

Students, postdoctoral fellows, and visiting scientists of M. Albert Vannice

Ph.D. and Masters students with thesis titles

Malcolm B. Palmer (1979, MS) The effect of preparation variables on the dispersion of supported platinum catalysts

Joseph Smith (1980, MS) The crystallite size distribution and adsorption behavior of titania-supported nickel

Stephen S.-Y. Wang (1980) A kinetic and infrared study of carbon monoxide adsorption and hydrogenation on palladium catalysts

Hyun Jong Jung (1981) Carbon-supported iron catalysts for CO hydrogenation

Chun-Chien (Fred) Twu (1981) A kinetic and infrared study of carbon monoxide adsorption and hydrogenation on supported platinum catalysts

Jorge Vasco-Jara (1981, MS) The catalytic behavior of Ni/TiO₂ and mixtures of Ni/TiO₂ and Pt/TiO₂

Yu-Lin Chao (1982, MS) Preparation of high surface area silicon carbide catalyst supports for platinum and nickel

Michael Mitchell (1982, MS) The adsorption and catalytic behavior of rare earth oxide supported palladium catalysts

Doris Strohmayer (1982, MS) The adsorption properties and sintering behavior of supported silver catalysts

Ki June Yoon (1982) Benzene hydrogenation over supported iron catalysts

Lori Hasselbring (1983, MS) Calorimetric measurements of the heats of adsorption of hydrogen and carbon monoxide on supported platinum catalysts

Marc Berube (1984, MS) Support effects on sulfur tolerance and selectivity of palladium CO hydrogenation catalysts

Andrew A. Chen (1985, MS) Characterization of cluster-derived Fe–Co/C and K–Fe–Co/C catalysts for CO hydrogenation

Jeremia Venter (1985, MS) Characterization of cluster-derived Fe–Mn/C and K–Fe–Mn/C catalysts for CO hydrogenation

Mark Kaminsky (1985 Ph.D. in Chemistry with G.L. Geoffroy and N. Winograd) Investigation of the reaction intermediates and catalyst composition that are relevant for CO hydrogenation

Thomas Long (1986, MS) A transient kinetic and infrared study of carbon monoxide hydrogenation on supported platinum catalysts

Pen Chou (1986) The influence of the support, pretreatment, and crystallite size on benzene hydrogenation and heats of adsorption of hydrogen, oxygen, and carbon monoxide on palladium

Juergen K. Plischke (1987, MS) Adsorption behavior of silica-supported silver catalysts

Andrew A. Chen (1988) Metal phase and structural characterization of iron and palladium catalysts by Mössbauer effect spectroscopy, transmission electron microscopy/energy dispersive X-ray spectroscopy and solid-state nuclear magnetic resonance

Jeremia J. Venter (1988) A DRIFTS (diffuse reflectance infrared Fourier transform spectroscopy) characterization of carbon-supported osmium, ruthenium, iron, and iron-manganese catalysts

Samuel Kelly (1987, MS) Development of a microwave hall effect technique to characterize heterogeneous catalysts

Bishwajit Sen (1987) The influence of metal–support interactions and crystallite size on the adsorption and catalytic behavior of platinum catalysts

Carlos A. Leon y Leon (1988, MS) The preparation and characterization of bimetallic silica-supported Pd–Cu catalysts

Kristen Anderson (1989 MS) Oxygen and olefin heat of adsorption measurements on alumina-supported silver

Mohammed Rahaman (1989, MS) The hydrogenation of toluene and *o*-, *m*-, and *p*-xylene over palladium catalysts

Kyung-Il Choi (1990) CO oxidation over unreduced and reduced palladium chloride, cupric chloride, and their mixtures dispersed on alumina and carbon

Nalini Krishnankutty (1990, MS) Characterization of carbon supported iron, iron-potassium, iron-manganese, and iron-potassium-manganese systems, using magnetic methods

- Juergen K. Plischke (1990) Characterization of silver crystallites by solid-state nuclear magnetic resonance spectroscopy of silver-109 and carbon-13-enriched ethylene and oxygen heats of adsorption
- Robert Petrich (1991, MS with L. Radovic) A kinetic study of coke removal from three cationic forms of deactivated Y-zeolite
- Byung-Ki Na (1991) Measurement of electrical properties of small particles using a microwave hall effect (MHE) technique
- Paul E. Fanning (1992, MS) Characterization of carbon surfaces using diffuse reflectance infrared Fourier transform spectroscopy
- Sheng-Diann Lin (1992) The influence of metal–support interactions on the activity and selectivity of gold and platinum catalysts
- Mark Bollinger (1994, MS) Low temperature oxidation of carbon monoxide over gold/titania catalysts
- Nalini Krishnankutty (1994) The effect of pretreatment on the adsorption, absorption, and catalytic behavior of carbon-supported palladium
- Xiangmin Li (1994, MS) A study of conduction electron spin resonance in small silver particles on silica
- Ching-Feng Mao (1994) Adsorption and catalytic properties of high surface area (HSA) alumina and silver dispersed on (HSA) alumina
- Fabio B. Passos (1994 with M. Schmal) Adsorption and catalytic behavior of Al₂O₃-supported Pt–Sn and Pt–In
- Paul E. Fanning (1995) Catalytic nitrous oxide decomposition and synthesis reactions using acetylene and ammonia
- Chan-Chiung Lui (1995) Measurement of electrical properties of powders using microwave hall effect and absorption techniques
- Shu-Jiuan (Amy) Huang (1996, MS) Adsorption and reduction of NO by H₂ or CO over La₂O₃
- Deepak Poondi (1996) Hydrogenation of aromatic hydrocarbons, benzaldehyde, and phenylacetaldehyde over Pt & Pd catalysts
- Tatsuji Yamashita (1996) NO_x decomposition over Mn oxides
- Michael C.J. Bradford (1997) CO₂ reforming of CH₄ over supported metals
- Ajit Dandekar (1998) Crotonaldehyde hydrogenation and N₂O decomposition over well characterized Cu catalysts
- Shu-Jiuan (Amy) Huang (1998) A TPD and IR study of NO adsorption on La₂O₃
- Rajeev S. Rao (1998) Supported Cu catalysts: characterization of dielectric properties and their catalytic behavior
- Mark Masson (2000, MS) The influence of Pt crystallite size on liquid-phase citral hydrogenation
- Utpal K. Singh (2000) Liquid-phase hydrogenation reactions over group VIII metals
- Willy Rachmady (2001) Acetic acid hydrogenation over Pt, Fe and Pt–Fe catalysts
- Robert M. Rioux (2001, MS) Isopropanol dehydrogenation over carbon-supported Cu, Pt and Cu–Pt catalysts
- Todd J. Toops (2001) Kinetics of NO_x reduction by CH₃OH or CH₄ as well as CH₄ combustion over La₂O₃-based catalysts
- Jale Muslehiddinoglu (2002) Characterization of supported and promoted silver epoxidation catalysts using molecular probes
- Adrian David (2004, MS) Reduction of 4-chloro-*N,N*-dibenzylaniline in H₂ over supported Pd catalysts
- Samrat Mukherjee (2005) Solvent effects in catalytic hydrogenation reactions

Postdoctoral fellows and visiting scientists
(PD: postdoctorate; VS: visiting scientist; VP: visiting professor)

Dr. Manesh V. Badani (PD)	Prof. Ljubisa R. Radovic (PD)
Dr. Dan Barabino (PD)	Prof. Magnus Ronning (PD)
Prof. S. Chen (VP)	Prof. Concepcion Salinas (VS)
Dr. Juan Coronado (PD)	Dr. Diane Sanders (PD)
Dr. Fei Dong (VP)	Prof. Martin Schmal (VP)
Dr. Victoria Gercher (PD)	Dr. Razi S. Seyedmonir (PD)
Prof. Hae-Won Kim (VP)	Dr. Chunlei Shi (PD)
Prof. Moon Hyeon Kim (PD)	Dr. Xueming Yang Shi (PD)
Prof. Sang Hwan Kim (VP)	Dr. Chukka Sudhakar (PD)
Prof. Beate Klingenberg (PD)	Dr. Byuk Sung (PD)
Dr. Zeming Liu (PD)	Dr. George Wagner (PD)
Prof. Jose Miguel Martin-Martinez (PD)	Prof. K. J. Yoon (PD)
Dr. Sang-Heup Moon (PD)	Dr. Xiankun Zhang (PD)
Prof. Carlos Moreno-Castilla (VP)	