



DISTINGUISHED LECTURESHIP IN MATERIALS AND SOCIETY

Established in 1971 to clarify the role of materials science and engineering in technology and in society in its broadest sense; to present an evaluation of progress made in developing new technology for the ever changing needs of technology and society; and to define new frontiers for materials science and engineering.

- 1971 Prof. Harvey Brooks, Harvard University
"Materials in a Steady-State World"
- 1972 Sir Alan H. Cottrell, Chief Scientific Advisor, Cabinet Office, England
"Materials and Energy"
- 1973 Dr. James Boyd, Executive Director, National Commission on Materials
Policy
"The Resource Trichotomy"
- 1974 Dr. Cyril Stanley Smith, Professor Emeritus, Massachusetts Institute
of Technology
"Metallurgy as a Human Experience"
- 1975 Dr. Michael Tenenbaum, President, Inland Steel Company
"Iron and Society - A Case Study in Constraints and Incentives"
- 1976 Dr. William O. Baker, President, Bell Laboratories
"Materials Proficiency for National Progress"
- 1977 Sir H. Montague Finniston, F.R.S., Chairman, Sears Holdings Ltd.,
England
"The Shape of Things Past and To Come"
- 1978 Prof. Herbert H. Kellogg, Stanley-Thompson Professor of Chemical
Metallurgy, Columbia University
"Toward a Materials-Conservation Ethic"
- 1979 Dr. Glenn T. Seaborg, Associate Director, Lawrence Berkeley
Laboratory, University of California
"Our Heritage of the Elements"
- 1980 Dr. Charles Crussard, Scientific Advisor, Pechiney Ugine Kuhlmann,
France
"A New Concept of Thermodynamics Applied to Materials in Industry"
- 1981 The Honorable Dixy Lee Ray, Writer and Lecturer
"Scarce Materials or Plenty: Do We Believe in Technology"
- 1982 Dr. Morris Cohen, Institute Professor Emeritus, Massachusetts
Institute of Technology
"Materials, Materialism, and Search for Meaning--An Essay"

- 1983 Dr. Raymond L. Smith, Retired President, Michigan Technological University
"Atlas Never Shrugged"
- 1984 Dr. Nathan E. Promisel, Engineering Consultant and Retired Executive Director, National Materials Advisory Board, National Academy of Sciences
"Of Perspectives, Issues and Politics in Materials Technology"
- 1985 Dr. Robert I. Jaffee, Senior Technical Advisor, Materials Support Group, Research and Development Staff, Electric Power Research Institute
"Materials and Electricity"
- 1986 Dr. Arden L. Bement, Jr., Vice President-Technical Resources, TRW, Inc.
"The Greening of Materials Science and Engineering"
- 1987 Dr. James S. Kane, Special Assistant for Laboratory Affairs, University of California-Berkeley
"An Emerging Role for the National Laboratories in Materials Science"
- 1988 Dr. Frank Press, President, National Academy of Sciences
"Advanced Materials and Competitiveness"
- 1989 Dr. Siegfried S. Hecker, Director, Los Alamos National Laboratory
"Los Alamos -- Materials and Society"
- 1990 Sir Robin Nicholson, Executive Director, Pilkington plc, England
"Materials Engineering with Vision"
- 1991 Dr. Praveen Chaudhari, IBM Research Division, T.J. Watson Research Center
"Materials Science and Engineering in the 1990s"
- 1992 Dr. Frederick Seitz, President Emeritus, Rockefeller University
"The Materials Network" (Lecture not presented due to illness)
- 1993 Dr. Donald R. Muzyka, President, Special Metals Corporation
"Materials Technology and the Materials Industry: A Critical Transition"
- 1994 Dr. Peter R. Bridenbaugh, Executive Vice President & Chief Technical Officer, Aluminum Company of America
"A 50-Year View of Materials Science - 30 Down and 20 To Go"
- 1995 Dr. Albert R.C. Westwood, Vice President, Research and Exploratory Technology, Sandia National Laboratories
"Materials and Society—Impacts and Responsibilities"
- 1996 Dr. Peter Cannon, Managing Partner, VRE Company
"Report from a Traveller -- A New 'Silk Road' for Materials Science"

- 1997 Dr. James C. Williams, General Manager, Engineering Materials Technology Laboratories, GE Aircraft Engines
"The Future of Advanced Materials in the Face of the New World Order"
- 1998 Dr. Lyle H. Schwartz, Retired Director, National Institute of Standards & Technology
"Materials and Sustainability: How Are We Doing?"
- 1999 Dr. Mary Lowe Good, Donaghey University Professor, University of Arkansas
"Materials in the 21st Century – Global Economy Innovation vs. Discovery"
- 2000 Prof. Merton C. Flemings, Toyota Professor, Massachusetts Institute of Technology
"Materials Education in 2000+"
- 2001 Dr. Bhakta B. Rath, Associate Director of Research, US Naval Research Laboratory, Material Science & Component Technology Directorate
"Abundance of Frozen Clean Energy From the Sea"
- 2002 Dr. Duncan Moore, Deputy Director for Technology, Office of Science and Technology Policy
"Continued Economic Growth and its Barriers"
- 2003 Alton D. Romig, Jr., Vice President, Nonproliferation and Assessments, Sandia National Laboratories
"Nanotechnology: Scientific Challenges and Societal Benefits and Risks"
- 2004 Prof. Diran Apelian, Howmet Professor of Engineering, Director, Metal Processing Institute
Worcester Polytechnic Institute
"Materials Engineering Challenges for the Society of 'Tomorrow': Housing, Transportation, Health and Food Delivery Needs"
- 2005..... Dr. William Madia, Vice President for Laboratory Operations, Battelle
"Nanoscale Science".
- 2006..... Prof. Joel P. Clark, Professor, Massachusetts Institute of Technology
"Economic and Environmental Issues Associated with the Selection, Manufacturing and Use of Materials."
- 2007..... Dr. Alan I. Taub, GM Research and Development, General Motors Corporation.
" Materials Challenges for a Sustainable Automotive Industry."
- 2008..... Dr. Leo Christodoulou, FASM, Program Manager, DARPA DSO, Arlington, VA
"Engineering Materials Systems for an Ever Demanding Society."
- 2009..... Dr. Jeffrey Wadsworth, CEO and President, Battelle Memorial Institute
"Powering the Future: New Energy Opportunities for Materials Science and Engineering."
- 2011..... Dr. Subra Suresh, FASM, Director, National Science Foundation, Arlington, VA
"Innovation Ecosystems: Where Do We Go From Here".

- 2012..... Prof. Julia Weertman, FASM, Walter P. Murphy Professor Emerita,
Northwestern University, Evanston, IL “Economics, Materials and
Materials Scientists.”
- 2013..... Dr. Tresa M. Pollock, FASM, Alcoa Professor, University of California
Materials Department, Santa Barbara, CA
“Flight in the 21st Century: The Roles of Materials and ICME.”
- 2014..... Dr. Robert E. Schafrik, FASM, General Electric Aviation, Cincinnati, OH
“Materials for a Non-Steady State World”.
- 2015..... Dr. Vincent J. Russo, FASM, Executive Director, Aeronautical Systems Center
Wright-Patterson ARB, OH (Retired)
“What is a Splendid Leader.”
- 2016..... Prof. Julie A. Christodoulou, FASM, Director, Naval Materials, S&T Division
Sea Warfare and Weapons Department, Office of Naval Research
Alexandria, VA
“Elegant Solutions: Exploration and Outcomes that Matter”.
- 2017..... Dr. Alexander H. King, FASM, Director, Critical Materials Institute
The Ames Laboratory, IA
“What Do We Need and How Will We Get It.”
- 2018..... Dr. Lynnette D. Madsen, Program Director, National Science Foundation,
Arlington, VA
“The Ecosystem of Research, Education, and Community.”
- 2019..... Dr. Carolyn M. Hansson, Professor, Mechanical and Mechatronics Engineering
University of Waterloo, Ontario, Canada
“The challenge of 100 year service-life requirement”
- 2020..... Dr. Charles Ward, FASM, Chief, Manufacturing & Industrial Technologies
Wright Patterson AFB, Ohio
“Integrating Materials and Manufacturing”
- 2021..... Dr. Ian M. Robertson, FASM, Professor, University of Wisconsin-Madison
“Hydrogen as an energy carrier”
- 2022..... Dr. Iver E. Anderson, FASM Senior Metallurgist, Ames Laboratory, Iowa
“Materials Research on Clean Energy: For the Sake of our Grandchildren”
- 2023..... Dr. Viola L. Acoff, Dean of the School of Engineering, Professor of Mechanical
Engineering, University of Mississippi, Oxford
“Reimagining the Development of a 21st Century Workforce to Address
Society’s Need for Materials Engineering and Technology.”
- 2024..... Prof. Julie Schoenung, FASM, Professor and holder of the Wofford Cain III
Chair, Department of Materials Science & Engineering Department of Technical
Engineering, Texas A&M University
“Saving the Planet through Sustainability-Informed Selection, Design and
Discovery of Materials.”

2025.....Prof. Federico Rosei, FASM, Professor, Department of Chemical
.....and Pharmaceutical Sciences, University of Trieste, Italy
.....“Energy Challenges from a Materials Perspective.”

2026.....Dr. Mrityunjay Singh, FASM, Chief Scientist, Ohio Aerospace Institute,
.....Cleveland, OH “Additive Manufacturing: Transforming Global Supply Chains
.....and Advancing Sustainable Societal Development”

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7/28/26