

The University of Kansas School of Engineering

# Chemical and Petroleum Engineering Department



## Hall of Fame Awards

May 2<sup>nd</sup>, 2015

*Honoring*  
Lance L Lobhan  
*and*  
David R Zornes

## Chemical and Petroleum Engineering Hall of Fame

In 1996, The University of Kansas Department of Chemical and Petroleum Engineering established the Alumni Hall of Fame to honor its outstanding graduates. The goal of this award is to seek out individuals who have made important contributions to the Chemical or Petroleum Engineering professions, the Chemical and Petroleum Engineering Department, or the School of Engineering, or have been outstanding role models for current and future engineering students.

Each nominee is a graduate of the KU Chemical and Petroleum Engineering department, and has made noteworthy contributions to the theory or practice of engineering. Each have given substantial service to our profession, or the University of Kansas.

The Chemical and Petroleum Engineering department is proud of the remarkable contributions made by each Hall of Fame Recipient. We are honored by their commitments to excellence, and their presence this evening.

## Lance L. Lobban



### 2015 C&PE Hall of Fame Inductee

Dr. Lance Lobban received his BS in Chemical Engineering from the University of Kansas in 1981 and his PhD, also in Chemical Engineering, from the University of Houston in 1987. He joined the University of Oklahoma in 1987 after receiving his PhD. Dr. Lobban is the Francis W. Winn Chair in the School of Chemical, Biological and Materials Engineering at the University of Oklahoma. He served as the director of CBME for 16 years, from 1998 to 2014, when he returned to full time teaching and research. His current research activities focus on catalytic conversion of biomass to liquid fuels and chemicals. He is the author or co-author of over 65 archival journal articles, three patents, and numerous technical presentations and seminars.

His research focuses on catalysis and reaction engineering. His group combines experimental measurement with theoretical analyses of reaction mechanisms in order to better understand and improve catalytic and non-catalytic chemical reaction processes. The operating conditions of the reacting systems

studied include gas phase reactions at temperatures up to 800°C, liquid phase reactions at room temperature and below, solid biomass reactions over a range of temperatures, photocatalytic reactions and reactions in cold plasmas. The experimental techniques have included steady and unsteady (transient) state kinetics measurements, adsorbed species identification using diffuse reflectance Fourier transform infrared spectroscopy and measurement of isotopic species using mass spectrometry.

His current research involves thermochemical conversion of biomass to fuels and chemicals. He is investigating both conversion of natural fats and oils to diesel fuel and petrochemicals, and conversion of lignocellulosic biomass to hydrocarbon fuels and chemicals. Although the “refining” of biomass has analogies to refining of petroleum, biomass is highly oxygenated, and conversion to hydrocarbons requires new catalysts, reactors and reaction conditions that differ greatly from those used in petroleum refining. A huge challenge in development of these biomass conversion systems is the smaller scale at which they must operate due to the distributed nature of biomass resources.

Dr. Lobban has received multiple teaching and service awards at the University of Oklahoma at the department, college and university level, including the Mortar Board Top Ten Faculty Award, the University of Oklahoma Presidential Professorship, the Board of Regents Award for Superior Teaching, and the departmental outstanding instructor award more than ten times.

Lance has served as a member on the C&PE advisory board since 1996. Because of his distinguished career, service to the engineering profession, and dedicated support of the Department of Chemical and Petroleum Engineering, Dr. Lance L. Lobban is inducted in 2015 CPE Hall of Fame.

## David R. Zornes



### 2015 C&PE Hall of Fame Inductee

David R. Zornes has 35 years of technical and managerial experience with Phillips and ConocoPhillips in the areas of reservoir Engineering, EOR, completion and production related research and technical services. Currently, he is a consultant in reservoir technology to the University of Texas Advanced Energy Nano-Technology Consortium. Significant service to the KU CPE department comes from his service on the TORP Advisory Board. David has championed funding and advice on TORP's nano-technology EOR project within ConocoPhillips.

David has been active in the Society of Petroleum Engineers for 40 years serving the Bartlesville section as President and Program Chair, and society-wide on program committees for important international meetings and on several standing committees. He served five times on the organizing committee for the bi-annual SPE/DOE/IOR Symposium and was a leader in

the development of SPE's R&D section and its 2009 Conference. In 2010 he was named an SPE IOR Pioneer, and in 2009 he received the SPE Mid-Continent Service Award. David has also been active in API and AIChE. David received BS and MS degrees in Chemistry/Physics Education from Emporia Kansas State University and an MS degree in Chemical Engineering from KU in 1976. David is the holder of five patents, has numerous pending patents and has authored or co-authored more than 20 papers in the areas of enhanced oil recovery and CO<sub>2</sub>-hydrates research.

David has diligently served as a member of the Tertiary Oil Recovery Project Advisory Board for about 10 years. He was the principal contact on a joint COP-KU research project to develop and use nano-versions of EOR and oilfield chemicals to improve their efficiencies.

Because of his distinguished career, service to the engineering profession and dedicated support of the Department of Chemical and Petroleum Engineering, David R. Zornes is inducted into the 2015 CPE Hall of Fame.

# The Chemical and Petroleum Engineering Hall of Fame

## Inducted 1996

David R. Boylan, Jr. '43  
(Iowa State Univ.)  
B.S. Chemical Engineering

Paul Haney '33  
(Black and Veatch)  
B.S. Chemical Engineering

Charles R. Clark '68  
(Conoco)  
B.S. Chemical Engineering,

Roy M. Knapp '63,'69,'73  
(University of Oklahoma)  
B.S., M.S., Ph.D. Chemical  
Engineering

Joseph W. Davison '43  
(Phillips Petroleum)  
B.S. Chemical Engineering

Dale R. Laurance '71,'73  
(Occidental)  
B.S., M.S., Ph.D. Chemical  
Engineering

William C. Douce '42  
(Phillips Petroleum)  
B.S. Chemical Engineering

Paul M. Pancratz '55  
(Dow Chemical)  
B.S. Chemical Engineering

Thomas F. Edgar '67  
(Univ. of Texas)  
B.S. Chemical Engineering

James Russell  
(Russell Petroleum)  
B.S. Petroleum Engineering,

## Inducted 1997

Stanley M. Englund '50  
(Dow Chemical, Midland  
Engineering Ltd.)  
B.S., Chemical Engineering,

William M. Nofsinger '55  
(Nofsinger, Inc.)  
B.S. Chemical Engineering,

George W. Swift '53,'57,'59  
(Univ. of Kansas)  
B.S., M.S., Ph.D. Chemical  
Engineering

## Inducted 1998

Russell B. Mesler, '48  
(Univ. of Kansas)  
B.S. Chemical Engineering,

Charles E. Sturgeon, '51  
(Vulcan Chemical Co.)  
B.S. Chemical Engineering

## Inducted 1999

Paul L. Hellman, '59  
(Mobil Oil Co.)  
B.S. Petroleum Engineering

Kyle D. Vann, '69  
(Koch Industries)  
B.S. Chemical Engineering

## Inducted 2000

John A. Davis, '58, '63  
(Marathon Oil Co.)  
B.S., Ph.D. Chemical  
Engineering

Robert H. Smith, '64, '70  
(Black & Veatch-Pritchard)  
B.S., M.S., Chemical  
Engineering

## Inducted 2002

Allyn W. Riskey '72  
(Phillips Petroleum Co.)  
B.S. Petroleum Engineering

## Inducted 2003

Linda Z. Cook, '80  
(Shell Oil - Canada)  
B.S., Petroleum Engineering

Linda S. Ellis, '78  
(Exxon-Mobil)  
B.S. Chemical Engineering

## Inducted 2004

Christine Ehlig-Economides,  
'77 (Univ. of Houston)  
B.S. Petroleum Engineering

Michael J. Economides, '74,  
'76 (Univ. of Houston)  
B.S. Petroleum Engineering

## Inducted 2006

Elmer L. Dougherty, '50  
(Univ. of Southern California,  
Maraco, Inc.)  
B.S. Chemical Engineering

## Inducted 2007

Stanley T. Myers, '60  
(Semiconductor Equipment  
and Materials International)  
B.S., Chemical Engineering

## Inducted 2009

Edmund H. Fording, JR, '59  
(Synthetic Organic Chemical  
Manufacturers Association)  
B.S. Chemical Engineering

Frank Komin, '78  
(Occidental Petroleum)  
B.S. Petroleum Engineering

John E. McElhiney, '61 & '63  
(20/20 Reservoir Resources)  
B.S., M.S., Chemical  
Engineering

## **Inducted 2010**

Dawood M. Al-Dawood, '88  
(Saudi Aramco)  
B.S. Petroleum Engineering

## **Inducted 2011**

Al Self, '43  
(Allen Financial, Tioga  
International)  
B.S. Chemical Engineering

J. Bert Ladd, '49  
(Ladd Petroleum Corporation)  
B.S. Petroleum Engineering

J. T. (Tim) Hood, '62  
(Lockheed Martin)  
B.S. Chemical Engineering

## **Inducted 2012**

Mark F. Heinrich, '79, '89  
(Naval Supply Systems  
Command (NAVSUP))  
B.S., Petroleum Engineering,  
M.S. Business Administration  
and Petroleum Management

Lanny G. Schoeling, '83, '93  
(Kinder Morgan CO<sub>2</sub>  
Company)  
M.S., Ph.D., Chemical  
Engineering

## **Inducted 2013**

Kyle A. Mathis, '90  
(Chevron Phillips Chemical  
Company)  
B.S., Chemical Engineering

## **Inducted 2014**

James C. Remsberg, '57  
(Conoco, Argent Energy)  
B.S., Petroleum Engineering

Patrick R Oenbring, '74  
(Hawkwood Energy, LLC)  
B.S., Chemical Engineering