An engineering degree is the ticket to a wide variety of career choices. These OU alumni are among countless others who took their educational experience to the highest professional level.

**OKChE Board Members**

**Mr. Kenneth Applegate**  
Vice President-Wholesale Marketing  
Valero Energy

**Mr. Randall Couch**  
Principal  
Crossover Resources, LLC

**Mr. Robert Dye**  
Vice President-Investor Relations  
Apache Corporation

**Dr. Larry Evans**  
CEO  
Rive Technology, Inc.

**Mrs. Haley Finkelman**  
MTO Economics Planner  
ExxonMobil

**Dr. Bruce A. Finlayson**  
Professor Emeritus of Chemical Engineering

**Dr. David C. Kendrick, MD, MPH**  
Chief Medical Officer  
MedUnison, LLC

**Mr. Spencer Knapp**  
Monsanto, Co. (Retired)  
 Produce Director, North Pacific

**Mr. Michael E. Lee**  
Assistant General Counsel  
ChevronPhillips Chemical Co.

**Mr. E. Keith Mitchell**  
Vice President- Transportation Services  
Enogex, Inc.

**Mr. Kyle Pearson**  
President  
Pearson & Associates LLC

**Mr. Robert S. Purgason**  
Chief Operating Officer  
Crosstex Energy Services

**Mr. Steve Raybourn**  
President  
Raydon Exploration, Inc.

**Dr. Pamela Tucker**  
Vice President  
Utility Composites, Inc.

**Mr. John Waller**  
President-Retired  
Cottonwood Corporation

**Dr. Lance L. Lobban**  
Ex-officio  
OKChE Board of Directors

This publication is issued by the University of Oklahoma College of Engineering at no cost to the taxpayers of the State of Oklahoma. The University of Oklahoma is an equal opportunity institution. ©2007 University of Oklahoma.
harrison wins award...

Roger Harrison, associate professor in CBME, was awarded the 2006 American Society for Engineering Education’s (ASEE) Meriam/Wiley Distinguished Author Award in recognition of his textbook, Bioseparations Science and Engineering. The award recognizes the top textbook of the year among all engineering disciplines.

Harrison was the lead author of the textbook along with three co-authors, Paul Todd, Scott R. Rudge and Demetri P. Petride. The book was published by Oxford University Press.

Bioseparations, which involves the separation and purification of compounds of biological origin, has developed as a significant discipline within the general field of biochemical engineering. The purpose in writing this book was to provide the most comprehensive and authoritative text on the science and engineering of bioseparations.

The text is designed for juniors, seniors and graduate students, and is also intended to be useful for practitioners in industry.

To date, a total of 50 universities around the world have adopted the book for teaching. The U.S. universities adopting it include Princeton, Cornell, Carnegie-Mellon, Texas A&M, UCLA, and Northwestern. Universities outside the U.S. include Imperial College, London; India Institute of Technology-Bombay; Munich University of Technology; and Engineering College of Aarhus in Denmark.

Harrison and his coauthors have started planning the second edition of the book.

david schmidtke wins career award...

In 2006, associate professor David Schmidtke was awarded the National Science Foundation’s prestigious Career Award. Schmidtke received $400,000 in funding for a span of five years for his research on single-walled carbon nanotube based biosensors.

Each year, the National Science Foundation solicits proposals from a variety of disciplines, looking for creative plans that effectively integrate research and education.

Schmidtke’s proposal was titled “Biosensors Based on Carbon Nanotube-Redox Polymer Composites.” The emphasis of the research is to develop more advanced and smaller biosensors that can be used in a variety of applications, such as medical diagnostics, remote sensors in environmental monitoring and as online sensors in the food and pharmaceutical industries.

Schmidtke joined the OU faculty in 2000.

CBME distinguished grad serves as president of AIChe...

Larry Evans, who graduated with a chemical engineering degree from OU in 1956, is currently serving as President of AIChe. He is the Founder and formerly Chairman of Aspen Technology, Inc.- a leader in supplying process engineering, manufacturing and supply chain solutions to the process manufacturing industries. Aspen has grown from eight employees at its start to more than 1,800 employees today.

In addition to serving as AIChe president, Evans is the current chair of the OkChe Board and serves on the College of Engineering Board of Visitors.

Evans received his master’s degree from the University of Michigan and a Ph.D. in chemical engineering from the University of Michigan. He was a professor of chemical engineering at the Massachusetts Institute of Technology from 1962 to 1990, where he was the principal investigator on the ASPEN Project, which led to the founding of Aspen Technology.

He and his wife, Beverley, currently live in the Boston area.
After 25 years of teaching, 178 journal articles, millions of dollars in research grants, 5 books and 18 patents, John Scamehorn, Asahi Glass Chair and George Lynn Cross Research Professor, is retiring in July.

Scamehorn received his B.S. and M.S. from the University of Nebraska in 1973 and 1974 and his Ph.D. from the University of Texas in 1980. Before coming to OU, he spent time in industry as a research engineer for Conoco Inc. and Shell Development Company. He has been the co-founder and director for the Institute for Applied Surfactant Research since 1986.

Scamehorn will remain active in his research, but plans to spend more time scuba diving, traveling and playing tennis.
Two teams from OU’s AIChE group placed at the Mid-America Conference March 30-April 1 in Rolla, Missouri. The Mid-America region comprises thirteen schools in the several-state area. CBME brought two chem car teams to the conference. The teams were lead by senior Matt Behring and junior Dan Dobesh. Matt’s team won first place in the performance competition and Dan’s team won third place in the same category. In the performance competition, cars are to travel an exact distance carrying a variable weight. The teams are given the distance and weight one hour before the competition, and must adjust the car’s fuel and/or timing system accordingly.

Behring’s team traveled to within 9 inches of the specified distance. Dan’s team also took first place in the chem car poster competition and received an award for most creative drive system. Each team received plaques as awards, and Matt’s team automatically advances to the national competition.

Additionally, CBME senior Sarah Shobe placed third in the research paper contest. Sarah’s research was supervised by Professor John Scamehorn.

In July 2005, CBME welcomed Alberto Striolo to the faculty as an assistant professor. Dr. Striolo was a research associate at Vanderbilt University prior to coming to the University of Oklahoma. Striolo graduated with a B.S. in Chemical Engineering from the University of Padova-Italy in 1998, and earned his Ph.D. from the same university in 2002.

Striolo teaches Process Control for undergraduate students and is developing an elective course on porous materials and their applications.

Some of Striolo’s research projects include Adsorption of Polymers, Nano-Colloidal Systems, Molecular Lubricants and Carbon Nanotubes.

In addition to conducting numerous research projects, Striolo has written articles for publications such as the Journal of Chemical Physics and the Biophysical Journal.

SURBEC, LLC, which recently celebrated its 10th birthday, was founded by CBME Professor Jeff Harwell and colleagues at OU to commercialize surfactant-based remediation technologies they had invented. Surbec (www.surbec.com) is a leader in in-situ remediation of groundwater and soil (as Jeff puts it, they wash dirt) and has grown to 31 employees, including four engineers, two geologists, a chemist, a microbiologist, and a geochemist. Surbec is on track to do $6 million in business in 2007, with recent or current projects in Oklahoma, Arkansas, Iowa, and Vermont. In December 2006, Surbec received the National Ground Water Association Award for an Outstanding Ground Water Remediation Project. Jeff is the Conoco/DuPont Professor of Chemical Engineering and a George Lynn Cross Research Professor.