47th Annual

Distinguished Engineer Awards Luncheon

Friday, April 19, 2013
11:30 a.m.

Sunset Ballroom, Overton Hotel and Conference Center
Lubbock, Texas
2013 Distinguished Engineer Awards Luncheon
Sunset Ballroom, Overton Hotel and Conference Center | April 19, 2013 | 11:30 a.m.

Welcome

Dean's Remarks

Lunch

Chancellor's Remarks

Special Recognition

Presentation of Distinguished Engineers

Kelly J. Beierschmitt, Ph.D.
Ben A. Calloni, Ph.D.
Joe D. Gamble
Tom Jacobs
Jack L. McCavit
Scott P. Moore
James Thompson, Ph.D.

Elizabeth F. Holland '84
Managing Partner, Medical Product Consulting, Inc.

Al Sacco Jr., Ph.D.
Dean, Whitacre College of Engineering

Kent Hance '65
Chancellor, Texas Tech University System

Rear Admiral (Select) John D. Alexander '82
2012 Distinguished Engineer

Marshall Watson, Ph.D., P.E. '05, '08
Roy Butler Chair, Department Chair of Petroleum Engineering

Industrial Engineering - '92
Computer Science - '92, '97
Civil Engineering - '62, '63
Engineering Technology - '87
Chemical Engineering - '70
Electrical Engineering - '82
Electrical Engineering - '68, '70, '74
Dean, Whitacre College of Engineering

Al Sacco Jr., Ph.D.

Al Sacco Jr. is dean of the Edward E. Whitacre Jr. College of Engineering. He flew as a payload specialist on the Space Shuttle Columbia on shuttle mission STS-73 in 1995. Sacco has more than 192 publications (including book chapters) in the areas of carbon filament initiation and growth, transition metal and acid catalyst and their deactivation, and zeolite synthesis. He has been the principal investigator on more than $24 million in research grants.

Event Emcee

Elizabeth F. Holland ’84
2012 Distinguished Engineer

Elizabeth Holland, attended Texas Tech University and graduated in 1984 with a Bachelor of Science in industrial engineering. After eight years in defense electronics at Texas Instruments, she has spent the last 20 years in health care, developing and marketing cutting edge medical devices and equipment. Elizabeth is managing partner at Medical Product Consulting, Inc. in Wadsworth, Illinois

Distinguished Engineer Interviews

Marshall Watson, Ph.D., P.E. ’05, ’08

Marshall Watson, is the chair of the Bob L. Herd Department of Petroleum Engineering and the Roy Butler Chair in Petroleum Engineering. Watson has been a professor at Texas Tech serving on the petroleum engineering faculty since 2006. As the recipient of multiple teaching awards, he teaches undergraduate senior level design courses and graduate courses in EOR, property evaluation and unconventional reservoirs. He received a bachelor of science from Cornell University and master of science and Ph.D. degrees from Texas Tech in Petroleum Engineering. He is a registered professional engineer in Texas and three other states.
Kelly J. Beierschmidt, Ph.D.

Distinguished Engineer – 2013
B.S., Industrial Engineering, 1992
Associate Laboratory Director of Neutron Sciences
Oak Ridge National Laboratory

Dr. Kelly Beierschmidt was born in Amarillo, Texas. After graduating from Claude High School, Beierschmidt spent two years as a chemical engineering student at Texas Tech University. As finances became an issue, Beierschmidt went to work at Pantex and transferred to West Texas A&M University, where he earned a bachelor of science in engineering mathematics.

Beierschmidt began his career at Pantex developing analytical methods for assessing the effects of the aging of nuclear explosive components and developing capabilities for understanding the chemical and physical processes involved in the long-term interactions between nuclear materials for stockpile stewardship. While at Pantex, Beierschmidt held several key roles, ranging from providing leadership in efforts to enhance the safeguards and security program to the responsibility for high explosives production, storage, and disposal efforts. Beierschmidt rose to department manager of the facilities startup organization, where he was responsible for commissioning and early operation of the plant’s new modern weapons production, testing, assembly, and storage facilities. During his time at Pantex, he completed a Ph.D. in industrial engineering at Texas Tech in 1992, focusing on risk and reliability engineering.

In 1996, Beierschmidt left Pantex for the Pacific Northwest National Laboratory, where his experience in nuclear science and operations continued by providing support to the Department of Energy’s International Nuclear Safety Advisory Group’s Chernobyl evaluation. He was also a principal member of a task forcechartered to conduct a priority facility vulnerability analysis at Brookhaven National Laboratory, which included the hot cell facilities, old graphite reactor and medical reactor. He also worked in developing dose models for human exposure, including einsteinium.

Beierschmidt joined Oak Ridge National Laboratory (ORNL) in January 2000 as director of the Environment, Safety, Health and Quality Directorate (ESH&Q). He was responsible for developing, operating, and continuously improving ESH&Q management systems and providing ESH&Q services that enabled mission accomplishment. He also led the enhancement and implementation of ORNL’s Integrated Safety Management System. In 2004 Beierschmidt assumed the role of director of the Nuclear Operations Directorate, leading the renewal of ORNL’s nuclear facilities capabilities and bringing them up to modern standards. This included renewal of the High Flux Isotope Reactor (HFIR) to extend its mission for neutron scattering, materials irradiation, and isotope production, and consolidating 10 nuclear facilities into four modern facilities with state-of-the-art capabilities. Following this assignment, Beierschmidt was named associate laboratory director of the Nuclear Science and Engineering Directorate and the executive director of the HFIR for ORNL. The breadth of Beierschmidt’s responsibilities included fuel cycle and isotopes research, design, development, modeling and simulation of reactor and nuclear systems, and the development and implementation of nuclear security technology.

Beierschmidt is currently the associate laboratory director of neutron sciences for ORNL. He is responsible for the management of the neutron sciences research and development portfolio, including the operation of the Spallation Neutron Source (SNS), the world’s most powerful pulsed neutron source. The SNS is dedicated to the study of the structure and dynamics of quantum condensed matter, biology and soft matter, and chemistry and engineered materials through the application of neutron scattering techniques with more than 3,000 annual users. He is also responsible for the operation of the HFIR, an 85 megawatt research reactor dedicated to neutron scattering, materials irradiation, and isotope production.

Beierschmidt and his wife, Sudie, live in Kingston, Tenn., and have two children, Aron and Evan.
Dr. Ben A. Calloni received a bachelor of science in industrial engineering from Purdue University, a master of arts in Christian ministries from Wayland Baptist University, and a master of science and a Ph.D. in computer science from Texas Tech University.

Calloni is a Lockheed Martin Corporate Fellow, an honor given to only one percent of the corporation’s 60,000 technical employees worldwide. He is a former member of the Whitacre College of Engineering Dean’s Council, where he held the offices of secretary-treasurer, vice president, and president. He is also a founding member of the Computer Science Industrial Advisory Board, serving as its first president. He is an American Institute of Aeronautics and Astronautics Associate Fellow, a member of both the Computer Systems and Software Systems Technical Committees, and a Texas Professional Engineer in software engineering. He has received multiple awards from Lockheed-Martin, as well as Outstanding Academic Instructor for the United States Air Force, serving from 1973-1985, and at Texas Tech, where he served as a faculty lecturer from 1989-1997. He also received, among others, the USAF Commendation Medal, Achievement Medal, and an Outstanding Unit Citation. Calloni flew the F-4 Phantom in the Southeast Asia conflict.

Calloni previously worked for FSI International as an embedded software engineer before beginning his tenure with LM Aeronautics. Calloni is highly regarded as a subject matter expert in software and security engineering by senior system architects of the world’s aerospace and defense corporations, as well as in the U.S. government. He has performed research in the security and safety critical domain with the Department of Defense, Department of Homeland Security, and the National Security Agency. His work with the Multiple Independent Levels of Security (MILS) gained funding for a new methodology to achieve multilevel security requirements. The MILS architecture has been adopted by virtually every major defense weapon system integrator, including on the Lockheed Martin F-22 and F-35 avionics systems, and other Department of Defense ground, air, and sea systems.

Calloni has been the principal investigator under research and development contracts for the Air Force Research Laboratory, addressing issues in U.S. Air Force avionics, leading to successful demonstrations which utilize technologies aimed at promoting open standards and reducing cost to upgrade aging U.S. Air Force aircraft avionics. His success with these programs led to his promotion to program manager, where all of his research and projects concluded on budget and schedule. He has been a leader in several international consortia, including the Object Management Group and the Open Group, and has been invited to participate as a founding member of the Software Assurance Initiative with National Cyber Security Division of Homeland Security. Calloni is a frequent speaker at events such as the University of Virginia’s Distinguished Lectureship series and several avionics and security conferences.

Calloni currently lives in Willow Park, Texas with his wife, Cheryl. They have two daughters, Marsi Hubbard and Shannon Hammonds, and two sons, Daniel and David Garvin, and 10 grandchildren ranging from ages three to 18. Calloni has always been active in church serving in several pastoral roles and as Sunday school teacher.
Joe D. Gamble

Distinguished Engineer – 2013
B.S., M.S., Civil Engineering, 1962, 1963
Consultant
MEI Technologies

Joe Gamble received a bachelor of science and a master of science in civil engineering from Texas Tech University in 1962 and 1963, respectively. He was privileged to be a student in one of Dr. James Murdough’s final concrete classes and had several classes with Dr. Ernst Kiesling in the first master’s class in civil engineering.

Following graduation, Gamble accepted a position at the NASA Johnson Space Center in Houston with the group responsible for the aerodynamics and flight mechanics analysis for human spacecraft.

Gamble supported the Gemini and Apollo programs and performed simulations and analyses of the Apollo launch escape system and entry capsule. Gamble was a member of the team responsible for development and verification of the Space Shuttle Orbiter entry flight control system and worked closely with the first four space shuttle crews during their training process. Gamble was also a member of the Mission Control Center Aero team for the first four flights and served as a subsystems manager for the Space Shuttle Orbiter. In 2012, the American Institute of Aeronautics and Astronautics selected a paper written by Gamble in 1982 as the most influential paper in the space shuttle category for the decade of the 1980’s.

Gamble later served four years as NASA’s Chief Engineer for the Assured Crew Return Vehicle (ACRV) project where he directed a team of NASA engineers and served as the engineering manager for contracts with U.S. companies. After the U.S. decided to use the Russian Soyuz vehicle for the space station rescue vehicle, Gamble managed the engineering portion of the ACRV contract with RSC-Energia for a modified Soyuz vehicle that met NASA’s requirements. During numerous trips to Moscow, Gamble negotiated with the Russian managers regarding required modifications to the Soyuz vehicle, which is still being used as the space station rescue vehicle until the U.S. develops its own vehicle.

After retiring from NASA, Gamble accepted a position as a consultant with MEI Technologies in Houston, where he has continued to support the Johnson Space Center. Gamble is currently helping NASA’s Orion Program to develop a vehicle to transport astronauts to the space station and for deep space exploration.

Additionally, Gamble was a member of the Guidance and Control Team for the Columbia Accident Investigation Board, performing simulations and analyses to reconstruct the probable vehicle dynamics during the loss of communications that occurred for approximately 30 seconds prior to vehicle breakup. The reconstructed dynamics scenario has been used for subsequent astronaut trainings.

Gamble has been honored with several NASA awards and has published numerous technical papers.

Gamble is an active member of his church in Friendswood, Texas and has served as a leader in scouting and Little League sports.

Gamble and his wife Jane are avid supporters of Texas Tech athletics and have attended almost all of the football games for the past 15 years. They have two sons, Joel and David; a daughter-in-law, Melanie; and two granddaughters, Holly and Clara. Gamble’s dad Clyde and sister and brother-in-law Charlotte and Bob Johnson still reside in Lubbock.
Tom Jacobs

Distinguished Engineer – 2013
B.S., Construction Engineering Technology, 1987
President of the Houston Division, Ryland Homes

Tom Jacobs serves as the president of the Houston Division for Ryland Homes, where he is in charge of all land acquisition and development, product development, sales, field operations, and customer service. Jacobs has more than 24 years of experience in all facets of residential construction and development, in addition to experience in commercial construction project management. Since his career in home building began in 1988, Jacobs has served in virtually every capacity within the industry and has participated in the startup of two divisions from the ground up.

Jacobs grew up in a military family and lived in many places, including Hawaii and Germany, all before graduating from high school in Wichita Falls, Texas. Jacobs attended Texas Tech University and graduated with a bachelor of science in construction engineering technology in 1987. He began his career with Texas Instruments as a facilities project manager before moving into the home building industry with Perry Homes and later David Cook Homes. He joined Kimball Hill Homes in 1991, working for nearly 18 years in McAllen, El Paso, and California. During that time, he served as the Northern California Division president and ultimately the Western Regional president in charge of all operations in California, Washington, Oregon, Nevada, and Illinois. He joined Ryland Homes in 2009 and has guided his division to become the largest and most profitable group within the publicly traded homebuilding company. Ryland conducts business in 18 divisions across 14 states.

Jacobs has been recognized as an innovator in the industry and is active in the development and implementation of electronic scheduling systems, electronic work order systems, and many programs related to quality and process improvement. He has also been a leader in the development of unique products throughout his career, has resulted in best in class product awards for his organizations. Jacobs’s work has been spotlighted in industry publications such as Big Builder, Home Builder Executive, and Professional Builder in their 40 Under 40 issue, which spotlights the top individuals in the industry less than 40 years of age.

In 2011, Jacobs spearheaded a project through Ryland Homes to build a home free of charge for a wounded veteran through the Texas Sentinels Foundation. He is currently building an 8 unit complex in conjunction with HomeAid of Houston, which will house single mothers and their children as they transition out of abusive relationships. He is active in the United Methodist Church, taught Junior Achievement, participated in Habitat for Humanity, and is part of The American Cancer Society’s Relay for Life program. At Texas Tech, Jacobs served on the Industrial Advisory Board for the Department of Engineering Technology from 1997-2002, including a term as chair. He is currently a member of the Whitacre College of Engineering Dean’s Council.

 Jacobs and his wife of more than 25 years, Jerri, live in Katy and have three daughters, Sydney, Bayley, and Kerby. Kerby will attend Texas Tech University in the fall as a freshman. Jacobs and Jerri are avid supporters of Texas Tech with memberships in the Alumni Association, the Red Raider Club, and a scholarship they endowed in the Whitacre College of Engineering. During Jacobs’s spare time he enjoys being with his family and staying at Lake LBJ, traveling, reading, watching Texas Tech football as a season ticket holder, and playing tennis.
Jack McCavit is president of JL McCavit Consulting, LLC, a consulting company specializing in improving process safety management systems and reducing process safety incidents.

McCavit graduated from Yoakum High School in 1965. After graduating from Texas Tech University with a bachelor of science in chemical engineering, he began his career working as a process engineer for Celanese Chemical Company in 1970 in Bay City, Texas. He worked for Celanese Chemical Company for 35 years before retiring in 2005. Most of his career at Celanese was spent in operations and technical management at three different plant sites, including serving as operations manager at the facility in Pampa, Texas.

From 2000 until his retirement from Celanese in 2005, McCavit provided strategic process safety management direction for Celanese as the company manager of process safety. As the manager of process safety, McCavit was an active participant in the Center for Chemical Process Safety (CCPS), an industry alliance of the American Institute of Chemical Engineers (AIChE), the Mary Kay O’Connor Process Safety Center, and the American Chemistry Council process safety committee. Through his work at Celanese, McCavit developed extensive experience in operations management and practical application of process safety management systems.

Upon retirement from Celanese in 2005, McCavit founded JL McCavit Consulting, LLC with the goal of helping prevent process safety incidents, fires, explosions, and toxic releases from chemical plants and refineries. Following the BP Texas City explosion in 2005, McCavit served as the BP Baker Panel’s technical project manager. He also served as a part of the BP Independent Expert Team that monitored BP’s implementation of the Baker Panel recommendations.

McCavit is a member of AIChE, an emeritus member of CCPS, a CCPS staff consultant, and has been recognized as an AIChE Fellow and CCPS fellow. He served as chair of the CCPS committee responsible for the development of the Guidelines for Risk Based Process Safety, the next generation CCPS process safety management book. He is a member of the CCPS committee that writes the Process Safety Beacon, a monthly publication of process safety messages for manufacturing personnel, and has been a member of several other CCPS book project committees. He is currently leading the CCPS Vision 2020 project that will describe characteristics of companies with great process safety performance in the future.

McCavit received the prestigious Mary Kay O’Connor Process Safety Center Merit Award in 2011. The award recognizes individuals who have made significant contributions to the advancement of education, research, or service activities related to process safety concepts and/or technologies.

McCavit currently serves on the Chemical Engineering External Advisory Board for the Whitacre College of Engineering. He has attended almost every Texas Tech home football game for more than 20 years.

He and his wife Sherry live in Pampa, Texas, where they are active in the Pampa First United Methodist Church. Sherry, their three sons, Todd, Tim, and Trey, and daughter-in-law Laura are all graduates of Texas Tech. They have seven grandchildren.
Scott P. Moore is vice president of transmission engineering and project services for AEP Transmission, a part of American Electric Power (AEP).

In his current role, Moore directs the capital service function for AEP Transmission, the nation’s largest electricity transmission system, comprising more than 39,000 miles of transmission line and some 3,500 substations in 11 states. This involves overseeing the development of transmission engineering standards, the engineering and design of transmission lines and stations, easement and property acquisition, and project and construction management.

As vice president of transmission system and region operations from 2007 to 2010, Moore steered the company’s regional operations and maintenance responsibilities, providing reliable and cost-effective operation of AEP’s transmission grid. In this position, Moore directed construction of AEP Transmission’s state-of-the-art control center, which is globally recognized as one of top facilities of its kind. He also led initiatives that established the policies and systems that ensure AEP transmission assets comply with national and state reliability and safety standards.

Moore’s leadership and drive led to the development of innovative engineering solutions, most notably standardized and prefabricated substations and modular control buildings, that better prepare AEP Transmission and the industry for success in the emerging competitive business environment. Moore shared his insights on those developments in a 2012 article for Transmission and Distribution World magazine. A newly launched AEP Transmission initiative aimed at modernizing transmission infrastructure with bold new designs and technology will benefit from Moore’s leadership, experience, and curiosity.

Shortly after earning a bachelor of science in electrical engineering from the Whitacre College of Engineering at Texas Tech in 1982, Moore became an AEP substation engineer in Abilene. In 2002, Moore completed the Wharton School of Business’ Executive Development Program. His climb within AEP paralleled rich contributions to his discipline and chosen industry.

Moore is a founding member of the North American Transmission Forum, which established best practices for achieving compliance standards under the 2005 Energy Policy Act. He is currently vice chairman for the board of directors. He has served as chair of the North American SynchroPhasor Initiative, and in 2009 became a member of the Consortium for Electric Reliability Technology Solutions Industry Leader Council. He has also been active on committees for the Association of Edison Illuminating Companies, Edison Electric Institute, Future Power Grid Initiative, STP Transmission Committee, Texas Reliability Entity, North American Electric Reliability Corporation, and Texas Tech Department of Electrical and Computer Engineering Industry Advisory Board.

Moore’s commitment to excellence reaches into the communities he has called home. An Eagle Scout since 1975, Moore has served the Boy Scouts of America (BSA) in various roles from assistant scoutmaster to his current position as president of the Simon Kenton Council, which manages BSA affairs in 18 Ohio counties. Since 2006, Moore has been a board member for the Columbus, Ohio affiliate of Habitat for Humanity, and has helped build homes locally and in Thailand, Mexico, Ecuador and Ghana.
Dr. James “Jim” Thompson is the dean of the University of Missouri College of Engineering, and has served since 1994. He was previously the dean of engineering at the University of New Mexico.

Thompson received a bachelor of science in 1968, a master of science in 1970, and a Ph.D. in 1974, all in electrical engineering from Texas Tech University. His areas of technical specialization include high voltage, electro-optics, electrical breakdown phenomena, pulsed power systems and devices, lasers, fast electrical and optical diagnostics, high power switches and dielectric materials.

He is a registered professional engineer and a fellow of the Institute of Electrical and Electronics Engineers (IEEE). He was elected honorary doctor of the Institute for Electrophysics in Russia in 1992 for his achievements in the areas of discharges in vacuum and high power pulsed technology. He has also been recognized for his successes in promoting international research and education cooperation with Russia, China, India, Iraq, and other countries.

Thompson has initiated and grown college programs to increase engineering enrollment, student graduation rates, improving classroom success and learning. He has been involved in pre-college programs and numerous programs at the collegiate level for minority and women-focused retention and success both at the University of Missouri (MU) and the University of New Mexico (UNM), increasing access to engineering education and student diversity.

He has contributed to the success of the undergraduate program at MU by helping to grow enrollment by two and half times and improving retention and graduate rates. Thompson also contributed to substantial growth of the research programs at both the University of Missouri and UNM, with MU research expenditures growing from 2 million dollars to approximately 35 million dollars per year.

Thompson is married to Elizabeth Thompson, who is also a Texas Tech graduate, and both are from Lubbock. They have four children and eight grandchildren.
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Distinguished Engineers

2012
Capt. John D. Alexander Mechanical 1982
Elizabeth E. Holland Industrial 1984
James F. Lowder Mechanical 1984
Alan L. Smith Petroleum 1985

2011
Randy Crawford Chemical 1949
Terry Fuller Petroleum 1977
Paul Grimmer Chemical 1977
Mary Anne Hicks Industrial 1979
Jack Rentz Mechanical 1974

2010
Jeff Bayer Civil 1979
Mica Endsley Industrial 1982
Allen D. Howard Electrical 1978
Randy Howard Mechanical 1972

2009
Blake W. Augsburger Electrical 1987, 1989
Chi-Ming Chang Industrial 1983, 1986
James A. Edmiston Petroleum 1982
J.G. “Greg” Soules Civil 1979, 2009
Shelby Johnson Const. Engr. Tech. 1986

2008
Duffer B. Crawford Chemical 1941
Thomas J. Zachman Civil 1974

2007
David H. Barr Mechanical 1971
G. Kemble “Kem” Bennett Industrial 1970
William B. Hagood Civil 1969
Harold R. Inman Petroleum 1950

2006
Ajay M. Marathe Industrial 1983
Jerry L. Morgensen Civil 1965
Travis A. Simpson Electrical 1981

2005
J. Gregory Boyd Civil 1976
Francisco “Frank” Figueroa Electrical 1967
Gerald C. Murff Mechanical 1961
Alvin Dale Williams Engr. Tech. 1975

2004
Joseph J. Beal Civil 1968
Philip L. Frederickson Industrial 1978
Louis D. Jones Petroleum 1976
Ghun-h-Shing “C.S.” Lee Electrical 1978

2003
Roy A. Battles Mechanical 1969
William M. Marcy Electrical 1964, 1966
Fredrick S. Yeatts Electrical 1970

2002
Douglas E. Barnhart Civil Engineering 1969
Joseph C. Marz Chemical 1986
Jerry S. Rawls Mechanical 1967
Richard D. Smith Industrial 1966
Cloyce A. Talbott Petroleum 1958

2001
Ming Chiang Electrical 1978
Enoch L. Dawkins Petroleum 1960

2000
Robert C. “Bob” Banasik Industrial 1967
Robert R. Click Chemical 1948
W.R. “Rick” Hamm Civil 1970
Jimmy D. Williams Mechanical 1972

1999
Dale Courtney Industrial 1971
Julie Spicer England Chemical 1979
Dain M. Hancock Mechanical 1966
Raymond C. Vaughn Engr. Tech. 1973

1998
William “Bill” Hervey Textile 1949
David L. Hirschfeld Civil 1962
Raymond B. Ince Mechanical 1948
Thomas S. Moore Mechanical 1964, 1965
Steven W. Nance Petroleum 1978
Garth Nash Electrical 1963
Bill M. Sanderson Chemical 1960
David E. Sharbutt Electrical 1971
Charles F. Winder Industrial 1979

Read full biographies of all past Distinguished Engineers at www.coe.ttu.edu/de
Distinguished Engineers

1997
Woodrow W. Hitchcock  Mechanical  1969
Rick D. Husband  Mechanical  1980
Herbert A. Mang  Civil  1974
Jeff D. Morris  Chemical  1974
Harry L. Tredennick III  Electrical  1970

1992
Jack L. Byrd  Petroleum  1956
R. D. Cash  Industrial  1966
E. Max Merrell  Chemical  1957
James G. Renfro  Electrical  1959

1991
Arnold Maeker  Civil  1946
E. Dave Newman  Mechanical  1964
Albert A. "Pete" Smith  Electrical  1966
Bill G. W. Yee  Electrical  1961, 1964

1990
William A. Blackwell  Electrical  1949
R. David Damron  Chemical  1971
Robert E. Dragoo  Mechanical  1962
Bill D. Helton  Electrical  1964
Allen P. Penton  Chemical  1957

1989
Chester A. Green  Civil  1947
Jerry D. Holmes  Electrical  1959
Charles E. Houston  Electrical  1931
Joseph E. Minor  Civil  1974
L. Homer Moeller  Industrial  1962

1988
Melvin Bobo  Mechanical  1949
E. R. Brooks  Electrical  1961
H. Bennett Reaves  Civil  1948
Noel D. Rietman  Petroleum  1957

1987
George C. Beasley, Jr.  Mechanical  1947
James A. McAuley  Petroleum  1953
J. Garland Threadgill  Civil  1950
D. Wyman Tidwell  Chemical  1961

1986
Gerald L. Furrar  Chemical  1942
T. Scott Hickman  Petroleum  1957
Robert E. Hogan  Civil  1950
George F. Watford  Petroleum  1948

1985
Glenn C. Bandy  Electrical  1949
James W. Clifton  Electrical  1960
Jesse L. George, Jr.  Petroleum  1947
Charles L. Harris  Textile  1947
James W. Lacy  Petroleum  1949
Bob J. Lewis  Civil  1949
Russell H. Logan  Electrical  1951
Wendell Mayes, Jr.  Electrical  1949
William D. Trammell  Chemical  1957
Edward E. Whitaacre Jr.  Industrial  1964
Alpha M. Wiggins  Electrical  1933

1984
Jerry C. Edmonson  Electrical  1963
Robert L. Hale  Textile  1948
John C. Mihm  Chemical  1964
James P. Myers  Industrial  1969
Thomas J. Reeves  Civil  1963
Kenneth W. Robbins  Petroleum  1943

1978

1979

1980

1981

1982

1983

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<td>E. Carlyle Smith Jr.</td>
<td>Architect. &amp; Civil</td>
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<td>Orval L. Lewis</td>
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<td>Joe A. Stanley</td>
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<td>Walter D. Warren</td>
<td>Electrical</td>
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The Distinguished Engineer Award

The measure of a college’s distinction and influence depends greatly upon the achievement of its former students and the positions they earn for themselves in their respective communities and fields of endeavor. To recognize some of the most outstanding former students of Texas Tech University, the Whitacre College of Engineering has established the Distinguished Engineer Award.

This year’s awards mark the 47th anniversary of the program, initiated by Dean John R. Bradford in the 1966-67 academic year.

Purpose and Philosophy

The purpose of this program is to recognize and honor former engineering students who have made significant contributions to society and whose accomplishments and careers have brought credit to the Whitacre College of Engineering at Texas Tech, and to the engineering profession as a whole.

This program does more than honor these former students. It spotlights the accomplishments of the Whitacre College of Engineering, and thereby increases the pride of former students, current students, faculty, and staff.

It likewise presents to the people of Texas and the nation tangible evidence of the effectiveness of the progress of engineering at Texas Tech.

In establishing this program, it was recognized that these awards were to be given for outstanding achievement both inside as well as outside the profession and that no compromises diminishing the significance of the awards would be made.

To be eligible for the Distinguished Engineer Award, an individual must:

• Be distinguished in his/her profession, life work, or other worthy endeavors, and have received recognition from contemporaries.

• Be a person of such integrity, stature, and demonstrated ability that the faculty, staff, students, and alumni will take pride in and be inspired by his/her recognition.

• Have demonstrated a continuing interest in areas outside of the fields of engineering such as to bring honor and prestige to the profession.

• Have been a student in the Whitacre College of Engineering of Texas Tech University.