

CCEE HALL OF FAME INDUCTEES 2017

This is the first group of inductees into the new CCEE Hall of Fame. These individuals are all previous recipients of the Distinguished Engineering Alumni Awards, as indicated by the date beside their names.

William Davidson Alexander III – 1976

This outstanding alumnus, with a significant record of achievement in the design, construction, and management of some of the world's most complex engineering systems, received his professional degree in Civil Engineering in 1953. Following a distinguished career in the United States Air Force, which culminated in his assignment as Chief of the Facilities Design Office responsible for the Intercontinental Ballistic Missile Launch Facility Program, he began a notable civilian career upon his retirement as Air Force Colonel in 1962.

Alexander managed the design and construction of the launch facilities for the Apollo Project and the design and construction of the 299 BEV Proton Accelerator, the world's largest atom smasher. He was the retired president of the New York-based engineering firm of Seeyle, Stevenson, Value and Knecht, Inc. Upon his retirement, he went on to be responsible for the property acquisition, design, and construction of the \$1.6 billion Metropolitan Atlanta Rapid Transit Authority System. He was dedicated to his profession and to furthering engineering education, he contributed significantly to the goals of N.C. State as a former member of the Engineering School Advisory Council.

Stephen F. Angel – 2012

This distinguished graduate earned his B.S. degree in civil engineering from NC State University in 1977. Since 2007, he has been chairman and chief executive officer of Praxair, Inc., a leading industrial gas company in North and South America and one of the largest worldwide. With market capitalization over \$40 billion and 2016 sales of \$11 billion, the company employs over 26,000 people globally and has been named to the Dow Jones® World Sustainability Index for 15 consecutive years.

Angel joined Praxair in 2001 as an executive vice president and was named president and chief operating officer in February 2006. Prior to Praxair, he spent 22 years in a variety of management positions with General Electric.

Angel currently serves on the Boards of Directors of the US-China Business Council and PPG Industries, and is a member of The Business Council. Past work in the business community includes serving on the Board of the American Chemistry Council and chairing the U.S. Section of the U.S.-Brazil CEO Forum.

Students have benefited from Angel's commitment to NC State through his numerous on-campus speaking engagements and several generous gifts from the Angel Family Foundation, including *The Angel Family Distinguished Professorship in Mechanical Engineering* and support of the *Engineering Building Oval*. He has also led many strategic engagement efforts between Praxair and the University.

Raymond A. Bryan Jr. – 2007

Ray Bryan received his B.S. in construction from North Carolina State University in 1953. A Korean War veteran, he served in the U.S. Army from 1954 to 55. He was the chairman of T. A. Loving Company, known for its beautiful construction projects on NC State University's campus, including the Park Alumni Center and the Wendell H. Murphy Football Center. In addition to running a successful business, Bryan had a long history of dedication to education, having served on the Board of Trustees for Campbell University and the Board of Trustees for the Independent College Fund of North Carolina. He was a past president of the Wolfpack Club, a past College of Engineering Dean's Cabinet member, a former director of the NC State Engineering Foundation Board, and a lifetime Alumni Association member. In the community, he also served as president of the Wayne County Boys and Girls Club and was named a James E. West Fellow for his contributions to the Boy Scouts.

Jimmy D. Clark - 2012

This distinguished graduate earned his B.S. degree in civil engineering from North Carolina State University in 1974. Clark is a registered professional engineer and owner and president of Guy M. Turner, Inc., a rigging, millwright, and heavy transportation and crane services company headquartered in Greensboro, NC. Once a small rigging operation, Clark transformed the business into a diversified company with 12 offices in the United States and Canada. A generous supporter of NC State, Clark established the Jimmy D. Clark Distinguished Professorship in the Department of Civil, Construction, and Environmental Engineering in 2007.

Clark and his wife, Vickie, also support the College's Leadership Fund and Dean's Circle, the Alumni Association's Caldwell Scholarship program, the Chancellor's Residence and the Wolfpack Club.

Clark serves on the university's Board of Trustees, the Engineering Foundation Board of Directors and the Alumni Association Board of Directors. He previously served as chair of the university's Board of Visitors, chair of the NC State Magazine Advisory Board, and as a member of the Park Scholars Selection Committee. He is also an honorary lifetime member of the NC State Alumni Association and the Walter Hines Page Society.

Dr. Michael W. Creed -- 2015

This distinguished alumnus received a B.S. degree in civil engineering with high honors in 1973 and a master of science in engineering in 1984 from N.C. State. He went on to earn a PhD in City & Regional Planning from UNC Chapel Hill in 2010. Creed is co-founder and board chair of McKim & Creed, an engineering, planning, and surveying firm that has been an ENR Top 500 company since 1992. He was one of the original members of the CCEE advisory board and served as chair of the department's Paul Zia Distinguished Lecture Series during its growth into a major annual event. He has served as guest lecturer in CCEE, a volunteer with student organizations, and a member of the board of directors for the N.C. State Engineering Foundation.

Creed has been active in numerous professional, technical, and civic organizations, including Professional Engineers of North Carolina (PENC), American Council of Engineering Companies of N.C. (ACEC/NC), American Society of Civil Engineers (ASCE), Cape Fear Area United Way Board, the Leukemia & Lymphoma Society's Team in Training program, Historic Wilmington Foundation Board, Downtown Area Redevelopment Effort of Wilmington, N.C. Chamber Board and the Industry Advisory Council for the Accreditation Board for Engineering and Technology.

Creed is also a past president of the N.C. Azalea Festival and the Professional Services Management Association (PSMA). In 2006 he won PSMA's Leonardo Da Vinci Award, which recognizes those who have achieved success in both the technical and management aspects of professional practice.

Glenn E. Futrell – 1999

This dedicated alumnus received his B.S. degree in 1963 and his Master's degree in 1965 in civil engineering from NC State. After graduation, he began his career as a staff engineer for Law Engineering and Testing Company of Charlotte and was soon promoted to branch manager of the Raleigh office.

In 1973 he formed Soil & Material Engineers (S&ME), a company that grew to more than 1,000 employees in 35 branch offices in 10 states. As S&ME grew, it provided services in Geotechnical & Environmental Engineering and hazardous waste cleanup. In 1986, S&ME was featured on the cover of Engineering News Record as one of the most successful engineering firms in the United States. At that time, S&ME had become the fifth largest geotechnical engineering company in the US. After retiring from S&ME in 1990, Glenn has had a successful career in Real Estate development and serving on various Boards. He has served on Waste Industries USA board and North State Bank's board.

Futrell was a member of YPO (Young Presidents Organization) and WPO (World Presidents Organization) for 15 years.

An active alumnus, he has been a member of the North Carolina Engineering Foundation's Board of Directors for 20 years and served as president of the board in 1996-97. He has been a strong advocate for the College and University. He has established Endowments for both Professorships and students in Civil Engineering. Glenn has also been active in the Wolfpack Club, serving 8 years on its board and many community organizations.

Paul Noble Howard Jr. -- 1979

This 1944 graduate in Civil Engineering, Howard was the former Chairman of the board of the Paul N. Howard Company, an engineering and contracting firm specializing in the construction of water and waste treatment facilities. Howard had a long and distinguished record of service to the construction industry, to this university, and to his community. Among his company's major projects was the installation of 70 miles of water mains in Abu Dhabi on the Arabian Gulf, a \$52 million project.

Howard was previously national President of the Associated General Contractors of America and served as the representative to President Ford's Economic Summit. Howard actively and significantly supported this university where he served as President of the Alumni Association, a member of the Board of Directors of the North Carolina State Engineering Foundation, and as President of the Guilford County NCSU Alumni Club.

Johnie Hooper Jones -- 1994

This distinguished engineer earned his B.S. degree in Civil Engineering in 1953. After completing his service in the US Naval Civil Engineering Corps, Johnie joined J.A. Jones Construction Company, which was founded in 1890 by his grandfather, James Addison Jones. He spent his entire career with the company, beginning as a timekeeper and retiring as Chairman and CEO. Jones traveled the world for J.A. Jones projects, which built facilities in 60 nations from the Arctic to the Tropics. Jones truly valued his relationship with each of his fellow workers from the construction site to the Board Room. In addition to his professional life, he also served as the past President of the North Carolina State Engineering Foundation and as a member of the Dean's Cabinet for the NCSU College of Engineering. Jones served as Chairman of the Board of the United Methodist Foundation, Brevard College Board of Trustees, and Discovery Place. He also served on the local Board of First Union National Bank. He was a member of the Charlotte Chamber of Commerce, the Construction Industry President's Forum, the Good Fellows, and the Lions Club.

James Fredrick Kelly -- 1968

A 1943 graduate in Civil Engineering, this outstanding alumnus became President of Aeroglide Corporation of Raleigh in 1956 when he was only 33 years old. The following year he was elected to the Young Presidents' Organization, which recognizes an individual who, prior to his 40th birthday, becomes president of a company doing an annual volume in excess of one million dollars.

Kelly's company manufactured machinery and equipment for processing farm products. As an engineer with an interest in the development of engineering equipment for the agricultural processing industry, he was the motivating force in the company's establishing a plant in Emporia, Kansas; joining in a cooperative venture with Empresa Metalurgica Colombiana in Bucaramanga, Colombia.

Kelly was extremely dedicated to his alma mater, serving on the Board of Directors of the Alumni Association and the North Carolina State Engineering Foundation as well as President of the University's Development Council.

Thomas William Lambe -- 1982

This outstanding alumnus who earned his B.S. degree in Civil Engineering in 1942, had made major contributions to the knowledge of earth structures, settlement control, foundation performances, and soil structure and behavior. He retired after 36 years on faculty as the Edmund K. Turner Professor of Civil Engineering, at Massachusetts Institute of Technology, and a consultant in geotechnical engineering.

During his tenure, Lambe served as Director of the Soil Stabilization Laboratory, Head of the Geotechnical Division, and Professor of Geotechnical Engineering. He developed the Integrated Civil Engineering project concept, combining applied research with engineering practice to improve design and to advance research. He has conducted pioneering research in soil mechanics and is the author of Soil Testing for Engineers. NASA twice recognized his contributions to the Apollo Program for which he shaped the exploration project of the surface of the moon. He also received the Norman Medal, the highest honor bestowed by the American Society of Civil Engineers, and the Society's Terzaghi Award for his geotechnical engineering contributions. He was also honored with an election to the National Academy of Engineering.

Barbara H. Mulkey, PE, FASCE -- 2006

Barbara graduated from NC State magna cum laude in Engineering in 1977, and then completed a Master's Degree in Structural Engineering at NC State in 1984. Entrepreneurial by nature, Barbara founded Mulkey Engineers & Consultants, Inc. in 1993, an engineering consulting firm specializing in engineering and related services for both the public and private sectors. Begun at her kitchen table, the company made the list of Top 500 Engineering Companies nationally multiple times while under her leadership.

With a career foundation as a structural engineer focusing on highway bridge design, Barbara naturally placed a strong emphasis on her firm's transportation planning, design and construction services. Today she is heralded as one of the most respected transportation experts in the state, as evidenced by her induction into the NC Transportation Hall of Fame.

Giving back to her profession, Barbara served as President of The American Council of Engineering Companies for the state organization as well as National Director. She was later named a Fellow by the American Society of Civil Engineers (FASCE).

Barbara serves her community as a member of the Research Triangle Board of Directors, and Chairs the Triangle Universities Center for Advanced Studies Board. Among other community recognitions, Barbara was named the TBJ Legacy Leader, and she was also admitted into the Leadership Raleigh Hall of Fame.

At NC State, Barbara served for eight years on the Board of Trustees, including two years as Chair. Barbara and her husband Jim are benefactors of the Mulkey/General Hugh Shelton Leadership Award, an endowed scholarship that recognizes values-based leadership in engineering students at NC State. She has received the Distinguished Alumnus Award by the College of Engineering, and in 2016 she was awarded the Watauga Medal.

B.D. Rodgers -- 2009

This distinguished graduate earned his B.S. degree in civil engineering in 1949 from North Carolina State University. Beginning in 1963 with one truck, a superintendent and \$5,000 borrowed from his life insurance policy, he built a highly successful construction company, Rodgers Builders, Inc., that was named the 2007 Carolinas AGC "Best of the Best in the Carolinas Construction Industry." Rodgers was a leader in his business, his community, and his state and was a longstanding board member for numerous academic institutions and non-profit organizations. He was a recipient of the Golden Hammer Award from the Professional Construction Estimators Association, the 1999 Lucille P. Giles Award from Florence Crittenton Services, and the 2000 Executive of the Year Award from the Construction Financial Managers Association.

Walter Tilford Smith -- 1966

Fondly known as Tilly Smith, this distinguished engineering alumnus joined the Newport News Shipbuilding and Dry Dock Company one month after graduating from N.C. State in 1929 with a Civil Engineering degree. He rose through various positions to eventually become Executive Vice President and Director of the company. Mr. Smith's career lasted for 43 years with the company before retiring in 1972. During his tenure, the company built some of the world's mightiest ships including the nuclear-powered aircraft carrier USS Enterprise and numerous nuclear-powered Polaris-armed submarines. Mr. Smith was an active alumnus who served his alma mater previously as a director of the Alumni Association and as President of the Tidewater Alumni Club. In his community, he served in leadership roles in United Fund and Red Cross affairs, as well as in a number of civic and social clubs. This outstanding engineer in every way exemplified the best in engineering responsibility, using his many talents for the improvement of his country, his community, and his university.

Eli Sternberg -- 1987

One of only a few people who have been elected to both the National Academy of Engineering and the National Academy of Sciences, this distinguished alumnus earned his B.S. degree in Civil Engineering from NC State in 1941. He earned his master's degree in Civil Engineering and his doctorate in Mechanics at the Illinois Institute of Technology. His entire career was spent in academia, where he had a major influence on the fields of elasticity, thermoelasticity, and viscoelasticity through his significant fundamental contributions to these areas. In 1964 he became a Professor of Mechanics in the Division of Engineering and Applied Science at the California Institute of Technology, where he retired as professor emeritus in 1988. When he received an Honorary Doctor of Science degree from this NC State in 1963, he was cited for the achievements that brought him to a "position of eminence in the field of applied mathematics which few can match." His honors are many, among which are the Honorary Doctor of Science degree from the Technion, Israel Institute of Technology, and the Timoshenko Medal from the American Society of Mechanical Engineers.

Pamela B. Townsend – 2016

This distinguished graduate earned her B.S. degree in civil engineering in 1984 and her Master's degree in civil engineering in 1987 from NC State. Townsend is the senior vice president for WSP, formerly Parsons Brinckerhoff, a world leading engineering and professional services firm. She worked previously for Dewberry and AECOM. Pam's efforts to help the state of North Carolina include a gubernatorial appointment to the Joint Legislative JOBS (Joining our Business and Schools) Commission, legislative appointment to the Blue Ribbon Commission to Study the Building and Infrastructure Needs of the State, and most recently, a gubernatorial appointment to the NC Works Commission. She served on the leadership team for the creation of the STEM WAKE/NC State High School. This magnet high school was developed for students underrepresented in STEM, and focuses on project based learning based on the National Academy of Engineering Grand Challenges.

Townsend also helped to bring the NC Future City Middle School outreach competition to North Carolina, now hosted by NC State. Townsend is a strong advocate for NC State who has served on the Civil Engineering Advisory board, the NC State Engineering Foundation Board and the NCSU Board of Visitors, and previously chaired the Paul Zia Lecture committee.

Townsend served as President of Professional Engineers of North Carolina, and the PENC Educational Foundation, and is a PENC Fellow.

C.E. Vick Jr. -- 1991

This distinguished engineer received his M.S. degree in 1960 and his B.S. in 1956 in Civil Engineering. He was one of the founders of Kimley-Horn and Associates, Inc., a Raleigh-based engineering, planning and environmental consulting firm. Today, the firm currently employs over 2,800 people and has 84 offices in 28 states, the District of Columbia and Puerto Rico. As president from 1972-1992 and as chairman from 1992 to 2000, he directed the continual expansion of Kimley-Horn's services.

Vick was a registered professional engineer in 15 states as well as a member of the American Institute of Certified Planners. He was a past member of the Board of Directors of the NCSU Engineering Foundation and, at the time of his death, was serving on the Board of Trustees of NCSU's Kenan Institute for Engineering, Technology & Sciences, the Meredith College Board of Trustees, the Board of Trustees of the Cooperative Baptist Fellowship Foundation, the

Associated Baptist Press Board, as well as the NCSU Board of Visitors. He was the recipient of numerous awards, including the NC Society of Engineers Outstanding Achievement Award and in 2007 was inducted into the North Carolina Transportation Hall of Fame.

C. Michael Walton, Ph.D., P.E. -- 1995

This distinguished alumnus received his master's degree and Ph.D. in 1969 and 1971, respectively, in Civil Engineering. He earned his B.S. degree in Civil Engineering from Virginia Military Institute in 1963. He Professor of Civil Engineering and holds the Ernest H. Cockrell Centennial Chair in Engineering at The University of Texas at Austin (UT). In addition, he holds a joint academic appointment in the LBJ School of Public Affairs.

Walton is a past Chair of the Transportation Research Board (TRB) Executive Committee, past Chair of the Board of the American Road and Transportation Builders Association (ARTBA), a founding member and past Chair of the Board of Directors of the Intelligent Transportation Society (ITS) of America, past President of the Board of Governors of the Transportation and Development Institute of the American Society of Civil Engineers (ASCE).

Walton was elected to the National Academy of Engineering in 1993, a Distinguished Member of the ASCE and a member of the inaugural class of ITS America's ITS Hall of Fame. Other honors include the Outstanding Projects and Leaders (OPAL) award from the ASCE; named to America's Top 100 Private Sector Transportation Design and Construction Professionals of the 20th Century (ARTBA). AASHTO-ARTBA-TRB presented the George S. Bartlett Award for outstanding contributions to highway progress and is considered to be among the highest honors in the highway transportation profession. In addition to the OPAL Award, other ASCE honors include Presidents' Award, Francis C. Turner Lecture, James Laurie Prize, Harland Bartholomew Award and Frank M. Masters Transportation Engineering Award. From TRB he received the Frank Turner Medal, W.N. Carey, Jr. Distinguished Service Award and Thomas B. Deen Distinguished Lectureship. Also, ARTBA awarded him the S.S. Steinberg Award; ITE awards include the Wilbur S. Smith Distinguished Educator Award and the Theodore M. Matson Memorial Award. He was inducted into the Texas Transportation Hall of Honor, the ARTBA Hall of Fame and the NCSU College of Engineering Distinguished Engineering Alumnus.

Robert G. Wright -- 2005

This distinguished alumnus earned his B.S. degree in civil engineering-construction from North Carolina State University in 1968 and an MBA from UNC-Chapel Hill in 1974. He is chairman of Kimley-Horn and Associates Inc. From 1969 to 1972, he served as a captain in the US Army Corps of Engineers, and in 1974 he joined Peat, Marwick, Mitchell, and Company as an accountant. In 1979 he joined Kimley-Horn and Associates and was named president in 1992. A dedicated alumnus, he is a member of the NC State Engineering Foundation Board of Directors, serving as president of the board from 2002-04. He was a generous donor to the college during the Achieve! campaign for NC State. He is also a founding member of the Lampe Society level of the Dean's Circle and is an active member of the Economic Development Coalition 2000. He is an active supporter of the college and the Department of Civil, Construction, and Environmental Engineering.

G. Smedes York – 1989

An outstanding graduate who earned his B.S. degree in Civil Engineering in 1963 with high honors and his MBA degree from UNC-Chapel Hill in 1968 with the Dean's Scholar Award, this distinguished alumnus has risen rapidly in engineering and business management to become one of the most dynamic leaders in the construction industry and the business sector of North Carolina. In addition, he has made his mark in public service and is recognized for his contributions to the planning and development of Raleigh, Wake County, and the Research Triangle. From 1979-1983 he was Mayor of the City of Raleigh, having served also on the City Council. He is President of York Construction Co. of Raleigh, Inc., York Properties, Inc., and other corporations. His professional affiliations are many, including first vice president, Board of Trustees of the Urban Land Institute and member of the Institute of Real Estate Management. Active in many charitable and educational organizations, he is immediate past president of the NC State Alumni Association. He serves as a member of the Engineering Advisory Council, the Development Board and Executive Committee, and the Student Aid Association Board of Directors. He is also a member of the Watauga Club. Among his many awards is the 1977 Outstanding Young Alumni Award.