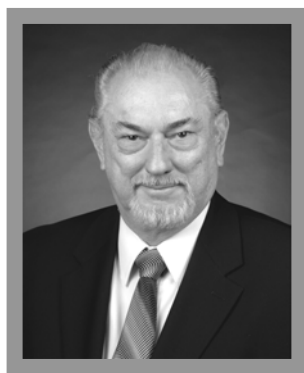
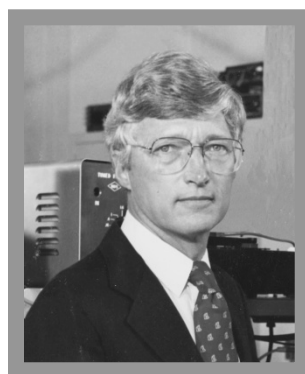


NIST Gallery of Distinguished Scientists, Engineers, and Administrators

October 9, 2015



Celebrating Our 2015 Honorees



NIST Boulder Laboratories Precision Measurements Laboratory (circa 2013)
(photo by Christina Kiffney)



JILA - University of Colorado
X-Wing Building (circa 2012)
(photo by Baxley/JILA)

NIST Gallery of Distinguished Scientists, Engineers, and Administrators

Adding Seven Portraits to the Gallery

**Friday October 9, 2015
Gaithersburg — Green Auditorium**

10:30 – 11:45 am

Arranged by
STANDARDS ALUMNI ASSOCIATION



**James F. Schooley, President
Richard N. Wright, Chair, Portrait Gallery Committee**

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Boulder Laboratories

JILA *Inside Front Cover*

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Francis J. Lovas 8

E. Clayton Teague 9

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NIST Gaithersburg

Administration Building

Advanced Chemical Sciences Laboratory

Advanced Measurement Laboratory *Inside Back Cover*

HISTORY OF THE NBS/NIST GALLERY

In the early 1970s NBS Director Lewis Branscomb authorized the establishment of a gallery of portraits of distinguished scientists, engineers, and administrators. Originally, the gallery was limited to a wall in the Lunch Club; now known as the Heritage Room. The expansion into the alcove took place in 1985 under Director Ernest Ambler, who asked the newly established Standards Alumni Association (SAA) to assume the responsibility for establishing criteria for selection and a process for soliciting nominations from the staff and managers of the institution.

The SAA Portrait Committee annually issues a call for nominations, empanels a jury which meets to evaluate the nominations, and forwards its recommendations to the NIST Director for approval. The Committee displays the portraits and biographical information for the honorees and organizes an annual induction ceremony. Over the past 30 years, the Gallery has grown to 311 portraits, with newly allocated space along the cafeteria wall and the installation of a Digital Portrait Gallery at Gaithersburg and Boulder in 2013.

SAA Portrait Gallery Committee 2015

Committee Chair..... Richard N. Wright
Committee Vice Chair Bettijoyce Lide
Digital Portrait Gallery Jeffrey Horlick
Subcommittee: Nominations and Elections Bettijoyce Lide and Harry Hertz
Subcommittee: Liaison with Honorees and Program Brochure Noël Raufaste and Jeffrey Horlick
Subcommittee: Portrait Gallery Ceremony and Advertising..... Jeffrey Horlick, Joan Schneider,
Norman Belecki, and Richard Lindstrom

2015 Jury

* indicates non-voting member

Bettijoyce Lide, Vice Chair*
Norman Belecki
William Boettinger
David Didion
Cita Furlani
Harry Hertz*
Matthew Heyman

Paul Julienne
William Kirchoff
David Lide
Richard Lindstrom
Roger Martin
John Mayo-Wells

Cedric Powell
Raymond Radebaugh
Noël Raufaste
Curt Reimann
Lyle Schwartz
Richard Wright

2015 NIST/SAA Portrait Ceremony Recognizing Seven New Honorees

We are presenting seven honorees whose portraits will be added to the NIST Portrait Gallery today. After an introduction, the honorees or their representatives will be called forward one by one; their accomplishments will be featured in presentations by leaders of NIST organizational units. The honorees will receive a folder with documentation, and will be given the opportunity to make some remarks. A portrait viewing will follow the ceremony.

PROGRAM

Opening Comments James F. Schooley, President, SAA

Welcoming Remarks Willie May, Director, NIST

Presentations Richard N. Wright, Chair, Portrait Gallery Committee

Ared Cezairliyan MML Years at NIST: 1963-1997

For pioneering development of ultrahigh-speed dynamic techniques for thermophysical property measurements of metals in both solid/liquid phases at high temperatures and for exceptional leadership in the international thermophysics community.

Robert D. Cutkosky PML Years at NIST: 1955-1991

For providing standard weights and measures over a career of realizing electrical units of measure, and for creating basic electrical standards, electrical measurement systems, and measurement techniques.

Donna K. Harman ITL Years at NIST: 1988-2005

For vision, outstanding leadership, and technical excellence in establishing an innovative evaluation infrastructure leading to very significant advancement in the state-of-the-art in information retrieval and natural language processing.

Michael J. Kurylo MML Years at NIST: 1969-2003

For leadership in the measurement and critical evaluation of gas phase kinetics, photochemical, and spectroscopic data of trace atmospheric chemical species related to the ozone layer and environmental change.

Barbara C. Lippiatt EL Years at NIST: 1977-2013

For innovation and leadership in conceiving, developing, and implementing metrics and tools for sustainable buildings.

Francis J. Lovas PML Years at NIST: 1970-2000

For outstanding contributions to microwave molecular spectroscopy and data and their application to molecular structure, inter and intramolecular forces, and interstellar chemistry.

E. Clayton Teague EL Years at NIST: 1972-2011

For outstanding scientific leadership and advancement in scanning probe microscopy, nanoscale science and metrology, precision engineering, and surface microtopography measurement, leading to new measurement science, standards, and fields of research.

Closing Remarks and Acknowledgments Richard N. Wright

ARED CEZAIRLIYAN

NBS/NIST: 1963-1997

INDUCTED: 2015



B: 9 May 1934, Istanbul, Turkey

EDUCATION:

Robert College, Istanbul, Turkey, BS (Mechanical Engineering), 1957

Purdue University, MS (Mechanical Engineering), 1960

Purdue University, PhD (Mechanical Engineering), 1963

CITATION:

For pioneering development of ultrahigh-speed dynamic techniques for thermophysical property measurements of metals in both solid/liquid phases at high temperatures and for exceptional leadership in the international thermophysics community.

POSITIONS HELD AT NBS/NIST:

Research Physicist, Heat Division, Institute for Basic Standards, 1963-1971

Research Physicist, Physical Chemistry Division, Institute for Materials Research, 1971-1978

Research Physicist, Center for Thermodynamics and Molecular Science, Center for Radiation Research, 1978-1996

Research Physicist, Metallurgy Division, Materials Science and Engineering Laboratory, 1996-1997

HONORS:

Distinguished Alumnus Award, Purdue University (1978)

U.S. Department of Commerce Silver Medal (1975) and Gold Medal (1980)

Department of Commerce Engineer of the Year (1981)

ASME Heat Transfer Memorial Award (1981)

Gold Medal by French High Temperature Society (1982)

IR-100 Award, Industrial Research and Development (1983)

Thermal Conductivity Award, International Thermal Conductivity Conference (1987)

Special Award, Japan Society of Thermophysical Properties (1989)

Outstanding Mechanical Engineer Award, School of Mechanical Engineering, Purdue University (1991)

ASME Yeram S. Touloukian Award (1997)

Award of Excellence, Federal Laboratory Consortium for Technology Transfer (1998)

MEMBERSHIPS:

American Physical Society

ASTM

ASME

American Association for the Advancement of Science

Washington Philosophical Society

Sigma Xi Honorary

Pi Tau Sigma Mechanical Engineering Honorary

PUBLICATIONS:

More than 150 publications including:

Cezairliyan, A., and McClure, J.L. "A Subsecond Pulse Heating Technique for the Study of Solid-Phase Transformations at High Temperature: Application to Iron", *High Temp. Sci.* 7, 189-196 (1975)

Cezairliyan, A., "Advances in Measurements of Thermophysical Properties by Dynamic Techniques", *High Temps.-High Press.* 11, 9-27 (1979)

Cezairliyan, A., Maglic, K.D., and Peletsky, V.E. *Compendium of Thermophysical Property Measurement Methods*, Vols. 1, 2, Springer, New York (1984, 1992)

Cezairliyan, A., McClure, J.L., and Miiller, A.P., "A Microsecond-Resolution Transient Technique for Measuring Heat of Fusion of Metals: Niobium", *Int. J. Thermophys.* 8, 577-592 (1987)

Cezairliyan, A., and Miiller, A.P., "A Dynamic Technique for Thermophysical Measurements at High Temperatures in a Microgravity Environment", *Int. J. Thermophys.* 11, 653-662 (1990)



ROBERT D. CUTKOSKY

NBS/NIST: 1955-1991

INDUCTED: 2015

B: 24 October 1933, Minneapolis, Minnesota

EDUCATION:

Massachusetts Institute of Technology, BS (Physics), 1955

CITATION:

For providing standard weights and measures over a career of realizing electrical units of measure, and for creating basic electrical standards, electrical measurement systems, and measurement techniques.

POSITIONS HELD AT NBS/NIST:

Physicist, Electricity Division, Institute for Basic Standards, 1955-1979

Physicist, Electrical Measurements and Standards Division, Center for Absolute Physical Quantities (CAPQ), National Measurement Laboratory (NML), 1980

Physicist, Temperature Measurements and Standards Division, CAPQ, NML, 1981-1984

Physicist, Length and Mass Measurements and Standards Division, CAPQ, NML, 1985-1987

Physicist, Electron and Optical Physics Division, Physics Laboratory, 1988

Physicist, Radiation Physics Division, Center for Radiation Research, 1988-1989

Physicist, Electron and Optical Physics Division, Physics Laboratory, 1990-1991

HONORS:

U. S. Department of Commerce Meritorious Service Award-Silver Medal (1961) and Gold Medal (1981)

Outstanding Young Scientist, Washington Council of Engineering and Architectural Societies (1962)

Fellow, Institute of Electrical and Electronics Engineers (1974)

Morris E. Leeds Award, Institute of Electrical and Electronics Engineers (1979)

IR-100 Award, Industrial Research and Development, automatic resistance thermometer bridge (1983)

IEEE Instrumentation and Measurement Society, Centennial Medal Award (1984)

Industrial Research IR 100 award, automatic capacitance bridge (1985)

Andrew R. Chi Prize Paper Award, Instrumentation and Measurement Society (1985)

Fellow, American Physical Society (1989)

MEMBERSHIPS:

American Physical Society

Institute of Electrical and Electronics Engineers

PUBLICATIONS:

More than 30 publications including:

Driscoll, R.L., and Cutkosky, R.D., "Measurement of Current with the National Bureau of Standards Current Balance", *Journal of Research of the National Bureau of Standards*, vol. 60, pp. 297-305 (1958)

Cutkosky, R.D., "Evaluation of the NBS Unit of Resistance Based on a Computable Capacitor", *Journal of Research of the National Bureau of Standards-A. Physics and Chemistry*, , vol. 65A, pp. 147-158 (1961)

Cutkosky, R.D., "Designs for Temperature and Temperature Gradient Compensated Capacitors Smaller than 10 Picofarads", *Journal of Research of the National Bureau of Standards - C. Engineering and Instrumentation*, vol. 68C, pp. 305-307 (1964)

Cutkosky, R.D., "Four-terminal-pair Networks as Precision Admittance and Impedance Standards", *Communication and Electronics*, IEEE Transactions, vol. 83, pp. 19-22 (1964)

Cutkosky, R.D., "Techniques for Comparing Four-terminal-pair Admittance Standards", *J. Res. Natl. Bur. Stand. (US) C*, vol. 74, pp. 63-78 (1970)

Cutkosky, R.D., "An Automatic High-precision Audio Frequency Capacitance Bridge", *IEEE Transactions on Instrumentation and Measurement*, vol. 34, pp. 383-389 (1985)



DONNA K. HARMAN

NBS/NIST: 1988-2005

INDUCTED: 2015

B: 6 May 1944, Santa Maria, California

EDUCATION:

Cornell University, BS (Electrical Engineering), 1966

Cornell University, MEE (Electrical Engineering), 1967

CITATION:

For vision, outstanding leadership, and technical excellence in establishing an innovative evaluation infrastructure leading to very significant advancement in the state-of-the-art in information retrieval and natural language processing.

POSITIONS HELD AT NBS/NIST:

Computer Scientist, Information Technology Laboratory (ITL), 1988-1994

Supervisory Computer Scientist, Information Access and User Interfaces Division, ITL, 1994-1995

Group Leader, Retrieval Group, Information Access Division, ITL, 1995-2005

Scientist Emeritus, ITL, 2005-2015

HONORS:

R&D 100 Award (1990)

Tony Kent Strix Award, U.K. Institute of Information Scientists (1999)

NIST Bronze Medal Award (1999)

Conférence en Recherche d'Information et Applications (CORIA 2013) -- proceedings dedicated to Donna Harman (2013)

MEMBERSHIPS:

Association for Computing Machinery (ACM) and ACM's Special Interest Group on Information Retrieval

Association for Computational Linguistics

PUBLICATIONS:

More than 50 publications including:

Harman, D., and Candela, G., "Retrieving Records from a Gigabyte of Text on a Minicomputer using Statistical Ranking", *Journal of the American Society for Information Science*, 41(8), 581-589 (1990)

Harman, Donna, "Relevance Feedback Revisited", *Proceedings of the 15th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, 1-10 (1992)

Harman, Donna, "Overview of the Second Text Retrieval Conference (TREC-2)", *Proceedings of the Workshop on Human Language Technology*, 351-357 (1994)

Voorhees, E., and Harman, D.K., (editors), *TREC: Experiment and Evaluation in Information Retrieval*, MIT Press (2005)

Harman, D.K., "Information Retrieval Evaluation", *Synthesis Lectures on Information Concepts, Retrieval, and Services Series*, Morgan & Claypool Publishers (2011)



MICHAEL J. KURYLO

NBS/NIST: 1969-2003

INDUCTED: 2015

B: 20 July 1945, Meriden, Connecticut

EDUCATION:

Boston College, BS (Chemistry), 1966

Catholic University of America, PhD (Physical Chemistry), 1969

CITATION:

For leadership in the measurement and critical evaluation of gas phase kinetics, photochemical, and spectroscopic data of trace atmospheric chemical species related to the ozone layer and environmental change.

POSITIONS HELD AT NBS/NIST:

National Research Council Postdoctoral Associate, NBS, 1969-1971

Research Chemist, Chemical Science and Technology Laboratory, 1971-2003

NIST detail to NASA, Manager of NASA's Upper Atmosphere Research Program, 1987-2003

Guest Researcher, Physical and Chemical Properties Division, Chemical Science and Technology Laboratory and Chemical Sciences Division, Materials Measurement Laboratory, 2004-present

HONORS:

NBS, Bronze Medal (1983) and U.S. Department of Commerce Silver Medal (1991)

NASA Group Achievement Award (16 awards spanning 1991-2009)

United Nations Environment Programme Certificate of Recognition (1995 and 1999)

Catholic University Alumni Achievement Award in the Field of Science (1996)

NASA Exceptional Service Medal (1996 and 2008)

National Oceanic and Atmospheric Administration Environmental Hero Award (2000)

U.S. Environmental Protection Agency Stratospheric Ozone Protection Award (2008)

Hildebrand Prize, Chemical Society of Washington/American Chemical Society (2009)

Montreal Protocol Who's Who Listing (2009)

MEMBERSHIPS:

American Chemical Society

American Geophysical Union

American Physical Society

Sigma Xi

PUBLICATIONS:

More than 160 publications including:

Kurylo, M.J. and Braun, W., "Flash Photolysis Resonance Fluorescence Study of the Cl + O₃ Reaction Over the Temperature Range 213-298 K", *Chem. Phys. Lett.* 37, 232-235 (1976)

Kurylo, M.J., "The Chemistry of Stratospheric Ozone: Its Response to Natural and Anthropogenic Influences", *Int. J. Refrig.* 13, 62-72 (1990)

Orkin, V.L., Villenave, E., Huie, R.E., and Kurylo, M.J., "Atmospheric Lifetimes and Global Warming Potentials of Hydrofluoroethers: Reactivity towards OH, UV Spectra, and IR Absorption Cross-Sections", *J. Phys. Chem.* 103, 9770 (1999)

Kurylo, M.J., and Orkin, V.L., "Determination of Atmospheric Lifetimes via the Measurement of OH Radical Kinetics", *Chemical Reviews*, 103, 5049-5076 (2003)

Ravishankara, A.R., Kurylo, M.J., and Ennis, C.A. (eds.), "Trends in Emissions of Ozone-Depleting Substances, Ozone Layer Recovery, and Implications for Ultraviolet Radiation Exposure", *A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research* (CCSP, Department of Commerce, NOAA's National Climatic Data Center, Asheville, NC, 240 pp. (2008)

Burkholder, J.B., Mellouki, W., Fleming, E.L., George, C., Heard, D.E., Jackman, C.H., Kurylo, M.J., Orkin, V.L., and Wallington, T.J., "Evaluation of Atmospheric Loss Process", Chapter 3 in *Stratospheric Ozone-Depleting Substances, Their Replacements, and Related Species*, SPARC Report No. 6, (2013)

BARBARA C. LIPPIATT

NBS/NIST: 1977-2013

INDUCTED: 2015

B: 29 May 1957, Baltimore, Maryland

EDUCATION:

Hood College, BA (Economics), 1979

American University, MA (Economics), 1982

CITATION:

For innovation and leadership in conceiving, developing, and implementing metrics and tools for sustainable buildings.



POSITIONS HELD AT NBS/NIST:

Economist, Building Economics Section, Center for Building Technology, 1977-1980

Economist, Applied Economics Group, Center for Applied Mathematics, 1981-1994

Economist, Office of Applied Economics, Building and Fire Research Laboratory (BFRL), 1995-2002

Program Analyst, Program Office, 2003

Senior Program Analyst, Program Office, 2004

Economist, Office of Applied Economics, BFRL, 2005-2010

Economist, Applied Economics Office, Engineering Laboratory, 2011-2013

HONORS:

BFRL Communication Award (1998)

U.S. Department of Commerce Silver Medal (2003)

U.S. Department of Energy & U.S. Department of Commerce Energy Champion Award/Innovator Category (2006)

Presidential Award/Green Innovation Category, White House (2010)

Lifetime Achievement Award, American Center for Life Cycle Assessment (2011)

William P. Slichter Award (2012)

Lead author, measurement science chapter, National Science and Technology Council's "Federal R&D Agenda for Net-Zero Energy, High-Performance Green Buildings"

Represented NIST Director on Federal Biomass Research R&D Committee

MEMBERSHIPS:

American Center for Life Cycle Assessment

Vice Chair, American Society of Civil Engineer's initiative on Practices, Education, and Research for Sustainable Infrastructure

PUBLICATIONS:

More than 40 publications and eight software products including:

Lippiatt, B., "BEES: Balancing Environmental and Economic Performance", *The Construction Specifier*, Vol. 51, No. 4, 35-42 (April 1998)

Lippiatt, B., and Boyles, A., "Using BEES to Select Cost-Effective Green Products", *The International Journal of Life Cycle Assessment*, 76-80 (March 2001)

Gloria, T., Lippiatt, B., and Cooper, J., "Life Cycle Impact Assessment Weights to Support Environmentally Preferable Purchasing in the United States", *Environmental Science and Technology*, Vol. 41, No 21, 7551-7557 (October 2007)

Lippiatt, B., et al., *Metrics to Support Informed Decision Making for Consumers of Biobased Products*, USDA Agricultural Economics Report series, Washington, DC (2008)

Lippiatt, B., Greig, A., and Lavappa, P., *BEES Online: Life Cycle Analysis for Building Products*, accessible at <http://ws680.nist.gov/bees/>, National Institute of Standards and Technology (September 2010)

Lippiatt, B., "Science-Based Metrics for Product Sustainability Assessment", *Treatise on Sustainability Science and Engineering*, New York, NY: Springer, 127-138 (2013)

FRANCIS J. LOVAS

NBS/NIST: 1970-2000
INDUCTED: 2015



B: 29 July 1941, Cleveland, Ohio

EDUCATION:

University of Detroit, BS (Professional Chemistry), 1963
University of California, Berkeley, PhD (Physical Chemistry), 1967
NATO Postdoctoral Fellowship, Freie Universität Berlin, Germany, 1968-1969
Deutsche Forschungsgemeinschaft Fellowship, Freie Universität Berlin, Germany, 1969-1970

CITATION:

For outstanding contributions to microwave molecular spectroscopy and data and their application to molecular structure, inter and intramolecular forces, and interstellar chemistry.

POSITIONS HELD AT NBS/NIST:

National Research Council Postdoctoral Associate, NBS, 1970-1972
Research Chemist, Molecular Spectroscopy Section, Optical Physics Division, Institute for Basic Standards 1972-1977
Research Chemist, Molecular Spectroscopy Division, Center for Thermodynamics and Molecular Sciences, 1978-1989
Research Chemist, Molecular Physics Division, Physics Laboratory, 1990-1996
Research Chemist, Optical Technology Division, Physics Laboratory, 1996-2000
Scientist Emeritus and Guest Researcher, Sensor Science Division, Physical Measurement Laboratory, 2000-Present

HONORS:

U.S. Department of Commerce Gold Medal (1977)
NBS Special Act Award (1985)
Fellow, American Physical Society (1983)
George van Biesbroeck Prize from the American Astronomical Society (1998)

MEMBERSHIPS:

International Astronomical Union
American Physical Society
Sigma Xi

PUBLICATIONS:

More than 260 publications including:

Suenram, R.D., and Lovas, F.J., "Millimeter Wave Spectrum of Glycine", *Journal of Molecular Spectroscopy* 72, 372-382 (1978)
Lovas, F.J., and Suenram, R.D., "Pulsed-beam Fourier-transform Microwave Measurements on OCS and Rare-gas Complexes of OCS with Ne, Ar, and Kr", *Journal of Chemical Physics* 87, 2010-2020 (1987)
Coudert, L.H., Lovas, F.J., Suenram, R.D., and Hougen, J.T., "New Measurements of Microwave Transitions in the Water Dimer", *Journal of Chemical Physics* 87, 6290-6299 (1987)
Hollis, J.M., Lovas, F.J., and Jewell, P.R., "Interstellar Glycolaldehyde: The First Sugar", *Astrophysical Journal* 540, L107-L110 (2000)
Lovas, F.J., "NIST Recommended Rest Frequencies for Observed Interstellar Molecular Microwave Transitions - 2002 Revision", *Journal of Physical and Chemical Reference Data* 33, 177-365 (2004)
Lovas, F.J., Lide, Jr., D.R., Suenram, R.D., and Johnson, D.R., "Evolution of Microwave Spectroscopy at the National Bureau of Standards (NBS) and the National Institute of Standards and Technology (NIST)", *J. Res. NIST* 117, 268-296 (2012)

E. CLAYTON TEAGUE

NBS/NIST: 1972-2011

INDUCTED: 2015



B: 19 January 1941, Trion, Georgia

EDUCATION:

Georgia Institute of Technology, BS (Physics), 1961,
Georgia Institute of Technology, MS (Physics), 1964
University of North Texas, PhD (Physics), 1978

CITATION:

For outstanding scientific leadership and advancement in scanning probe microscopy, nanoscale science and metrology, precision engineering, and surface microtopography measurement, leading to new measurement science, standards, and fields of research.

POSITIONS HELD AT NBS/NIST:

Research Scientist, Mechanical Processes Division, Center for Mechanical Engineering, 1972-1986
Leader, Micrometrology Group, Precision Engineering Division, Manufacturing Engineering Laboratory (MEL), 1986-1994
Leader, Nanometrology Group, Precision Engineering Division, MEL, 1994-1999
Chief, Manufacturing Metrology Division, MEL, 1999-2003
Director, U.S. National Nanotechnology Coordination Office, U.S. National Science and Technology Council, Executive Office of the President, (Detail from NIST's Engineering Laboratory), 2003-2011

HONORS:

IR-100 Industrial Research and Development Award, jointly with F. Scire (1978)
U.S. Department of Commerce Silver Medal (1981); Gold Medal (1995)
NIST Astin Measurement Science Award (1995)
Kilby International Award by Kilby Awards Foundation (1996)
Fellow, UK Institute of Physics with granted title of Chartered Physicist (1999)
Nano Science and Technology Institute Award (2006)
Lifetime Achievement Award, American Society for Precision Engineering (2007)
Lifetime Achievement Award, European Society for Precision Engineering and Nanotechnology - euspen (2008)
ANSI Chairman's Award (2011)

MEMBERSHIPS:

American Society for Precision Engineering (ASPE)
American Association for the Advancement of Science (AAAS)

PUBLICATIONS:

More than 125 publications and four patents including:
Teague, E.C., *Evaluation, Revision, and Application of the NBS Stylus/Computer System for Measurement of Surface Roughness*, NBS Technical Note 902 (April 1976)
Teague, E.C., "Uncertainties in Calibrating a Stylus Type Surface Texture Measuring Instrument with an Interferometrically Measured Step", *Metrologia*, 14: 39-41 (1978)
Teague, E.C., and Scire, F.E., "Flexure Hinge", Patent No. 4,559,717 (1985)
Teague, E.C., "Room Temperature Gold-Vacuum-Gold Tunneling Experiments", *Journal of Research of the National Bureau of Standards*, vol. 91, pp. 171-233 (1986)
Teague, E.C., "The NIST Molecular Measuring Machine Project: Metrology and Precision Engineering Design", *J. Vac. Sci. and Tech. B*, 7: 1898-1902 (1989)
Teague, E.C. "Feynman's Challenge: Building Things from Atoms – One by One," Proceedings of the euspen International Conference – Zurich, Switzerland (May 2008)

NIST GALLERY of Distinguished Scientists, Engineers, and Administrators - 2015

Name, Tenure, Year Inducted into Gallery

Abramowitz, Milton	1938-1958	1995
Achenbach, Paul R.	1937-1979	1995
Albus, James S.	1973-2008	2009
Alexander, Samuel N.	1946-1967	1988
Allan, David W.	1960-1992	1995
Appel, William D.	1922-1959	N/A
Armstrong, George T.	1951-1982	2002
Bailey, Dana K.	1947-1955 & 1959-1965	2003
Barbrow, Louis E.	1921-1969	1988
Barnes, James A.	1957-1983	1995
Bates, Phaon H.	1910-1945	2006
Bates, Roger	1939-1969	1988
Baum, Howard	1975-2006	2007
Bay, Zoltan L.	1955-1972	2006
Bean, Howard S.	1917-1958	2007
Beatty, Robert W.	1948-1974	2001
Beckett, Charles	1950-1976	N/A
Bennett, John A.	1936-1976	1995
Bennett, Lawrence	1958-1996	2000
Berger, Martin J.	1952-1988	2001
Berger, Patricia W.	1976-1978 & 1979-1992	2006
Berquist, James	1978-2013	2013
Bertocci, Ugo	1971-1992	2013
Birmingham, Bascom W.	1951-1982	1988
Birnbaum, George	1946-1956 & 1975-1995	2000
Blum, William	1909-1952	1988
Boettinger, William	1972-2011	2012
Brady, Edward L.	1963-1987	1988
Branstad, Dennis K.	1973-1994	2002
Brenner, Abner	1930-1971	1988
Brickwedde, Ferdinand G.	1925-1956	1988
Brode, Wallace R.	1923-1928 & 1947-1958	1988
Broida, Herbert P.	1949-1963	1988
Brombacher, William G.	1922-1954	1988
Brown, Frederick W.	1954-1962	1988
Buckingham, Edgar	1906-1937	2006
Buntin-Mines, Elaine	1968-1997	2010
Burrows, James H.	1979-1995	1999
Cage, Marvin E.	1976-2005	2014
Cahn, John W.	1977-2006	2007
Cali, J. Paul	1966-1978	1995
Cameron, Joseph M.	1947-1977	2002
Carpenter, B. Stephen	1964-2005	2007
Carpenter, Robert J.	1955-1992	1999
Carr, Kevin	1989-2005	2014
Carter, Robert S.	1958-1989	2003
Cassidy, Esther C.	1955-1997	1999
Caswell, Randall S.	1952-1994	1999
Cezairliyan, Ared	1963-1997	2015
Clark, Alan F.	1964-2004	2011
Coblentz, William W.	1905-1944	1988
Colvin, Burton H.	1972-1991	2002

Name, Tenure, Year Inducted into Gallery

Cook, Richard K.	1935-1966 & 1971-1976	2006
Costrell, Louis	1946-1987	2006
Crittenden, Eugene C.	1909-1950	1988
Croarkin, M. Carroll	1955-1963 & 1973-2000	2013
Cullen, William C.	1948-1981	2002
Currie, Lloyd A.	1962-2000	2004
Curtis, Harvey L.	1907-1946	1988
Curtiss, John H.	1946-1953	1988
Curtiss, Leon F.	1926-1961	2003
Cutkosky, Robert D.	1955-1991	2015
Day, Gordon W.	1969-2003	2004
Dellinger, J. Howard	1907-1948	1988
Deprit, Andre	1979-2003	2007
Deslattes, Richard D.	1962-2001	2002
Diamond, Harry	1927-1948	1988
Didion, David A.	1960-1962 & 1971-2002	2007
Digges, Thomas G.	1920-1962	1998
DiMarzio, Edmund A.	1963-1998	2004
Dorsey, N. Ernest	1903-1920 & 1928-1943	1988
Dowd, Ellen	1967-1973 & 1980-2006	2010
Dryden, Hugh L.	1918-1947	1988
Dunfee, Bernadine	1943-1976	2002
Dunmore, Francis W.	1918-1949	1988
Dunn, Gordon	1961-2002	2010
Durst, Richard A.	1963-1990	2009
Dziuba, Ronald F.	1961-2000	2007
Eberhardt, Keith	1978-2000	2009
Eby, Ronald K.	1963-1984	2003
Edmonds, Jack R.	1959-1969	2014
Egelhoff, William F.	1979-2010	2011
Eisenhart, Churchill	1946-1983	1988
Ekin, John (Jack)	1973-2007	2013
Engen, Glenn F.	1954-1986	2001
Evenson, Kenneth M.	1963-2001	2002
Fano, Ugo	1946-1966	1988
Fickett, Frederick R.	1967-2003	2007
Fields, Richard J.	1977-2004	2009
Fischer, Louis A.	1901-1921	1988
Fletcher, Donald G.	1951-1985	2002
Foote, Paul D.	1911-1927	1988
Franzen, Douglas L.	1970-1997	1999
Frederikse, Hans P.R.	1953-1996	2006
French, Judson C.	1948-1999	2001
Frohnsdorff, Geoffrey J.	1973-2002	2005
Furlani, Cita	1981-2012	2013
Furukawa, George T.	1948-1985	2003
Gadzuk, J. William	1968-2008	2009
Gann, Richard	1976-2012	2013
Gardner, Irvine C.	1921-1959	1988
Gary, Thomas A.	1962-2000	2005
Gibson, Kasson	1916-1955	N/A

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Name, Tenure, Year Inducted into Gallery

Glinka, Charles	1975-2007	2012
Green, Melville	1954-1968	2010
Greenspan, Martin	1935-1974	2000
Hall, John L.	1961-2004	2005
Hamer, Walter J.	1935-1970	1988
Hamilton, Clark A.	1971-1999	2004
Han, Charles C.	1974-2002	2004
Handwerker, Carol A.	1984-2005	2006
Harman, Donna K.	1988-2005	2015
Harman, George G.	1950-2003	2004
Harris, Forest K.	1925-1971	1988
Harris, Milton	1931-1944	1988
Harris, Richard E.	1975-2006	2008
Haynes, William M.	1970-2003	2005
Hayward, Evans	1950-1990	1995
Hayward, Raymond	1950-1986	N/A
Hebner, Robert E.	1972-1999	2004
Heinrich, Kurt F. J.	1964-1988	2008
Hermach, Francis L.	1939-1976	2001
Hertz, Harry S.	1973-2013	2014
Heydemann, Peter L. M.	1964-2001	2004
Heyl, Paul R.	1920-1942	1988
Heyman, Matthew	1978-2008	2010
Hill, James E.	1972-2007	2008
Hillebrand, William F.	1908-1925	1988
Hilsenrath, Joseph	1948-1974	2003
Hines, Verna Brown	1975-2006	2011
Hinman, Wilbur S.	1928-1953	1988
Hoer, Cletus A.	1956-1989	2001
Hoffman, James I.	1918-1962	1988
Hoffman, John D.	1954-1982	1988
Hord, Jesse L.	1961-1992	2003
Horlick, Jeffrey	1967-2006	2014
Horowitz, Emanuel	1951-1980	1988
Hougen, Jon T.	1967-2002	2003
Hudson, Ralph P.	1951-1980	1988
Huntoon, Robert D.	1941-1968	1988
Ingberg, Simon H.	1914-1947	1988
Isbell, Horace S.	1927-1968	1988
Jacox, Marilyn E.	1962-1995	2000
Jennings, Donald A.	1961-1991	2001
Johnson, Donald R.	1967-1993	2008
Johnson, Victor J.	1950-1972	1995
Jones, Sarah A.	1920-1966	1988
Judd, Deane B.	1927-1970	1988
Judson, Lewis V.	1917-1962	N/A
Julienne, Paul S.	1969-1973 & 1974-2013	2014
Kamper, Robert A.	1963-1994	1999
Kashiwagi, Takashi	1971-2001	2005
Katzke, Stuart	1975-1999 & 2001-2008	2013
Kautz, Richard	1976-1997	1999
Kerns, David M.	1946-1980	2001
Kessler, Karl G.	1948-1990	1999
Kim, Yong-Ki	1983-2006	2008

Name, Tenure, Year Inducted into Gallery

Kirby, Richard C.	1948-1950 & 1951-1965	2003
Kirsch, Russell A.	1951-1985	2006
Klebanoff, Philip S.	1941-1985	1995
Kline, Gordon M.	1929-1963	1988
Koch, H. William	1949-1966	1988
Kostkowski, Henry J.	1954-1981	2001
Kramer, Samuel	1970-1997	1999
Krauss, Morris	1955-2004	2004
Kruger, Jerome	1955-1984	1998
Ku, Hsien (Harry)	1959-1985	2002
Kurylo, Michael J.	1969-2003	2015
Kushner, Lawrence	1946-1973	1988
Kusuda, Tamami	1962-1986	1998
Kuyatt, Chris E.	1960-1998	1999
Lafferty, Walter J.	1961-1995	2014
Lanczos, Cornelius	1943-1944 & 1949-1952	2010
Landon, Harry H.	1958-1972	2003
Lawn, Brian	1982-2009	2012
Leiss, James E.	1954-1986	2007
Levelt Sengers, Johanna M.H.	1963-1995	2000
Lias, Sharon G.	1956-2001	2005
Lide, David R.	1954-1988	1999
Lindstrom, Richard	1972-2007	2012
Lippiatt, Barbara C.	1977-2013	2015
Little, C. Gordon	1958-1965	2003
Lloyd, Frances L.	1977-1989	2009
Long, Gabrielle G.	1965-1967 & 1980-2003	2014
Lovas, Francis J.	1970-2000	2015
Lowell, Percival D.	1913-1924 & 1941-1962	1988
Lyons, Harold	1941-1955	1988
Madden, Robert	1961-1998	2000
Madey, Theodore E.	1963-1988	2003
Mandel, John	1947-2000	2002
Mann, Wilfred B.	1951-1980	1995
Marshall, Richard D.	1968-1996	2001
Martin, William C.	1957-1998	2002
Martinis, John M.	1987-2004	2008
Marton, Ladislaus L.	1946-1970	1998
McLaughlin, William L.	1951-1996	2000
McMurdie, Howard F.	1928-1966	1998
McNish, Alvin G.	1920-1925 & 1946-1970	1988
McPherson, Archibald T.	1923-1965	1988
Megggers, William F.	1914-1958	1988
Meinke, W. Wayne	1963-1973	1988
Menzer, James P.	1954-1976	1999
Meyerson, Melvin R.	1946-1978	2001
Milligan, Dolphus E.	1963-1973	1988
Mohler, Fred L.	1917-1960	1988
Moore, Robert F.	1973-2007	2008
Muehlhause, Carl O.	1958-1982	2003
Murphy, Thomas J.	1946-1986	2003

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Natrella, Mary G.	1950-1987	1998
Nelson, Harold E.	1975-1992	2001
Nigro, James P.	1947-1974	1999
Nyssonen, Diana	1969-1985	2008
Odishaw, Hugh G.	1946-1953	1988
Ohlemiller, Thomas J.	1979-2008	2011
Olien, Neil	1961-1991	2007
Olsen, Paul Thomas	1963-1994	2012
Olver, Frank W.J.	1961-1986	2011
Paffenbarger, George C.	1929-1941 & 1946-1984	1988
Page, Chester H.	1941-1974	1988
Parr, Albert C.	1980-2007	2011
Parsons, Douglas E.	1923-1963	1988
Passaglia, Elio	1961-1987	1988
Peiser, H. Steffen	1957-1989	2009
Petersons, Oskars	1968-1994	2000
Pfrang, Edward O.	1966-1983	1995
Pierce, Daniel T.	1975-2007	2008
Plyler, Earle K.	1945-1963	1998
Powell, Cedric	1962-2006	2010
Priest, Irwin G.	1907-1932	N/A
Rabinow, Jacob	1934-1953 & 1972-1989	1988
Raby, Tawfik M.	1968-2009	2009
Radebaugh, Ray	1966-2009	2010
Reed, Richard P.	1956-1990	1995
Reimann, Curt	1962-1995	1999
Roberts, James R.	1964-1999	2003
Robertson, Alexander F.	1950-1981	1999
Romanoff, Melvin	1937-1970	1995
Rosa, Edward B.	1901-1921	1988
Rosenberg, Samuel J.	1920-1964	1998
Rosenblatt, Joan	1955-1995	2000
Rosenstock, Henry	1960-1982	N/A
Rossini, Frederick D.	1928-1950	1988
Roth, Robert S.	1951-1991	2000
Rowe, J. Michael	1973-2004	2006
Rubin, Michael Rogers	1988-2009	2011
Ruegg, Rosalie T.	1970-2000	2005
Rush, John J.	1962-2004	2006
Saylor, Charles P.	1931-1968	1988
Schaffer, Robert	1950-1988	2001
Schooley, James	1960-1990	2010
Schoonover, Irl C.	1928-1930 & 1935-1969	1988
Schubauer, Galen B.	1929-1968	1995
Schwartz, Lyle	1984-1997	2010
Scott, Russell B.	1928-1965	1988
Seltzer, Stephen	1962-2010	2012
Semerjian, Hratch G.	1977-2007	2008
Silsbee, Francis B.	1911-1959	1988
Simpson, John A.	1948-1993	1999
Sitterly, Charlotte E. Moore	1945-1968	1988
Skillington, Jr., James	1960-1977	1999

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Smid, Miles E.	1978-1999	2005
Smith, Ernest K.	1951-1965	2003
Snell, Jack E.	1971-2003	2005
Snyder, Wilbert F.	1927-1969	1995
Sorrows, Howard E.	1941-1952 & 1956-1987	1988
Souder, Wilmer	1910-1913 & 1917-1954	1988
Stegun, Irene A.	1943-1983	1995
Stephenson, John C.	1971-2005	2009
Stiehler, Robert D.	1946-1981	2002
Stimson, Harold F.	1916-1960	1988
Sullivan, Donald B.	1967-2003	2004
Talbot, Terri	1972-2011	2012
Taussky-Todd, Olga	1947-1957	2002
Taylor, Barry N.	1970-2001	2003
Taylor, John K.	1929-1986	1988
Taylor, Lauriston S.	1927-1964	1988
Teague, E. Clayton	1972-2011	2015
Teal, Gordon K.	1965-1967	N/A
Thomas, James L.	1927-1962	2003
Thomas, Richard N.	1957-1973	2011
Thomson, Robb	1971-1995	2000
Tilford, Charles R.	1970-2000	2014
Tilley, W. Reeves	1946-1980	1995
Todd, John	1947-1957	2002
Tuckerman, Louis B.	1919-1949	1988
Uriano, George A.	1961-1995	1999
Van Brunt, Richard J.	1978-1996	2003
Vinal, George W.	1904-1950	1988
Wachtman, Jr., John. B.	1951-1983	1988
Waidner, Charles W.	1901-1922	N/A
Wait, James R.	1955-1980	1995
Walleigh, Robert. S.	1943-1953 & 1957-1978	1988
Washburn, Edward W.	1926-1934	1988
Wegstein, Joseph H.	1951-1984	1995
West, E. Dale	1948-1974	2002
Wichers, Edward	1917-1963	1988
Wiederhorn, Sheldon	1963-2008	2011
Wiese, Wolfgang L.	1960-2004	2005
Wildhack, William A.	1935-1969	1988
Willenbrock, F. Karl	1970-1976	N/A
Williams, Edwin Ross	1971-2008	2011
Wolff, Frank A.	1901-1941	1988
Wright, James R.	1960-1985	1999
Wright, Richard N.	1971-1999	2002
Wu, Wen-li	1979-2013	2013
Yates, Jr., John T.	1963-1982	2003
Youden, William J.	1948-1965	1988
Young, Russell D.	1961-1981	1988
Zimmerman, James E.	1970-1985	2001



Portrait Gallery photographs in the alcove before the transition to the Digital Portrait Gallery. Most portraits have been moved to the other side of the hall. In the alcove currently is a touch screen digital display.



NIST Gaithersburg, Maryland



Advanced Chemical Sciences Laboratory



Advanced Measurement Laboratory

