



Marye Anne FOX, *Member*

Chancellor, University of California, San Diego

Marye Anne Fox, a world-renowned chemist, is the 7th Chancellor of the University of California, San Diego and Professor of Chemistry. Before her current appointment, she served as North Carolina State University's 12th Chancellor, as Distinguished University Professor of Chemistry at NC State (from 1998 to 2004) and as Waggoner Regents Chair in Chemistry and Vice President for Research at the University of Texas at Austin. Fox was born in Canton, Ohio in 1947 and received her B.S. from Notre Dame College and her Ph.D. from Dartmouth College, both in Chemistry. After a postdoctoral appointment at the University of Maryland, she joined the faculty of the University of Texas at Austin in 1976.

Administrative: Chancellor Fox serves as head administrative officer of the University of California, San Diego, one of ten campuses in the world-renowned University of California system. UCSD is recognized as one of the top institutions in the nation for higher learning and research. Since its founding in 1960 on a spectacular 1,200-acre mesa overlooking the Pacific Ocean, UCSD has attracted a wide array of outstanding scholars, including currently eight Nobel Laureates and 71 National Academy of Science members, the 6th largest U.S. concentration. Regarded as the "youngest of the best" of nationally-ranked institutions of higher learning, UCSD boasts an acclaimed system of six undergraduate colleges that combines the intimacy of a small liberal arts college with the academic resources of a major research university. The third largest employer in San Diego County (after the federal government and the San Diego Unified School District), UCSD has a budget in excess of \$1.9 billion and employs over 26,000 faculty and staff. UCSD enrolls approximately 25,000 students, 20,000 of whom are undergraduates. Approximately 52% of all students are female and 48% are male; 99% of all incoming freshmen have graduated in the top 10% of their high school graduating class.

UCSD's programmatic offerings - more than 130 academic degree programs - are both impressive and highly ranked, ranging from science, management, engineering, and medicine to social science, international studies, and arts and humanities. In addition to its highly rated graduate research programs, UCSD offers professional degrees in medicine, management, pharmacology and pharmaceutical science, and international studies. UCSD's research

pro prowess has catapulted the campus to the top ranks of national and international academic standings. The National Science Foundation ranks UCSD 7th in the nation in federal R&D expenditures and the Institute for Scientific Information ranks UCSD 4th in the nation for 'citation impact' in science & social science. The National Research Council ranks UCSD 10th in the nation in quality of faculty and graduate programs, and 1st in oceanography and neuroscience. U.S. News and World Report ranks UCSD as 8th best public university in the nation. In global rankings, The Times of London placed UCSD 24th in its ranking of the world's top 200 universities and Shanghai Jiao Tong University placed UCSD 13th in its ranking of the world's top 500 universities (and 2nd among public institutions.)

When Chancellor Fox arrived at UCSD in August 2004, she pledged to increase UCSD's stature by building on its three pillars of strength: innovation and discovery, interdisciplinary scholarship, and international leadership. Continuing an emphasis that has shaped her remarkable career, the Chancellor also vowed that UCSD will expand its partnerships with the private sector and will lower barriers to technology transfer. Throughout its history, UCSD has forged unusually strong ties to the external community. Its enviable town-gown relationship helped fuel a regional resurgence in the 1990s, spinning off more than 200 companies and reinventing San Diego as a global hub for high-tech and biotech innovation. UCSD's community ties and its commitment to inclusive access to higher education for members of under-represented groups also led to the creation of the Preuss School, a national model for university leadership in K-12 education reform and outreach.

Teaching: Professor Fox has taught chemistry courses ranging from lower division to advanced graduate levels. She was named by Texas' Utmost Magazine as one of the "Best of UT Natural Science Faculty" and in 1986 won the College's Teaching Excellence Award. In 1996, she won Sigma Xi's Monie A. Ferst Award in recognition of outstanding graduate mentoring: so far, over 50 advanced degrees have been awarded under her supervision. At the national level, she is a frequent lecturer on science education reform and acts as an advisor to the Association for Women in Science and BEST (Building Engineering & Science Talent). She has served as co-chair of a NSF/NSB Taskforce on Graduate Education and on NRC, Texas, North Carolina and Louisiana advisory panels for systemic improvement of K-12 science and mathematics education and teacher training. She has chaired the NRC Committee on Undergraduate Science Education. She serves on several local K-12 educational task forces and was instrumental in locating a magnet middle school focused on science and mathematics on the NC State Centennial Campus research park. Her leadership and support of UCSD's groundbreaking Preuss School has helped to ensure its continued success and academic excellence.

Research: Professor Fox is one of the nation's most creative physical organic chemists, having published over 350 refereed papers, six books, and nearly 30 book chapters, mostly in organic photochemistry and electrochemistry. Her work has clear application in materials science, solar energy conversion, and environmental chemistry. The quality of this work has been recognized in many awards. She has been elected to membership in the National Academy of Sciences and the American Philosophical Society and as a fellow of the American Academy of Arts and Sciences and the American Association of Advancement of Science. From the American Chemical Society, she has received the Garvan Award and the

Southwest Regional Award, and has been named an Arthur C. Cope Scholar. She has received many international research awards and was cited by Esquire Magazine as "Best of the New Generation." She has been a Sloan Fellow and a Dreyfus Teacher-Scholar and is the recipient of six honorary degrees. She is a frequently invited speaker at international science conferences and has delivered more than 50 named lectures at universities in the US and abroad.

Service: Chancellor Fox is a member of President Bush's Council of Advisors on Science and Technology and chaired its panel on Broadband Infrastructure for the 21st Century. She previously has served on the Council of the National Academy of Sciences and its Governing Board, and currently serves on its Committee on Science and Education Public Policy and as a co-chair of its Government-University-Industry Research Roundtable. In 1990, after confirmation by the U.S. Senate to the national Science Board, she served as its Vice Chairman (1994-96) and chaired its Committee on Programs and Plans (1991-94). She chaired the Chemistry Section of American Association for the Advancement of Science, and has advised its Center for Science, Technology and the Congress. She has served on the Texas Governor's Science & Technology Council and on advisory panels for the Army, the Department of Energy, the National Science Foundation, and the National Institutes of Health. She served on the North Carolina Governor's Science and Technology Advisory Board and currently serves on the University of California's President's Science & Innovation Board. In recognition of her service as an ad hoc research advisor to the Southern Governor's Association, she was named a Kentucky Colonel. She has served on editorial boards of 14 scientific journals. She has served as president of Sigma Xi, a national scientific honorary society and as chair of the NASULGC Commission on Food, Environment, and Renewable Resources. She is a member of the Council on Competitiveness and serves on the National Security Higher Education Advisory Board and the National Council for Science in the Environment. She has been called upon frequently to provide Congressional testimony on science education and science policy issues. She has also played a leadership role in encouraging industry-university partnerships and was responsible for the rapid growth of the NC State Centennial Campus, a 1200-acre research park that houses more than 60 private businesses aligned with or derived from university intellectual property.

She serves on the boards of the Burroughs-Wellcome Fund and the Dreyfus Foundation, and on the scientific advisory committee of the Welch Foundation. She currently serves on many community and professional boards, including Children's Hospital, La Jolla Playhouse, La Jolla Music Society, San Diego Economic Development Corp., Institute of the Americas, the Green Foundation for Earth Sciences, the Center for Ethics in Science & Technology, and United Way of San Diego. She previously served as an advisor to the Texas Environmental Defense Fund.

Personal: The mother of three sons and two stepsons, Dr. Fox is the wife of James K. Whitesell, a UCSD chemistry professor.

Additional information: <http://www-chancellor.ucsd.edu/>