

LANCE L. LOBBAN

PROFESSIONAL PREPARATION

University of Kansas
University of Houston

B.S. Chemical Engineering, 1981
PhD Chemical Engineering, 1987



APPOINTMENTS

- Director, School of Chemical Engineering and Materials Science, University of Oklahoma, September, 1998 – present; Professor of Chemical Engineering, 1999-present; Associate Professor of Chemical Engineering, 1993-1999; Assistant Professor, 1987-1993.
- Guest Associate Professor, Tianjin University, Peoples Republic of China, 1996.
- Visiting Professor, Chulalongkorn University, Bangkok, Thailand, 1994, 1996, 2000, 2001, 2002, 2003
- Consulting: University Technologists, Inc., May, 1989 - present; Conoco, Inc., May, 1990 - May, 1991.
- Chemical Engineer, National Cooperative Refinery Association, McPherson, Kansas, Summer, 1981.

PUBLICATIONS

Relevant to proposed research

1. Do, P.T., M. Chiappero, L.L. Lobban and D.E. Resasco, "Catalytic Deoxygenation of Methyl Octanoate and Methyl Stearate on Pt/Al₂O₃," *Catalysis Letters*, 130 (2009) p. 9-18.
2. Pham, Trung, L.L. Lobban, D.E. Resasco and R.G. Mallinson, "Hydrogenation and hydrodeoxygenation of 2-methyl-2-pentenal on supported metal catalysts," *J. Catalysis* (2009).
3. Sooknoi, T.; Danuthai, T.; Lobban, LL; Mallinson, RG; Resasco, DE; "Deoxygenation of Methyl Esters over CsNaX," *J. Catalysis* 258 (2008) 199-209.
4. Chavadej S., Saktrakool K., Rangsunvigit P., Lobban LL., and T. Sreethawong; "Oxidation of ethylene by a multistage corona discharge system in the absence and presence of Pt/TiO₂," *Chem. Eng. Journal*, **132** (1-3), 345-353, 2007.
5. Kado, Shigeru; Sekine, Yasushi; Nozaki, Tomohiro; Okazaki, Ken; Lobban, Lance L.; Mallinson, Richard G., Steam reforming of methanol over Cu-Zn catalyst supported on g-Al₂O₃. *Kagaku Kogyo*, **56**(12), 902-907, 2005.

Other selected publications

6. Chavadej, S., Supat, K., Lobban, L. L., and Mallinson, R. G. (2005) "Partial Oxidation of Methane and Carbon Dioxide Reforming with Methane in Corona Discharge with/without Pt/KL Catalysts," *Journal of Chemical Engineering of Japan*, **38**, 1, 163-170
7. Le, H., T. Hoang, R. Mallinson, and L. Lobban, "Combined Steam Reforming and Dry Reforming of Methane, 175," *Studies in Surface Science and Catalysis, Volume 147, Natural Gas Conversion VII*, X. Bao and Y. Xu, Eds., Elsevier, NY, 2004.

8. Gordon, C. L., L. L. Lobban and R. G. Mallinson, "Ethylene Production Using a Pd and Ag-Pd Y-Zeolite Catalyst in a DC Plasma Reactor," *Catalysis Today*, **84** (1), 51, 2003.
9. Le, H., L.L. Lobban, and R.G. Mallinson, "Some temperature effects on stability and carbon formation in low temperature AC plasma conversion of methane," *Catalysis Today*, **89** (1-2), 15 (2004).
10. K. Supat, S. Chavadej, L. L. Lobban and R. G. Mallinson; "Combined Steam Reforming and Partial Oxidation of Methane to Synthesis Gas under Electrical Discharge," *Ind. Engr. Chem. Res.*, **42**, 1654 (2003).

SYNERGISTIC ACTIVITIES

- Director of School of Chemical, Biological and Materials Engineering
- Outstanding chemical engineering professor (1992, 1996, 1998, 2000, 2002, 2004)
- College of Engineering Brandon Griffith award for student advising.
- OU Student Association Outstanding Professor in the College of Engineering (1994)
- Richard M. Cyert Outstanding Team Award (1993) (Awarded for contributions in the recruitment of National Scholars to OU)
- Baldwin Study/Travel Award for Excellence in Undergraduate Teaching (1992)
- Referee: *Chemical Engineering Science, Applied Catalysis A, Applied Catalysis B, Energy & Fuels, Industrial and Engineering chemistry Research, Journal of Physical Chemistry, Journal of Catalysis*

COLLABORATORS & OTHER AFFILIATIONS

(a) Collaborators (other than the ones appearing in the publication list): Robert Brown, Iowa State University; Brent Shanks, Iowa State University

(b) Advisor: Dan Luss, University of Houston

(c) Students (total of 25): F Otero, W.-Y. Tung, M Bisaria (DuPont), S. Bhumkar, Q. Song, D Wong, S. Al-Zahrani (King Faud University), B. Ajmera, A. Marwah, C.-C Yu, A Marafee (Kuwait Institute of Science and Technology), C. Gonzalez, C. Thakulsukanant, Z. Wang, B. Murthy, B.J. Hill (Dowell Schlumberger), P. Howard, R. Armstrong (ConocoPhillips), M. Dreyer, B. Nuyen, H. Le (University of Oklahoma), C. Gordon (Halliburton), L. Moch, J. Arias, M. Chiappero