

JOHN H. GIBBONS

POSITIONS:

- 1998 - Former Assistant to the President for Science and Technology (1993 – 1998).
President, Resource Strategies
- 1999 - 2001 **Senior Advisor to the U.S. Department of State.**
Assisted the Secretary in revitalizing science and technology capabilities in the Department, including creating the position of Science Advisor to the Secretary.
- 1999-2000 **Senior Fellow, National Academy of Engineering.** Assisted the NAE President on a variety of topics including a new NAE program in Earth Systems Engineering.
- 1998 – 1999 **Karl T. Compton Lecturer, Massachusetts Institute of Technology.**
- February 2, 1993 - April 3, 1998. **Assistant to the President for Science and Technology, and Director, Office of Science and Technology, Executive Office of the President (also referred to as "Science Advisor to the President."** As the Science Advisor to the President he was the most senior advisor to the President and Vice President on matters of science and technology policy--one of six Cabinet-level, policy-level assistants to the President. As Science Advisor he also co-chaired the President's Committee of Advisors on Science and Technology; was a member of the Domestic Policy Council, the National Economic Council, the National Security Council, and was a member and oversaw the National Science and Technology Council (which also contains the functions of the National Space Council). In general, as Science Advisor, he was responsible for coordinating science and technology policy and budgets across the federal government.
- As the highest-ranking science and technology official in the Administration, he also was responsible for representing the U.S. Government in major multilateral and bilateral commissions. Multilateral meetings of Ministers for Science and Technology occur in the Organization for Cooperation and Development, Asia Pacific Economic Cooperation Forum, Summit of the Americas, and among the G-7 nations. High level bilateral meetings require the science adviser's participation in the U.S.-Russia Joint Commission on Economic and Technological Cooperation, the U.S.-South Africa Binational Commission, the U.S.-Japan Joint High Level Committee, and the U.S.-China Joint Commission.
- June 1979 - January 1993. **Director, Office of Technology Assessment, U.S. Congress.** OTA was a bipartisan agency of the U.S. Congress designed to serve Committees as

their principal source of independent, expert, and comprehensive analysis on issues involving the impacts of science and technology upon society. In particular, OTA provided policy analyses that narrowed technical debates and defined and described the major options before the Congress on a given issue and the implications of each of those options. Subjects ranged over the entire spectrum of technologies that affect, or are affected by, public policy. Established by Congress in 1972, it was abolished by the 104th Congress in 1995.

October 1974 - May 1979. **Director, Energy, Environment, and Resources Center, and Professor of Physics, University of Tennessee.** Directed programs of scientific and policy research and public service in a variety of energy and environmental issues, with emphasis on energy management and efficiency of use and the environmental impacts of energy production and use. Organized cooperative research programs among university, federal laboratories, the State of Tennessee, and the Tennessee Valley Authority.

September 1973 - September 1974. **Director, Federal Office of Energy Conservation.** Initiated and directed overall Federal programs in research, development, and demonstration on energy efficiency, the Federal Energy Management Program, legislative initiatives, conservation policy analysis, and public awareness programs about the value and need for energy conservation.

1969 - 1973. **Director, Environmental Program, Oak Ridge National Laboratory.** Initiated and directed a comprehensive, interdisciplinary program of research on energy demand and conservation, regional environmental systems analysis, and environmental impacts of resource use.

1954 - 1969. **Physicist and Group Leader, Nuclear Geophysics, Oak Ridge National Laboratory (Physics Division).** Directed experimental studies of nuclear reactions, origins of the solar system's heavy elements, and nuclear reactions important in stellar evolution. Spent two sabbaticals working on (1) civil defense/ballistic missile defense, and (2) national laboratory/university relations.

ADVISORY AND WORKING COMMITTEES:

National Academy of Sciences/National Academy of Engineering/National Research Council:

- Chair, NAE Technology and Peacebuilding Steering Committee (2007 - 2008)
- Division Advisor, Division on Physical Sciences and Engineering, NRC (2001 -)
- Special Fields and Interdisciplinary Engineering Peer Committee (2001 -)
- Member, International Advisory Board, Committee on International Programs (2000 -2006).
- Chair, Committee on Improving the Effectiveness of Environmental Nongovernmental Organizations in Russia (2000).
- Committee on Scientific Communication and National Security (2000).
- Greatest Engineering Achievements of the 20th Century Selection Committee

- (1999).
- Panel on Ensuring the Best Presidential Science and Technology Appointments (2000 – 2001).
- Forum on Diversity in the Engineering Workforce (1999 – 2000).
- Committee on Balancing Scientific Openness and National Security (1999 – 2000).
- Charles Stark Draper Prize Committee (1998 – 1999).
- Government-University-Industry Research Roundtable (ex-officio) (1993 – 1998).
- An Energy Agenda for the 1990's Executive Committee (1987 – 1988).
- New Medical Devices: Factors Influencing Innovation, Development and Use (1986 – 1988).
- Steering Committee, NAE Symposium Series on Technology & Society (1984 – 1992).
- Board on Science and Technology in International Development (BOSTID), (1979 - 1987).
- Chairman, Demand/Conservation Panel, Committee on Nuclear and Alternative Energy Systems (CONAES) (1976 - 1979).
- Chairman, Panel on Energy, Natural Resources, and Environment; NAS Study On the U.N. Conference on Science and Technology for Development (1977 - 1978).
- Committee on Measurements on Energy Consumption (1976).

U.S. Congressional Office of Technology Assessment:

- Director (1979 – 1992)
- Chairman, Panel on Residential Energy Conservation Assessment (1977 - 1979).
- Chairman, Panel on the National Energy Plan Policy Analysis (1977).
- Chairman, Control and Abatement Technologies Panel, OTA Review of EPA Five Year R&D Plan (1976).
- Chairman, Conservation Panel, OTA Analysis of the ERDA Plan and Program (1975).

U.S. Department of Energy:

- Idaho National Laboratory Science and Technology Committee (2005 -)
- Lawrence Livermore National Laboratory Consultant (2002 -)
- National Renewable Energy Laboratory, Council of Advisers (1998 - 2009).
- Energy Research Advisory Board (1978 - 1979).
- Chairman, Advisory Committee, Energy and Environmental Systems Division, Argonne National Laboratory (1977 - 1979).
- Advisory Committee, National Center for Analysis of Energy Systems, Brookhaven National Laboratory (1976 - 1978; Chairman, 1977).
- U.S. Atomic Energy Commission, Advisory Committee on Neutron Cross Sections (1969 - 1970).

Other Advisory and Working Groups:

- Member, Ad Hoc Advisory Group – Council on Foreign Relations (May-June 2008)
- Member, Governor’s Commission on Climate Change, Commonwealth of Virginia (2008 -)
- Member, Agenda 2008 (bipartisan) Study Group on Presidential Science and Technology Assets. Center for the Study of the Presidency. (2007-2008)
- Member, Advisory Board, *Science Progress*, journal of science, technology, and human values. The Center for American Progress (Fall 2007 -)
- Member, Advisory Council, Environmental Studies on the Piedmont (formerly Environmental Studies at Airlie Foundation) (2006 - 2008)
- Member, Advisory Board, Scientists and Engineers for America (2006 -)
- MIT Journal *Innovations: Technology/Governance/Globalization*, Advisory Board (2005 -)
- Gas Technology Institute, Strategic Advisory Committee (2003 - 2006)
- MIT/Alliance for Global Sustainability, Center for Environmental Initiatives, Advisory Committee (2001 -)
- MIT – Corporation Visiting Committee for the Department of Earth, Atmospheric, and Planetary Sciences (2000 -)
- Vanderbilt University – Advisory Committee, Department of Civil and Environmental Engineering (2001 - 2002)
- Eisenhower World Affairs Institute, Senior Advisory Panel on “Ten Years Later: Assessing U.S. Russian Engagement in Space” (2002 - 2003)
- Strategic Advisor, Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences (2000 – 2002)
- University of Virginia, Shannon Center for Advanced Studies, Advisory Board (2000 - 2002)
- World Bank Ad Hoc Panel on Millennium Science Initiatives (Chair) (2000 – 2001)
- Member, Steering Committee, Funding First, Mary Woodward Lasker Charitable Trust (2000 – 2002)
- Smithsonian Institution, Integrating Committee for the National Museum of Natural History, (1999 – 2000)
- International Energy Panel, President’s Committee of Advisors on Science and Technology (1998 – 2000).
- National Climate Assessment, Steering Committee (1998 - 2000)
- Carnegie Commission on Science, Technology and Government, Task Force on Long Term Goals and Priorities in Science and Technology (1990 - 1992).
- U.S. Environmental Protection Agency, International Environmental Technology Transfer Advisory Board (IETTAB), (1989 - 1990).
- James Madison University, Advisory Panel, Proposed College of Applied Science and Technology (1989).

- Sigma Xi, The Scientific Research Society, Long Range Planning Committee (1989 - 1992).
- Electric Power Research Institute Advisory Council (1986 - 1992).
- TVA - Editorial Board, Forum for Applied Research and Public Policy (1985 - 1992).
- Stanford University, School of Engineering Advisory Council (1984 - 1989).
- Corporation for (Thomas) Jefferson's Poplar Forest, Member, Advisory Committee (1982)
- Aspen Institute, Energy and Resources Committee (1979 - 1992).
- EPCOT (Experimental Prototype Community of Tomorrow) Advisory Panel, The Land, Walt Disney World, Orlando, FL (1981 - 1982).
- Stanford University, Senior Advisory Panel, Energy Modeling Forum (1980 - 1992).
- National Science Foundation, Advisory Panel, Division of Policy Research and Analysis,(1978 - 1979).
- Georgetown University, Vice Co-Chairman (Industry), Task Force on Fuel Utilization and Conservation, National Coal Policy Project, Center for Strategic Studies (1977 - 1979).
- National Bureau of Standards, Advisory Committee, Energy Conservation Programs, (1976 - 1979).

| **BOARDS OF DIRECTORS (CIVIC AND PROFESSIONAL):**

- Board of Directors, Environmental and Energy Study Institute (EESI) (2008 -)
- Board of Directors (Chairman, 2003-2006), Population Action International (2003 -)
- Board of Directors, George and Marta Brown Foundation (2000)
- Board of Directors, Black Rock Forest Consortium (1999 -)
- Board of Directors, World Resources Institute (1998 - 2003)(Chair, Program Committee 1999 – 2003)
- Board of Governors, New York Academy of Sciences (1998 - 2002)
- Board of Directors, The Energy Foundation (1990 - 1992).
- Board of Directors, American Association for the Advancement of Science (AAAS) (1988 - 1990).
- Board of Directors, Resources for the Future, Inc. (1983 - 1992).
- Board of Associates, Randolph-Macon College, Ashland, VA (Chairman, 1980 - 1983).
- Knoxville Energy Expo '82: Member, Board of Directors (1978 - 1979); Chairman, Energy Committee and National Advisory Council (1979 - 1982).
- Board of Directors, State of Tennessee Energy Authority (1977 - 1979).
- Board of Trustees, Randolph-Macon College, Ashland, VA (1977 - 1979).

BUSINESS:

- Board of Directors, Transition Energy, LLC) (2007-)
- Senior Advisor, Global Environment & Technology Foundation (2006 -- 2008)
- Board of Directors, ACTION LLC (2004 -)
- Chief Academic Advisor, Shenglongda Co., Ltd. (2001 - 2005)
- Board of Directors, Interstate Waste Technologies (1998 -)
- Board of Directors, Dynamac Corporation (1998 - 2008)
- President, Resource Strategies (1998 -)
- Board of Directors, Supercritical Combustion Corporation. (1998 - 2001)
- Board of Directors, Gibbons Surgical Corporation (1998 - 2004)
- Founder and Member, Board of Directors, ORTEC (now a unit of EGG Corporation) (1962 - 1968).
- Board of Directors, Environmental Systems Corporation (1976 - 1979).
- Board of Directors, McDowell Enterprises, Inc. (1977 - 1979).

HONORS, AWARDS, PROFESSIONAL SOCIETIES:

- 2009 - Energy Efficiency Forum Hall of Fame – Inaugural Honoree – Johnson Controls and the U.S. Energy Association
- 2008 – Randolph-Macon College Society of Alumni – Distinguished Alumni Award
- 2007 – Alliance to Save Energy, Lifetime Achievement Award in Energy Efficiency
- 2005 – U.S. Civilian Research and Development Foundation – First George E. Brown Award for International Science and Technology Collaboration
- 2005 – Fellow, American Academy of Arts and Sciences
- 2005 – Distinguished Career in Science and Engineering Award, Washington Academy of Sciences
- 2004 - Chinese Association of Science and Business Award of Excellence
- 2002 – Virginia Foundation for Independent Colleges, Inaugural recipient, Alumni Excellence Award
- 2000 – 2001 President, Sigma Xi, The Scientific Research Society
- 1999 - Member, American Philosophical Society
- 1998 National Academy of Engineering, Arthur M. Bueche Award for Statesmanship in the Field of Technology
- 1998 American Association of Engineering Societies Chairman’s Award
- 1998 National Science Foundation Distinguished Public Service Award
- 1998 NASA Distinguished Service Medal
- 1997 Sigma Xi, The Scientific Research Society, John P. McGovern Science and Society Award and Medal.
- 1997 First Seymour Cray HPC Industry Recognition Award
- 1997 State of Tennessee, Governor’s Outstanding Tennessean Award
- 1997 Fellow, Association for Women in Science.

- 1995 Commonwealth of Virginia Life Achievement in Science Award.
- 1994 Commandeur dans l'Ordre des Palmes Academiques Diploma and Medal, Republic of France, for scientific and cultural cooperation between France and the United States.
- 1994 Member, National Academy of Engineering.
- 1993 James Madison University, Harrisonburg, VA, Distinguished Service Award.
- 1992 American Association for the Advancement of Science Philip Hauge. Abelson prize, for a public servant, in recognition of sustained exceptional contributions to advancing science.
- 1991 Federal Republic of Germany, Officer's Cross of the Order of Merit, for contributions to German-American cooperation in science and technology.
- 1991 American Physical Society, Leo Szilard Award for Physics in the Public Interest.
- 1990 Federation of American Scientists, Public Service Award.
- Fellow, American Association for the Advancement of Science.
- Fellow, American Physical Society.
- Member, Council on Foreign Relations (1990 – 2008)
- 1982 – Member, New York Academy of Sciences
- 1978 - 1979 Sigma Xi, The Scientific Research Society, National Lecturer.
- 1974 - Federal Energy Administration, Distinguished Service Award.
- Others: Phi Beta Kappa; Sigma Xi; Omicron Delta Kappa; Sigma Pi Sigma; Pi Mu Epsilon; Pi Gamma Mu.

EDUCATION:

- 1949 B.S. Mathematics and Chemistry, Randolph-Macon College, Ashland, VA
- 1954 Ph.D. Physics, Duke University, Durham, NC
- 1977 Sc.D. (Hon.) Randolph-Macon College, Ashland, VA
- 1994 Ph.D. (honoris causa) Humane Letters and Science, Illinois Institute of Technology, Chicago, IL.
- 1995 Ph.D. (honoris causa), Science, Mt. Sinai Medical School, New York, NY.
- 1996 Ph.D. (honoris causa), Science, University of Delaware, Newark, DE
- 1997 Ph.D. (honoris causa), Science, Duke University, Durham, NC
- 1997 Ph.D. (honoris causa), Science, University of Maryland Baltimore County, Baltimore, MD

PUBLICATIONS:

Numerous in the areas of national science and technology policy; energy and environmental policy; energy supply and demand; conservation; resource management; nuclear physics; and origins of solar system elements. Books: Energy: The Conservation Revolution (with William U. Chandler)(New York and London: Plenum Press, 1981); This Gifted Age: Science and

Technology in the Millennium (NY: Springer-Verlag Press, 1997).

PERSONAL:

Born January 15, 1929, Harrisonburg, VA. Married Mary Ann Hobart (1955). Children: Virginia Neil, Diana Conrad, Mary Marshall. Member: Emmanuel Church (Episcopal), Middleburg, VA. Eagle Scout/Order of the Arrow. Cosmos Club. Residence in The Plains, VA.