

Archived Information

Speaker biographies

Third Meeting, February 2-3, 2006

The Secretary of Education's Commission on the Future of Higher Education

Session 2 "Innovation and the Economy"

G. Wayne Clough

In September, 1994, Dr. G. Wayne Clough became the tenth President of the Georgia Institute of Technology and the first alumnus to serve as president. Dr. Clough received his B.S. and M.S. in Civil Engineering from Georgia Tech in 1964 and 1965, and a Ph.D. in 1969 in Civil Engineering from the University of California, Berkeley.

Dr. Clough was a member of the faculty at Duke University, Stanford University, Virginia Tech, and the University of Washington. He served as Head of the Department of Civil Engineering and Dean of the College of Engineering at Virginia Tech, and as Provost and Vice President for Academic Affairs at the University of Washington.

During his tenure as president, Georgia Tech served as the Olympic Village for the 1996 Centennial Olympics. Research expenditures have increased from \$212 million to \$425 million, a required computer initiative for all students was implemented, and enrollment has increased from 13,000 to 17,100. Over \$1 billion in private gifts has been received. A statewide Georgia Tech regional engineering program has been implemented. An ambitious building program of over \$900 million has been completed with another \$300 million in planning or design. In 1999, Georgia Tech received the Hesburgh Award, the nation's top recognition for support of undergraduate teaching and learning. The Institute has been ranked among the top ten public universities by *U.S. News and World Report* for seven consecutive years, and *Black Issues in Higher Education* cites Georgia Tech as the top producer of African-American engineers.

Dr. Clough has been recognized for his teaching and research, including a total of nine national awards from the American Society of Civil Engineers, most recently the 2004 OPAL lifetime award for contributions to education. He is one of a handful of civil engineers to have been twice awarded civil engineering's oldest recognition, the Norman Medal, in 1982 and in 1996. He received the George Westinghouse Award from the American Society of Engineering Education in 1986 for outstanding teaching and research. In 1990, he was elected to the National Academy of Engineering (NAE). He was awarded the 2002 National Engineering Award by the American Association of Engineering Societies and in 2004 was named a Distinguished Alumnus from the College of Engineering at U.C. Berkeley.

President George W. Bush appointed Dr. Clough to the President's Council of Advisors on Science and Technology (PCAST) in 2001, and in 2004 Bush nominated him to the National Science Board (NSB). Clough's other service activities include: Vice Chair of the U.S. Council on Competitiveness where he co-chaired the 2004 National Innovation Initiative; chair of the National Academies' Katrina Commission; and chair of The Engineer of 2020 Project for the NAE. Previously Clough chaired Governor Barnes' Blue Ribbon Natural Gas Task Force and Mayor Franklin's Clean Water Advisory Panel. He is a member of the Executive Committee of the Metro Atlanta Chamber of Commerce and a Trustee of Georgia Research Alliance. Clough serves on the Board of Advisors for Noro-Moseley Partners, the southeast's largest venture capital fund, and the Board of Directors of TSYS of Columbus, Ga. He serves as a special consultant to the San Francisco Bay Area Rapid Transit System for ongoing major seismic retrofit operations. For nine years *Georgia Trend* magazine has listed him among the 100 Most Influential People in Georgia.

Clough's interests include technology and higher education policy, economic development, diversity in higher education, and technology in a global setting. His civil engineering specialty is in geotechnical and earthquake engineering. Dr. Clough has published over 120 papers and reports and six book chapters.

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Nicholas M. Donofrio

Nick Donofrio is the Executive Vice President of Innovation and Technology at the IBM Corporation.

Nick Donofrio is a champion for innovation across IBM and its global ecosystem and is the leader of IBM's global technology strategy. He also is vice chairman of the IBM International Foundation. Mr. Donofrio's responsibilities include IBM Research, Governmental Programs, Quality, Corporate Community Relations, as well as Environmental Health and Product Safety. Also reporting to Mr. Donofrio are the senior executives responsible for IBM's enterprise on demand transformation, as well as IBM's initiatives for open industry standards and intellectual property. He is a member of IBM's Executive Technology and Strategy teams. In addition to his strategic business mission, Mr. Donofrio leads the development and retention of IBM's technical population and strives to enrich that community with a diversity of culture and thought.

Mr. Donofrio joined IBM in 1967 and spent the early part of his career in integrated circuit and chip development as a designer of logic and memory chips. He held numerous technical management positions and, later, executive positions in several of IBM's product divisions. He has led many of IBM's major development and manufacturing teams -- from semiconductor and storage technologies, to microprocessors and personal computers, to IBM's entire family of servers.

He earned a Bachelor of Science degree in Electrical Engineering from Rensselaer Polytechnic Institute in 1967 and a Master of Science in the same discipline from Syracuse University in 1971. In 1999 he was awarded an honorary doctorate in Engineering from Polytechnic University, in 2002 he received an honorary doctorate in Sciences from the University of Warwick in the United Kingdom, and in 2005 he was awarded an honorary doctorate in Technology from Marist College.

Mr. Donofrio is focused sharply on advancing education, employment and career opportunities for underrepresented minorities and women. He served for many years on the Board of Directors for the National Action Council for Minorities in Engineering (NACME) and was NACME's Board chair from 1997 through 2002. He also serves on the Board of Directors for INROADS, a non-profit organization focused on the training and development of talented minority youth for professional careers in business and industry. In 2005, Mr. Donofrio was appointed by U.S. Education Secretary Margaret Spellings to serve on the Commission on the Future of Higher Education, a 20-member delegation of business and university leaders charged with developing a new national strategy for post-secondary education that will meet the needs of America's diverse population and also address the economic and workforce needs of the country's future.

He is the holder of seven technology patents and is a member of numerous technical and science honor societies. He is a Fellow of the Institute for Electrical and Electronics Engineers, a Fellow of the U.K.-based Royal Academy of Engineering, a member of the US-based National Academy of Engineering, a member of the Board of Directors for the Bank of New York, a member of the Board of Trustees at Rensselaer Polytechnic Institute, and a member of the Board of Directors for The Council for the United States and Italy.

In 2002, Mr. Donofrio was recognized by Europe's Institution of Electrical Engineers with the Mensforth International Gold Medal for outstanding contributions to the advancement of manufacturing engineering. In 2003, he was named Industry Week magazine's Technology Leader of the Year, the University of Arizona's Technical Executive of the Year, and was presented with the Rodney D. Chipp Memorial Award by the Society of Women Engineers for his outstanding contributions to the advancement of women in the engineering field. In 2005, Mr. Donofrio was elected a member of the American Academy of Arts and Sciences and was presented with Syracuse University's highest alumni honor -- the George Arents Pioneer Medal, and he was honored by CNBC with its Overall Technology Leadership Award.