith, M.D.	Executive Vice President and Chief Operating Officer, Algenol Biofuels Inc., Bonita Springs, FL	A Novel, Cost-effective Method for Producing Ethanol from Carbon

			Dioxide in Hybrid Algae
	Jay H. Sanders, M.D., F.A.C.P.	President and CEO of The Global Telemedicine Group  Adjunct Professor of Medicine , Johns Hopkins University School of Medicine  Visiting Professor, Yale University School of Medicine	Telemedicine: Where We Are and Where We Need to Be

Academic Year	Name	Title	Talk
2011-2012	Cindy L. Van Dover, Ph.D.	Harvey Smith Professor of Biological Oceanography, Duke University  Director, Duke University Marine Laboratory  Chair, Division of Marine Science & Conservation, Duke University's Nicholas School of the Environment	Gold Rush: Discovery of Gold Deposits in the Deep Sea & the Extraordinary Animals That Live on Them
	Andrew B. Schwartz, Ph.D.	Professor of Neurobiology, University of Pittsburgh School of Medicine  Member, Center for Neural Basis of Cognition, McGowan Institute  Member, Robotics Institute, Carnegie Mellon University	The Power of Neuronal Populations
	David M. Eagleman, Ph.D.	Assistant Professor, Dept. of Neuroscience and Menninger Dept. of Psychiatry and Behavioral Sciences, Baylor College of Medicine	Incognito: The Brains Behind the Mind
2012-2013	Robert T. Deacon, Ph.D.	Professor, Dept. of Economics and Bren School of Environmental Science & Management, University of CA, Santa Barbara	Enhancing the Wealth of Our Oceans: New Approaches to Marine Management
	Marie Davidian, Ph.D.	William Neal Reynolds Professor of Statistics, North Carolina State University	Personalized Medicine: The Right Treatment for the Right Patient

		Director, Center for Quantitative Sciences in Biomedicine, North Carolina State University	
	Christian Jobin, Ph.D.	Associate Professor, Department of Medicine, Pharmacology, Immunology/Microbiology, University of North Carolina at Chapel Hill	How Much Should You Know About Your Intestinal Microbes?

Academic Year	Name	Title	Talk
2013-2014	Paul S. Lockhart, M.S.	Colonel, USAF (ret.); NASA Astronaut  Senior Vice President, Aerospace Operations, QinetiQ North America	A Journey of Endeavor
	Sean Carroll, Ph.D.	Professor of Molecular Biology and Genetics, University of Wisconsin  Vice President for Science Education, Howard Hughes Medical Institute	Brave Genius: A Scientist's Journey from the French Resistance to the Nobel Prize
	Edward W. Felten, Ph.D.	Professor, Computer Science and Public Affairs and Director, Center for Information Technology Policy, Princeton University	TMI: Information, Identity, and Privacy

Academic Year	Name	Title	Talk
2014-2015	Daniel J.C. Herr, Ph.D.	Professor and Nanoscience Department Chair, The Joint School of Nanoscience and Nanoengineering, The University of North Carolina at Greensboro	Catching the Nanotechnology Waves, a Nature Inspired Convergence of Form and Function
	Ann C. McKee, M.D.	Professor of Neurology and Pathology  Director of Neuropathology, Boston University School of Medicine	Emerging Concepts in Chronic Traumatic Encephalopathy



	Gregory A Petsko, Ph.D.	<p>Mahon Professor of Neurology, Weill Cornell Medical College</p> <p>Tauber Professor of Biochemistry and Chemistry, Emeritus, at Brandeis University</p>	Targeting Protein Trafficking: A New Approach to the Treatment of Alzheimer's Disease
	Neil DeGrasse Tyson, Ph.D.	<p>Astrophysicist and Frederick P. Rose Director, Hayden Planetarium</p> <p>Research Associate, Department of Astrophysics, American Museum of Natural History</p>	The Sky is Not the Limit
	Robert K. Musil, Ph.D., M.P.H.	<p>Senior Fellow Scholar in Residence and Adjunct Professor, Center for Congressional and Presidential Studies, School of Public Affairs</p> <p>Adjunct Professor, School of International Service, American University</p>	Elon and the Legacy of Rachel Carson