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DR. THOMAS J. MEYER
AREY DISTINGUISHED PROFESSOR OF CHEMISTRY,
AUGUST 2010

EDUCATION

- B. S. (1963) Ohio University (1959 -1963)
- Ph.D. (1966) Stanford University (1963 -1966)

PROFESSIONAL EXPERIENCE

- Woodrow Wilson Graduate Fellowship, Stanford University (1963-1964)
- NSF Graduate Fellowship, Stanford University (1965-1966)
- NATO Postdoctoral Research Fellow, University College, London (1967)
- Assistant Professor of Chemistry, University of North Carolina (1968-1972)
- Associate Professor of Chemistry, University of North Carolina (1972-1975)
- Professor of Chemistry, University of North Carolina (1975-1982)
- M. A. Smith Professor of Chemistry, University of North Carolina (1982-1987)
- Chairman, University of North Carolina, Department of Chemistry (1985-1990)
- Kenan Professor of Chemistry, University of North Carolina (1987-1999)
- Chairman of the Curriculum in Applied Sciences, University of North Carolina (1991-1994)
- Adjunct Professor, Curriculum in Applied Sciences, University of North Carolina (1994-1999)
- Dean of the Graduate School, University of North Carolina (1994-1996).
- Vice Chancellor/Vice Provost for Graduate Studies and Research, University of North Carolina (1994-1999)
- Adjunct Professor, Department of Chemistry, University of Utah (2000-2005).
- Associate Laboratory Director for Strategic and Supporting Research, Los Alamos National Laboratory (2000-2001)
- Associate Director for Strategic Research, Los Alamos National Laboratory (2001-2004)
- Senior Consultant, University of California (2005)
- Arey Distinguished Professor of Chemistry, University of North Carolina at Chapel Hill (2005-present)
- Director UNC Energy Frontier Research Center (2009-)

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

- American Chemical Society
- American Association of University Professors
- American Association for the Advancement of Science
- Materials Research Society
- Over a period of 30 years, consultant for Du Pont Central Research, Allied Signal, IBM, Monsanto, Dow Chemical, 3-M, Rohm and Haas, Occidental Petroleum, Hyperion, Igen, and others.
- Executive Committee, Division of Inorganic Chemistry, American Chemical Society (Chair 1994)
- Board of Editors, *Journal of the American Chemical Society* (1983-1987)
- Board of Editors, *Inorganic Chemistry* (1983-1987)
- Office of Energy Resources SERI Review Committee, Department of Energy (1986-1988, Chair 1987-1988)
- Review Committee, University of Chicago, Argonne National Laboratory (1987-1995; Chair 1992-1994)
- External Advisory Board, University of Rochester Center for Photoinduced Charge Transfer (1990-1994; Chair 1990-1994)
- Board of Editors, *Accounts of Chemical Research* (1991-1996)
- Board of Directors, Triangle Universities Licensing Consortium (1989-1995; Chairman/Treasurer 1993-1995)
- Associated Universities, Inc. Visiting Committee, Brookhaven National Laboratory (1990-1994; Chair 1992-1994)
- Planning Committee for the Center for the Study of the American South, University of North Carolina (1993-1994)
- Canvassing Committee for the American Chemical Society Award for Distinguished Service in the Advancement of Inorganic Chemistry (1993-1996)
- External Review Committee, Princeton Materials Institute, Princeton University (1994)
- Board of Directors, North Carolina Biotechnology Center, Research Triangle Park, North Carolina (1994-1999)
- Administrative Board, Center for the Study of the American South, University of North Carolina (1994-1999)
- Advisory Board, North Carolina Alliance for Competitive Technologies, Research Triangle Park, North Carolina (1994-1999)
- Board of Directors, Triangle Universities Center for Advanced Studies, Inc., Research Triangle Park, North Carolina (1994-1999)
- Advisory Board, Policy Advisory Committee, Lineberger Comprehensive Cancer Center, University of North Carolina (1995-1999)
- Carolina Speakers Bureau (1995-1999)
- Board of Directors, Research Triangle Institute (1995-1999)
- Board of Directors, North Carolina Board of Science and Technology (1995-1999)
- Board of Directors, Associated Universities, Inc. (1995-1997)
- Board of Editors, *Structure and Bonding* (1997-present)
- Joint Board-Council Committee on Chemistry and Public Affairs, American Chemical Society, (1998-2002)

- Board of Editors, *Journal of Photochemistry and Photobiology A.- Chem* (1998-present)
- National Research Council Board on Chemical Sciences and Technology (1998-2003)
- Board of Directors, Mind Institute (2000-2004)
- Board of Directors, New Mexico Manufacturing Extension Partnership (2001-2002)
- Advisor to the Southern Governors' Association on Research, Development, and Technology (2001)
- Chair, 2002 Los Alamos New Mexico United Way Campaign
- Board of Directors, National Infrastructure and Simulation Analysis Center (NISAC with Sandia National Laboratory- 2001-2002)
- Board of Directors, Coronado Ventures Forum (2001-2005)
- Board of Directors, National Center for Genome Research (2002-2005)
- Board of Directors, International Informatics Society (2002-2005)
- Science and Technology External Advisory Board, Sandia National Laboratory (2002-2006)
- Co-Editor (with Professor Jon McCleverty) of "Comprehensive Coordination Chemistry II", Vol 1-10, Elsevier, 2004.
- New Mexico State Commission on Higher Education (2003-2005)
- Graduate Education Advisory Board- UNC-CH (2005-2007)
- Board of Editors, *Inorganic Chemistry* (2005-present)
- Co-Editor (with Professors Jeff Reimers and Jens Ulstrup) of special edition of "Chemical Physics" ([Volume 324, Issue 1](#)) in honor of Professor N.S. Hush, 2005.
- Research Triangle Institute- Energy Executive Team (with UNC-CH, Duke, NCSU U, RTI)- (2006-2007)
- Executive Committee- Research Triangle Energy Consortium (with UNC-CH, Duke, NCSU, RTI) – RTEC, (2008-)
- Chair, Scientific Advisory Board, Center for Revolutionary Solar Photoconversion,, Colorado Renewable Energy Collaboratory (2008-)

MANAGERIAL ACTIVITIES AND ACCOMPLISHMENTS

LOS ALAMOS NATIONAL LABORATORY (2000-2005)

Associate Director for Strategic Research (SR)

Managerial oversight for 2000 employees and a budget of over \$ 400 M annually:

- Four technical divisions- Chemistry, Materials Science and Technology, Energy and Environmental Science, and Theory and two support divisions- Technology Transfer, Science and Technology Base programs
- Program Offices- Department of Energy (DOE): Offices of Science, Fossil Energy, Nuclear Energy Science and Technology, Energy Efficiency and Renewables, Civilian Radioactive Waste Management, congressional liaison for Senate and House Science and Water and Energy appropriations subcommittees.
- Managerial oversight- LANL Energy and Environment Initiative, National High Field Magnetic Laboratory, Center for Integrated Nano Technology (CINT- with Sandia National Laboratory), Lujan Neutron Science Center, Energy and Environment Council, Nuclear Technology Applications, Advanced Nuclear Fuel Cycle Initiative, LANL Fuel Cell Center, Hydrogen Storage Center, Superconductivity Resource Center.
- Managerial oversight- University Relations. Postdoctoral and Student Programs, LANL library, Laboratory Director Research and Development (LDRD) research funding (\$110 M in 2004).
- Managerial oversight- LANL activities at the Waste Isolation Pilot Plant (WIPP) in Carlsbad, NM and Yucca Mountain, Nevada.
- LANL Technical Transfer activities and joint economic development activities with the State of New Mexico.
- LANL representative- Los Alamos Mainstreet Initiative for urban revitalization, Chair of the 2002 Los Alamos United Way campaign.

Led National and LANL planning efforts :

- National Nuclear National Laboratory Consortium (ANL, INEEL, LANL, LLNL, ORNL, SNL) for the Advanced (Nuclear) Fuel Cycle Initiative which led to the Global Nuclear Energy Partnership at DOE and was a major contributor to the rebirth in interest in nuclear energy in the US.
- With Fossil Energy at DOE- R&D in carbon management and carbon dioxide sequestration in collaboration with Pacific Northwest National Laboratory (PNNL), National Energy Technology Laboratory (NETL), and Montana State University in creating the Zero Emissions Repository Technology Center.
- LANL planning for- Science Complex, Center for Integrated Nano Technology, Hydrogen Storage Center, Energy and Environment Initiative.

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Vice Chancellor, Vice Provost for Graduate Studies and Research (1994-1999), Dean of the Graduate School (1994)

- Led campus-wide planning efforts- for the UNC-Chapel Hill "Science Complex" and associated campus-wide planning that ultimately led to a \$2.5 billion initiative for infrastructure for the UNC System, the Center for the Study of the American South, UNC-Chapel Hill initiatives in Genomics and Bioinformatics, Arts Carolina; UNC Jazz Festival, and others.

- Enriched graduate education- Reorganized the UNC Graduate School and initiated a major fundraising campaign for graduate student support; led approaches to the NC Legislature that resulted in health insurance for graduate students and an additional \$12 million in graduate tuition support for the UNC system; oversaw the formation of the Royster Society of Fellows.
- Managed and reorganized support of research and research infrastructure- reorganized the Office of Research Services; created the Proposal Development Initiative (Office of Research Development); created the Office of Technology Development, created the Office of Economic Development; led approaches to the UNC Legislature for return of overhead receipts and increased faculty salaries; oversaw a doubling of research grants.

Chair, Applied Sciences Curriculum (1992-1994)

- Led the undergraduate Applied Sciences Curriculum; developed a fundraising effort, created a lecture series and collaborations with industrial partners.
- Led the planning and creation of a graduate degree program in Materials Science.

Chair, Department of Chemistry (1985-1990)

- Led planning and implementation of the UNC Materials Science program and participation of Chemistry in the UNC Program in Molecular Biology and Biotechnology.
- Created Alumni Relations, Fundraising, and Industrial Liaison initiatives; initiated a nationally recognized collaboration with Glaxo including the renovation of Venable Hall.
- Promoted undergraduate education through curriculum reform and innovations in laboratory instruction.

SELECTED HONORS

- Tanner Award for Teaching Excellence, University of North Carolina (1972)
- Kenan Research Leave, University of North Carolina (1974)
- Alfred P. Sloan Fellow (1975 -1977)
- Fellow of the American Association for the Advancement of Science (1981)
- Charles H. Stone Award, Piedmont Section of American Chemical Society (1982)
- Guggenheim Fellowship (1983)
- Pogue Research Leave, University of North Carolina (1983)
- Erskine Fellowship, University of Canterbury, Christchurch, New Zealand (1985)
- Medal of Merit Award, Ohio University Alumni Association, Ohio University (1988)
- Dwyer Medallist, University of New South Wales, Australia (1989)
- ACS Award in Inorganic Chemistry sponsored by Monsanto Company (1990)
- Centenary Medallist, Royal Society of Chemistry (1991)
- Kenan Research Leave, University of North Carolina (spring, 1992)
- Southern Chemist of the Year Award, Memphis Section of ACS (1992)
- North Carolina Distinguished Chemist Award, North Carolina Institute of Chemists, Division of American Institute of Chemists, Inc. (1993)
- American Academy of Arts and Sciences, Cambridge, Massachusetts (1994)
- National Academy of Sciences, Washington, DC (1994)
- Nyholm Award, Royal Australian Chemical Institute, Inorganic Division (1996)
- Inter-American Photochemical Society Award in Photochemistry

- (1997)
- Remsen Award, Maryland Section of the American Chemical Society (1999)
- Order of the Long Leaf Pine, State of North Carolina (1999)
- Basolo Medalist, Northwestern University (1999)
- Jonassen Award, Tulane University (2001)
- ACS Award for Distinguished Service to Inorganic Chemistry (2002)
- Welch Lecturer (2003)
- Research Triangle Institute President's Award (2008)

SCIENTIFIC VISITS AND SPECIAL LECTURESHIIPS

- Visiting Professor, Sydney University (January-June, 1976)
- Visiting Scientist, Xerox-Webster (June-July, 1978)
- Reilly Lecturer, University of Notre Dame (October, 1978)
- 3e Sicle Lecturer en Chimie, University of Bern (May-June, 1980)
- Visiting Scientist, Sandia National Laboratory (Sept.-Oct., 1981)
- J. G. Dick Lecturer, Concordia University, Montreal (November, 1981)
- Lansdowne Scholar, University of Victoria, B.C. (March, 1982)
- Visiting Scientist, Centre d'Etudes Nucleaires de Grenoble (June, July 1983)
- Professeur d'Associe de Chimie, Universite Louis Pasteur de Strasbourg (Sept. - Oct., 1983)
- Professeur d'Associe de Chimie, Universite de Rennes, France (June, 1986)
- Dwyer Lecturer, University of New South Wales, Australia (July, 1989)
- FMC Lecturer, Princeton University (April, 1990)
- Centenary Lecturer, Royal Society of Chemistry (1991)
- Visiting Professor, Department of Chemistry, Universite di Ferrara, Ferrara, Italy (March-April, 1992)
- Visiting Professor, University of Buenos Aires, Buenos Aires, Argentina (June, 1993)
- Inorganic Summer Lecturer, Northwestern University, Evanston, Illinois (June, 1993)
- Swift Lecturer, Department of Chemistry, California Institute of Technology, Pasadena, California (December 5, 1994)
- University Lecturer, Department of Chemistry, Boston College, Chestnut Hill, Massachusetts (March 15-17, 1995)
- Co-Organizer and Lecturer, Henry Taube Symposium, Department of Chemistry, Stanford University, Stanford, California (March 30, 1995)
- Coates Lecturer, Department of Chemistry, University of Wyoming, Laramie, Wyoming (April 26, 1995)
- Lecturer, 28th Jerusalem Symposium on Quantum Chemistry & Biochemistry on Electron Transfer, Israel Academy of Sciences and Humanities, Jerusalem, Israel (May 16, 1995)
- Nyholm Lecturer, Royal Australian Chemical Institute, Inorganic Division, Sydney,

Australia (July, 1996)

- DuPont Lecturer, Department of Chemistry, Indiana University, Bloomington, Indiana (November 6, 1996)
- Inter-American Photochemical Society Award Lecture, [APS Winter Conference, Clearwater Beach, Florida (January 3, 1997)
- Haines Lecturer, Department of Chemistry, University of South Dakota, Vermillion, South Dakota (April 17, 1997)
- Plenary Lecturer, XVII[th International Conference on Photochemistry, Polish Academy of Sciences, University of Warsaw, Warsaw, Poland (August 5, 1997)
- Weissberger-Williams Lecturer, Eastman Kodak Company, Rochester, New York (August 22, 1997)
- Plenary Lecturer, XXII Chilean Chemistry Society Meeting, Pucon, Chile (November 13, 1997)
- Lecturer, III Escola de Verso em Quimica Inorgnica, Federal University of Sao Carlos, Brazil (February 2-13, 1998)
- John van Geuns Lecturer, The University of Amsterdam, Netherlands (May 15, 1998)
- Lecturer, EUCHEM Conference on Artificial Photosynthesis, Sjudarhbjden, Sigtuna, Sweden (May 17, 1998)
- Plenary Lecturer, Fourth Nordic Conference on Photosynthesis, Naantali, Finland (November 28, 1998)
- Keynote Lecturer, 3rd International Symposium of the Volkswagen Foundation on Intra and Intermolecular Electron Transfer, Konstanz, Germany (April 10, 1999)
- Remsen Award Address, Johns Hopkins University, Baltimore, Maryland (May 12, 1999)
- Plenary Lecturer, 13th International Symposium on the Photochemistry and Photophysics of Coordination Compounds, Lipari, Italy (June 30, 1999)
- Basolo Medal Address, Northwestern University, Evanston, Illinois (October 29, 1999)
- Glaxo Lecturer, East Carolina University, Greenville, NC (March 25, 2000)
- Director's Lecturer, Argonne National Laboratory, Argonne, Illinois (August 29, 2001).
- Jonassen Lecturer, Tulane University, New Orleans, Louisiana (December 3, 2001)
- Optics Valley Lecturer, University of Arizona, Tucson, Arizona (March 22, 2002)
- Industry University Consortium Lecturer, Texas A&M University (September 24, 2002)
- Plenary Lecturer, International Symposium on Metal-Metal Interactions in Polynuclear Transition Metal Complexes, Valparaiso, Chile (January 8, 2003)
- Welch Lecturer, Schreiner College, Texas State University- San Marcos, University of Texas-San Antonio (November 3,4, 2003)
- John McDonald Lecturer, McGill University, Montreal, Canada (March 23, 2004).
- Summer Lecturer, University of Colorado at Boulder (August 1 through 5, 2005)
- Hutchison Memorial Lecturer, University of Rochester (October 12-14, 2005)
- Basel Chemical Society Lecturer, University of Basel, Switzerland (June 22, 2007)
- Job Visiting Professor, Memorial University of Newfoundland (July 1-7, 2007)
- Lead Lecturer, German Workshop on Electron Transfer, University of Muenster (Oct

29-Nov 1,2007)

- Distinguished Summer Inorganic Lecturer- Northwestern University (June 3, 2009)
- Key Lecturer- 'Chemical Conversion and Storage of Solar Energy'.- Master Class- Graduate Education programme of Dublin Chemistry and the Dublin Regional Higher Education Alliance (October 20, 2009)
- Frontiers in Chemistry Lecturer- Case Western Reserve University (April 8, 2010).
- ACS presidential symposium lecturer on "Sustainable Energy"- ACS National Meeting in San Francisco, California (March 22, 2010).
- Plenary Lecturer-IUPAC XXXIII – Ferrara, Italy (July 12, 2010)
- Plenary Lecturer – Symposium in honor of David G. Whitten, Albuquerque, NM (August 19, 2010)

GENERAL INTEREST LECTURES

- Dedication Speaker, Center for Nanoscience Innovation for Defense, UC Santa Barbara (August 14, 2002)
- DOE EPSCoR Conference Lecturer, "Challenges and Best Practices for Successful Collaborations", Albuquerque, NM (June 2, 2003).
- Introductory Speaker-, Bridging the Gap Between Science and Society, Rice University in honor of Neal Lane (November 1, 2003)
- L.F.Power Memorial Lecturer, James Cook University, Townsville, Australia (June 28, 2005)
- UNC "What's the Big Idea" Lecturer, (Our Energy Future. What are the Technology Challenges of the Twenty-First Century), UNC-CH (March 2, 2006)
- Seminar Speaker, "Our Energy Future: Science and Technology Challenges in the 21st Century", NC A&T State University, Greensboro, NC (Oct 18, 2007)
- Lecturer in "The Faces of Science" , Duke University, November 13, 2007.
- 2008 PRISM University-Industry Keynote Lecturer, Princeton University, "Our Energy Future. Science and Technology Challenges for the 21st Century (March 17, 2008).
- Panelist for At the Heart of Progress. Coal, Iron, and Steam since 1750", Ackland Art Museum, UNC, "Coal, Iron, and Steam since 1750. What have they wrought?" (January 25, 2009).
- YCEI Lecture – "Our Energy Future: Science and Technology Challenges for the 21st Century"-Yale Climate and Energy Institute, New Haven (April 30, 2010)

PUBLICATIONS AND PATENTS

As of August 2010, 585 publications and 3 patents have appeared from the Meyer Research Group. Relevant and/or significant publications lists are available upon request.

Dr Meyer is one of the most highly cited chemists in the world.

(8/13/2010)