Chemical Engineering

Thirty Sixth Annual Report to the Alumni

1984

OSU
The Ohio State University
Dear Alumni

It has been a productive year for our Department despite a number of personnel changes and a drop in the number of full-time faculty. It has, however, been a difficult year for many of our B.S. graduates.

First, the staff changes: One new faculty member has joined our staff. Prof. James F. Davis arrived last fall after instructing in the Mechanical Engineering Department at the University of Wisconsin for three semesters. Jim did his M.S. and Ph.D work at Northwestern. His Ph.D research was a study of simultaneous heat and mass transfer in a wetted wall column. His Bachelor's degree was obtained at the University of Illinois and he had three years experience with Amoco Chemicals in Naperville. Jim is also interested in computer-aided design and process control.

Prof. Slip Slider took early retirement last June as planned after 27 years of service. Slip continues to be active and helpful in the Department and will be teaching two courses in petroleum reservoir engineering in the spring quarter.

Prof. Christie Geankoplis took early retirement in September after 33 years of service. Christie is living in Minneapolis and is teaching part-time at the University of Minnesota. His contributions to the Department were many and we miss him.

There will be more faculty changes in the next year as we search for additional people. The searches are time consuming and sometimes frustrating, but we have recruited a number of fine new staff members in the past few years, faculty who are interested in teaching and research, and we expect to continue to do so.

Besides teaching (large) classes, our faculty have been active in research and professional activities. The publications, presentations, awards, invited lectures, service on national committees, etc. are listed under Publications and Presentations and Faculty Activities. I think you will agree that it has been a productive year. With a few additional faculty (and lighter teaching loads) we believe we can be even more productive.

As you know, the job market for B.S. chemical engineers was perhaps the worst ever last year, both nationally and for Ohio State graduates. The job market for M.S. and Ph.D graduates was quite a bit better. So many B.S. students left before getting jobs that our salary statistics are not meaningful this year, and we have omitted them for B.S. graduates. While the job market has improved some, we know that a number of graduates are still seeking employment and if any of you know of job opportunities they might apply for, please let us know.

This year we instituted an enrollment management program and now require a 2.3 grade point to enter our first stoichiometry course. In addition, the poor job market has discouraged some students. As a result, sophomore enrollment is down. The 2.3 entry grade point requirement is an experiment which we will monitor closely to see if any adjustments are needed.

A very heartening development during the past year was the increased contributions we received from alumni donors. More than $40,000 was received in alumni donations and matching funds in 1983. These funds and industrial grants provide the means for us to provide a margin of excellence in our teaching and research programs. I would like to encourage even greater alumni participation and urge those of you who are donors to Ohio State to designate the Department of Chemical Engineering for your contributions. The 1983 contributors are listed in this report.

Industrial contributions totalled $500,000, of which $150,000 were equipment contributions. We greatly appreciate the help of alumni at Amoco, PPG Industries, and Proctor and Gamble who helped steer valuable surplus equipment to us. We would welcome hearing of any surplus equipment items available in your companies.
We would like to hear of your significant professional accomplishments to bring our files up to date and, when space permits, will report them. A few items from the past year:

Bob Bates, '48, received the 1983 Fluor AIChE Award for Service to Society. Bob was also elected Co-Chairman of the OSU Chemical Engineering Advisory Committee. On his retirement last year, a group of his friends set up the Robert L. Bates Fund in the Department of Chemical Engineering.


Bill Grimes, '50, was elected Director of AIChE.

Bill Harris, '44, was appointed Group Vice President Chemicals of PPG Industries.

Ray Hammond, '49, who set up and supported the Raymond D. Hammond Scholarship Program in Chemical Engineering since 1972, retired to Florida.

Dick Morrow, Pet. Eng. '48, became Chairman of the Board and Chief Executive Officer of Standard Oil Company (Indiana).

Dave Stephan, '52, '55, received the Herman Schneider Distinguished Engineer Award given by the Technical Societies Council of Cincinnati.

For those alumni who have fond (or other) memories of the (temporary) Sawtooth Building, I must report that it is no more. It will be replaced by a four story chemistry laboratory to be completed by April, 1986. Pictorial evidence is shown inside.

We hope to see many of you on ACE Day.

Sincerely,

Jack Zakin

P.S. Betty Frazier Kurtz who was on our staff for years and edited the Annual Report the last few years retired in December.

1923 – D. C. Burts, A. Schwensen, E. C. Hendrickson
1921
George J. Wrasman
1922
Webster B. Kay
1923
Edgar C. Hendrickson
Edward D. Turnbull
1924
Glenn R. Hull
1926
William L. DeBruin
Chester G. Landes
Vincent A. Lauderman
1927
Samuel Aronoff
James L. Collins
1928
Arnold L. Nieman
1929
Frank L. Durr
Elwood B. Layfield
1930
Julius D. Stone
1931
Ned S. Fox
1932
Samuel S. Johnson
Cyril R. Porthouse
1933
Henry S. Curtis
John S. Eckert
Robert E. Elliott
Benjamin Finer
Leon K. Grove
Harold C. Klassen
1934
Clarence N. Fisher
William D. Martin
Lewis E. Michael
1935
Harvey J. Drake
Allan I. Cordon
Norbert K. Koebel
D. Ellis Neunherz
1936
Walter C. Lorenz
Richard A. Miller
Joseph G. Mravec
1937
Nicholas Falica
Harvey H. Grice
Philip B. Kraus
Gerald A. McFarren
Frederick R. Pullen
Robert T. Whitaker
1938
Norman C. Cammerer
John S. King
Frederick E. Miller
Robert S. Radow
George S. Tobias
1939
Gordon W. Goldrick
Howard G. Rohrer
Charles A. Rohrman
Paul L. Suter
1940
Clay H. Aneshansley
Charles H. Boardman
John A. Finch
Paul L. Fodor, Jr.
William R. Keller
Don E. Kennedy
Robert L. Lambert
Arthur G. Mayer
Louis J. Nowacki
Francis J. Van Der Werf
1941
Leland W. Blazey
Doris S. Hall
Richard F. Lescher
James R. Robinson
David Thomas
Robert L. Valdvoegel
1942
Donald O. Arnold
Randal E. Bailey
Charles H. Horch
John J. Hur
Maruice M. Lowman
Glenn E. Winternute
1943
William H. Cameron
Halvor S. Christianson
Carl F. Effler
Glenn L. Gifford
Leonard A. Harris
Bryce D. Inman
Myrl E. Miller
James R. Randall
Raymond K. Ritzert
Ray E. Schneider
Hong Ton Yee
1944
William R. Harris
George H. Montgomery
Edwin E. Smith
Grover C. Strickler, Jr.
1946
Charles R. Hall
Haskell H. McGriff, Jr.
1947
William F. Andrews
Dallas D. Dupree, III
John M. Kolbas
John K. Petry
Donald G. Schroeter
Aloysius M. Sebian
Carl E. Trexler
Marion P. Wiant
1948
Jack Berger
Robert E. Evans
Paul A. Fritsche
David H. George
Max H. Humphrey
William J. Mead
Cloyd P. Reeg
Herman L. Sturza
Robert M. Tarr
1949
Paul E. Bates
Gordon C. Cross
Edward E. Galloway
Raymond D. Hammond
Thomas A. Haverfield
Theodore A. Rado
H.C. (Slip) Slider
Roland I. Spencer
Howard R. Steele
David F. Stewart
Edward V. Weiderhold
1950
Robert E. Duval
William W. Grimes
David W. Hardesty
Paul V. Miessler, Jr.
Richard L. Scott
Robert E. Thompson
1951
David C. Haring
Robert M. Killian
William L. Norris
Paul T. Santilli
Paul W. Spalte
David B. Speed
David A. Strange
Robert Wilson
1952
Robert F. Aldrich
James F. Froning
Carl R. Heil
Richard C. Satava
Richard E. Saylor
Charles J. Schmitz
David G. Stephan
George E. Zelters

1953
Willfred C. Ling
Manojkunwar D. Sanghvi
William L. Maag
James L. Wilson

1954
William H. Sprout

1955
Denzil H. Crowe, Jr.
James G. Ferguson
Wendell B. Hammond, Jr.
John H. Hoge
Thomas J. Tibbits

1956
Glenn F. Althouse
James R. Farst
Lloyd G. Jones

1957
Walter R. Andrews
Allen E. Jones
Paul J. Kienholz

1958
Edward H. Bollinger
Sheldon Chapman
John R. Kearns
Richard M. Smith
James W. Stark

1959
Lee W. Addie
Charles E. Drum

1960
Virgil L. Anderson
Carl E. Brooks, Jr.
George M. Hausworth
Lee R. Stewart

1961
Paul R. Bigley
Edward R. Corino
David A. Fichtner
Ronald L. Hollmer
Kenneth D. McDaniel
John N. Rapael

1962
Martin F. Cohan
Joseph M. Genco
Richard L. Hoffman

1962 (cont’d)
Richard W. Horchler
Charles D. Osbun
Frederick J. Rerko

1963
Lewis E. Gates
Myers G. Hammond
Robert P. Kasper
Fred A. Shaffstall

1964
Michael B. Cutlip

1965
Frederick J. Kerko
Michael C. Royer

1966
William F. Deerehake
William G. Lowrie
Glenn L. McKe
John H. Miller
Donald P. Whiteman

1967
John W. Bradshaw
Gerald A. Bulland
John S. Dorsey
Keith A. Dunnigan
Frank W. Hauschildt, Jr.
Wilma D. Jancok

1968
Lawrence H. Green
Richard T. Linak
Geoffrey A. Lindsay
David L. Lull
Arum V. Mandlekar
James W. Sebert
Douglas E. Smith

1969
John W. Toussaint

1970
George E. Cressman, Jr.

1971
Joseph J. Fair
Wayne R. Fontaine
Karen L. Hendricks
Michael S. Lerch
Stephen Zakanycz

1972
Jerome F. Geckman
James P. Russell

1973
David P. Turtle
John A. Douglas

1974
Kenneth R. Cox
Donald A. Lawson

1974 (cont’d)
Mark E. Forry
John E. Myers
Michael A. Patterson

1975
John T. Erikson
John R. Farison

1976
Richard D. Falter
Robert R. Holbrook
Daniel H. Millisor
John R. Stout

1977
Ann M. Dorlay
Dale C. Gyure
Thomas C. Houk
Mary E. Lenz Rose
Philip M. Rose

1978
Timothy L.R. Burns
James W. Hartings

1979
Martin K. Hitchcock
Dean J. Kerekes
Jeffrey C. Spangler
Ted K. Williams

1980
Frederick T. Clark
Paul D’Ambra
Carol T. Ehrman
Fred D. Ehrman
Pankaj P. Shan

1981
David Chang
Richard G. DeWitt
Kenneth A. Haley
Douglas V. Lenz

1982
Karen L. Christensen
Mike A. Greene
Annette L. Hissong
Charles S. Tritt

1983
Joseph F. Bishel
Thomas D. Burns
Jack R. Hughes, Jr.
Christina M. Karner

Friends of the Department
William D. Cue
Mary D. Fisher
Joyce L. Gates
Judith R. Hoffman
Clarence G. Lindstrom
Robert R. Klinge
Friends of the Department (cont'd)
Frances W. Kolbas
Charles F. Porter
Elva C. Rohrmann
Herman D. Storza
Patrick J. Tracy
Bobby L. Webb
Philip E. Wigen
John T. Wolf

INDUSTRIAL CONTRIBUTORS—print
Alcoa Foundation
Amoco Foundation
Ashland Oil Foundation
Atlantic-Richfield Foundation
Celanese
Dow Chemical
Dow Corning
Dowell

DuPont
Eastman Kodak
Exxon Education Foundation
General Motors Foundation
Lubrizol Foundation
Marathon
Monsanto
Owens Corning Fiberglas
Pfizer Foundation
Plaskolite
PPG Industries Foundation
Procter and Gamble
Rohm and Haas
Shell Companies Foundation
Sohio
Union Carbide
Union Oil Foundation
Weyerhaeuser Company

1933 - E. Slouder, H. S. Curtis
A. L. Fishback, K. L. Fligor,
L. K. Grove
Staff Members

Professors
R.S. Brodkey
E.R. Haering
H.C. Hershey
W. B. Kay (Emer.)
R.E. Lynn (Emer.)
W.D. Sheets (Emer.)
D.R. Skidmore
H.C. Slider (Emer.)
E.E. Smith
T.L. Sweeney
A. Syverson (Emer.)
J.L. Zakin (Chairman)

Assoc. Professors
L.S. Fan
K. Svanks (Emer.)

Asst. Professors
J. Davis
K.S. Knaebel
L.J. Lee
W.K. Lee

Visiting Professor
Raul Herrera

Visiting Asst. Professor
A. Matsuura

Post Doctoral Fellow
Koichi Fujie

Post Doctoral Research Assoc.
Sunil Satija

Visiting Research Scholar
T. Long

Administrative Associate
D.L. Starr, Sr.

Secretary
Virginia Midkiff

Technical Typists
Shirley Newsom
Pat Osborn

Design Engineer
M.B. Kukla

Lab Machinist
Robert H. Canegli

Teaching Associates
D. Ball
P. Bartel
C. Chung
S. Fink
T. Green
S. Jagannadh
K. Lakshmanan
Y.M. Lee
K. Ogunde
G. Shen
K. Tsuchiya
N.W. Wang

Administrative Assoc.
T. Burns
D. Chen
E. Grodecki
L.A. Raymond
R.A. Richard
B. Weinstein

Research Associates
M. Dalley
J.D. Fan
T.C. Hsu
S.J. Hwang
M. Munson-McGee
W.T. Tang
T. Whiteman

Presidential Fellow
D. Vutetakis

University Graduate Fellow
L. Witchey

CPGP Fellows
S.H. Lee
M. Mencl
J. Murphy

Fellowships
Amoco
D. Arters

Dow Chemical
R. Frye
B. Pierce

DuPont
L. Witchey
D. Vutetakis

Fellowships (cont.)
Exxon
T. Heeb
Arno C. Fieldner
M. Cruber
GEM
B.R. White
Koffolt
S. Schlasner
Owens Corning
T. Plegue
Plaskolite
R. Nelson
Procter & Gamble
S. Fink
T. Green
Rohm & Haas
K. Wisecarver
Shell
M. Baich
Sohio
K. Patterson
Union Carbide
J. Kayser
Scholarships
Ashland Chemical Fdn.
  D. Myers
  D. Zimmerman

Allan I Gordon
  J. DeFilippo

Raymond D. Hammond
  David Blischak
  Andrew Farell
  Cynthia Gerstle
  Ronald Hill
  Deborah Mehl
  Kathleen Murphy
  Daniel Pritts
  Sherry Roddy
  John Sage
  David Turner
  John Zeleznik

Lubrizol
  C. Hall
  M. Schmidt

Monsanto
  B. Jones
  R. Strait
  P. Vaneck
  M. Vetter
  J. Welsh

Texaco
  M. Vetter

William W. Whirl
  C. Finafrock
  K. Ruona

James A. Withrow
  A. Lekan
  J. McDowell
  J. Pressler
Faculty Activities

In addition to carrying out their normal teaching, research, student advising and university, college and departmental committee activities, the faculty have had a number of leadership roles, awards or other forms of recognition during the last year.

Prof. Bob Brodkey received the University Distinguished Research Award, the College of Engineering Research Award, and was the Alexander von Humboldt Foundation Visiting Senior (U.S.) Scientist at the Max-Planck-Institut für Strömungsforschung at Göttingen, West Germany last summer. He was on the Organizing Committee of the Eighth Biennial Turbulence Symposium at the University of Missouri-Rolla, and chaired a session at that meeting. He is Chairman of the Organizing Committee for the 1986 Fluid Mechanics Meeting of the American Physical Society to be held at OSU in 1986. Bob presented invited seminars at Iowa State University, Tri-State University and at the Max-Planck Institut. He is consulting for Ashland, Battelle and Arco Chemicals. In September, he received a grant to study improving the efficiency of cyclone flow systems, from the Dept. of Energy through Battelle.

Adjunct Prof. Fred Brothers recently became President of Ashland Chemical Company. and Vice President of Ashland Oil Company.

Prof. L. S. Fan received the University Distinguished Research Award, and the OSU Sigma Xi Research Award. He was a Research Fellow at the Morgantown Energy Technology Center last summer. L. S. serves on the AIChE Fluidization and Fluid-Particle Systems Committee, the AIChE Transport Science and Fundamentals Committee, and on the Dept. of Energy Pittsburgh Energy Technology Center proposal review panel on Coal Science and Technology. He was Co-Chairman of the Fluidization Session at the Washington, D.C. AIChE Meeting. During the past year Visiting Assistant Professor A. Matsuura of the Tokyo Institute of Technology, Postdoctoral Fellow Dr. Koichi Fujie of Tokyo Institute of Technology, Post doctoral Research Associate Dr. Sunil Satiya, and Visiting Scholars Mr. T. Long of the Institute of Architecture and Engineering, Chongching, Sichuan, China and Mr. T. Kawamura of Nippon Steel Company, Tokyo worked in his research group. He was invited to lecture at the Japanese Chemical Engineering Conference on Fluidization in Nagoya, Japan, at the Japanese Ministry of Industry, Trade and Interior in Tokyo (two seminars), at the University of Tokyo, at the Tokyo Institute of Technology, and at Battelle. He received grants for "Fundamental Analysis of High Pressure Fluidization," "Pressure Fluctuation in the High Pressure Fluidized Bed" and "Effect of Fine Particles on Coarse Particle Terminal Velocity in the Fluidized Bed Gasifier," all from the Dept. of Energy, "Hydrodynamics of Gas-Liquid-Solid Fluidization," from Amoco Oil Company and "Optimal Design of a Fluidized Bed Bioreactor for Treatment of Wastewater from Coal Processing" from the Dept. of the Interior. His earlier Petroleum Research Fund and National Science Foundation grants continue.

Professor Ed Haering had another very busy Unit Operations Lab last summer. The lab operated 6 days a week again with 82 students. Ed is consulting for Sherex and gave a short course on Heterogeneous Reactor Design to a group of their engineers. He is also serving as a technical consultant and expert witness in several cases.

Prof. Harry Hershey continues to serve as Faculty Advisor to the AIChE Student Chapter. Progress was made on the textbook on transport process that he and Prof. Brodkey are writing. Two more chapters were completed. Harry plans to take a professional leave next year during which time they expect to complete the book. He is a member of the Organizing Committee for the Fluid Mechanics Meeting of the American Physical Society to be held at OSU in 1986. He is consulting for Ashland Chemical.

Visiting Prof. Raul Herrera is on sabbatical from the Instituto Politecnico Nacional in Mexico City. He is doing research on sugar solubility and crystallization.
Emeritus Professor Web Kay is continuing his research in thermodynamics. He is beginning a new project in collaboration with Prof. Teja at Georgia Tech in which they plan to develop a new technique for measuring critical points of pure compounds and of mixtures using microwave heating. This will allow rapid heating and minimize decomposition of sensitive compounds.

Prof. Kent Knaebel is Chairman of the Central Ohio Section of AIChE. He also serves on the Adsorption and Ion Exchange Committee of AIChE and the Separations Committee of the Industrial and Engineering Chemistry Division of ACS. Kent gave invited seminars at the Institute for Petrochemistry and Industrial Organic Synthesis, Marseilles, France and at the School of Aerospace Medicine, Brooks Air Force Base, Texas.

Prof. Jim Lee has continued to develop the Polymer Processing Laboratory with the addition of a number of new instruments. He received an NSF Initiation Grant, an NSF Equipment Grant, an Amoco Foundation Young Faculty Development Grant, and funds from Plaskolite, General Motors and a partial fellowship from the Plastics Institute of America to support his program.

Prof. Won Kyoo Lee chaired a session at the American Control Conference in San Francisco in June, and lectured in a Continuing Education Course in "Computer-Aided Process Design" at the 3rd Pacific Chemical Engineering Congress (PACHEC '83) in Seoul, Korea in May. He also addressed a joint meeting of the Central Ohio Section of AIChE and the Instrument Society of America on modern control techniques.

Emeritus Prof. Emy Lynn spent the summer at his lake home in Ohio. He and his wife, Gen, are enjoying Florida.

Prof. Duane Skidmore continues to serve on the Ohio Hazardous Waste Facility Approval Board. He presented two talks on this work, one at Edison State College in Piqua, Ohio and one to the League of Women Voters in Cincinnati. He also gave seminars on coal comminution at Case-Western Reserve and at Ohio State.

Prof. Slip Slider retired in June and is now Emeritus Professor. He will continue to teach courses in petroleum reservoir engineering. Slip's latest book, Worldwide Practical Petroleum Reservoir Engineering Methods, was published by Penn Well Books in August. He is a member of the Society of Petroleum Engineers Gas Technology Committee, and chaired a session at the SPE National Meeting in San Francisco. Slip gave several short courses last year, two for Texaco in New Orleans and Houston, two open courses in Houston, and two in Lima, Peru for Occidental Petroleum.

Prof. Ed Smith is on the Editorial Board of the Journal of Fire Sciences, is a member of ASTM Committees A-5 (Fire Standards) and A-7 (Aerospace Industry Test Methods) and is Chairman of three task groups. He is also a member of the Advisory Committee on the Toxicity of Combustion Products of the National Fire Protection Association. Ed chaired a session of the International Conference on Fire Safety in San Francisco in June. He has received significant support for his fire research studies from Weyerhaeuser, American Iron and Steel Institute, Owens-Corning Fiberglas, B. F. Goodrich, Kaiser Engineers, and Amax Corporation.

Emeritus Prof. Karlis Svanks continues his work with Project CLEAR on Lake Erie.

Professor Tom Sweeney has been working full-time as Associate Vice President for Research. Despite his busy schedule in that office, he keeps in close touch with the Department.

Emeritus Prof. Al Syverson is active as a member of the Department's Advisory Committee. Al is still consulting for B. F. Goodrich.

Professor Jack Zakin was Co-Chairman of the Eighth Biennial Turbulence Symposium held at the University of Missouri-Rolla in September. He is on the Organizing Committee.
Publications and Presentations


Placement of Chemical Engineering Graduates

June 1983 - March 1984

June 1983

Doctor of Philosophy
No degrees granted

Master of Science
R.C. Chang, Taiwan
C.Y. Chen, Graduate School, OSU
H.E. Flinn*
F.T. Marriott, Texaco, Bellaire, TX
K.S. Wilson, Graduate School, Georgia Tech

Bachelor or Science
R.M. Andes*
J.K. Appoy, Trinidad
B.M. Bacskai*
M.B. Begland, Graduate School, LSU
J.H. Bishel, Inland Steel, East Chicago, IN
J.V. Blackwell, Graduate School, OSU
C.D. Bond, Med School, OSU
T.D. Burns, Graduate School, OSU
S.R. Cammarn, Proctor & Gamble, Cincinnati
D.S. Carter, Proctor & Gamble, Cincinnati
D.M. Chen, Graduate School, OSU
R.G. Cicciotti, Jr.*
J.H. Cordray, Grad. School, Univ. of Illinois
D.J. Davis*
C.B. Dotson, Arco, Alaska
L.S. Evans, Wayne Chemical
J.C. Ferguson, MBA, OSU
T.L. Flora, Graduate School, LSU
R.L. Frye, Graduate School, OSU
R.F. Gaus, Jr.*
A.M. Gesenhues*
D.B. Henninger, Colgate Palmolive, Louisville, KY
K.J. Herouvis, Graduate School, RPI
D.R. Hopper, Battelle, Columbus
R.A. Howdyshell*
J.R. Hughes, Jr., Goodyear, Atomic, Piketon, OH
L.A. Ice*
S.E. Jezior, Dow Chemical, Granville, OH
C.L. Kennedy, Grad. School, Carnegie Mellon
J. Konuch, Grace Seminary

J.A. Leonard*
E.L. Levine, Med School, OSU
R.P. Lewis*
T.M. Maloney, Grad. School, Cleveland State
M.R. Melick*
A.E. Meyers, NASA Lewis-Cleveland
J.A. Minderman*
M. Nelson, Plaskolite, Columbus
R.L. Newman, Thermo-O-Disc, Mansfield, OH
K.R. Nowak*
J.W. Patterson*
J.P. Paulos, family business, Columbus
L.T. Pham, Graduate School, OSU
L.A. Raymond, Graduate School, OSU
R.A. Richard, Graduate School, OSU
C.R. Richied, Graduate School
T.R. Robison, Graduate School, OSU, CIS
C.B. Rogerson, Cin. Millacron, Cincinnati
D.J. Sebold*
A.H. Smith*
G.D. Smith*
S.L. Spanoudis*
R.W. Tyree, Grad. School, Univ. of Arkansas
C.M. Warner, Dow Chemical, Granville, OH
J.A. Watson, Graduate School, OSU
B. Weinstein, Graduate School, OSU
D.L. White*
L.C. Witchey, Graduate School, OSU
R.E. Young*
R.E. Zimmerman, Med School, OSU

September 1983

Doctor of Philosophy
M.C.K. Hu, post-doctoral, Univ. of Ottawa

Master of Science
T.G. Heeb, Graduate School, OSU
W.S. Khouri, ARCO, Philadelphia

E.A. Mulvaney, Union Carbide, Oak Ridge, TN
G.C. Shen, Graduate School, OSU
K.D. Wisecarver, Graduate School, OSU
T. Yamashita, Lion Corp, Tokyo, Japan
September, 1983 (cont.)

Bachelor of Science
M.D. Dieringer*
S.M. Graf*
K.E. Heath, librarian in N.J.
P.A. Jarasek*
B. Khomami, Grad. School, Univ. of Ill.

J.F.S. Liu*
G.D. Penn*
N.R. Ricks, Jr.*
H.K. Silwani*
D.G. Vanek, Dow Chemical, Granville, OH

December 1983

Doctor of Philosophy
No degrees granted

Master of Science
S.D. Fink, Grad. School, OSU
D.J. Grigger*
Y.J. Huang, Grad. School, OSU
S.H. Lee, Grad. School, OSU
J.G. Murphy, Amoco, Naperville, IL
J.B. Young, Grad. School, Univ. of Illinois

Bachelor of Science
H.B. Ahmad, Petroleum National, Malaysia
R.H. Brandon, Dow Chemical, Granville, OH
L.S. Burroughs*
M.A. Dickerson*
C.J. Hanusz, Dow Chemical, Magnolia, Arkansas
S.S. Jindal*
C.M. Lin, Northeast Ohio Sewer Dist.
C. Norman*

M. Razmifshari*
T.A. Regrut*
E.L. Rohr*
A.A. Sanmartin, Grad. School, France
C.F. Stolarski, U.S. Navy
C.B. Wade, Goodyear Atomic, Piketon, OH
K.M. Weithman, Dow Chemical, Midland, MI
B.K. Wishon*

March, 1984

Doctor of Philosophy
S. Satija, Post-doctoral, OSU
K.T. Wu, Post-doctoral, OSU

Master of Science
S. Abrami*
S.V.S. Jagannadh, Grad. School OSU
H. Jordan, Battelle, Columbus
Y.M.L. Lee, Grad. School, OSU

Bachelor of Science
M. Burket*
D. Gray, Dow Chemical, Midland, MI
D. Wilburn, Graduate School

J.S. Liou
S.L. MacKinnon, Sandia, Albuquerque, NM
K. Patterson, Soho, Cleveland, OH

*No information available – if you know let us know!

BACHELOR OF SCIENCE
Median Salary $2223

MASTER OF SCIENCE

2575
2512, 2625, 2625

DOCTOR OF PHILOSOPHY
No Industrial Positions
CLASS OF 1983

ROW 1  C. Norman
ROW 2  B. Young, S. Spanoudis, D. Vanek, L. Witchey, L. Pham, B. Weinstein, D. Arters
ROW 4  P. Jarasek, E. Levine, M. Andes, M. Razmaifshari, D. Henninger, D. Chen, K. Heath, L. Raymond
ROW 5  T. Burns, K. Nowak, C. Kennedy, J. Blackwell, L. Evans
ROW 7  H. Hershey, R. Brandon, M. Melick, J. Appoy, S. Jindal, A. Smith, C. Hannusz, T. Yamashita, A. Matsuura
Benjamin G. Lamme Medal
Harold A. Sorgenti

Harold A. Sorgenti is Senior Vice President, Atlantic Richfield Company, and also President of ARCO Chemical company, an Atlantic Richfield division. He received the Bachelor of Chemical Engineering degree from City College of New York in 1956. He became a research engineer for Battelle Columbus Labs and attended Ohio State University, receiving the Master of Science degree in Chemical Engineering in 1959.

After graduating, he joined Atlantic Richfield as an engineer and worked in research and development. By 1975, he was named vice president of research and engineering for the Los Angeles products division of the firm, and in 1976 he returned to Philadelphia as vice president for chemical development for ARCO. In 1978, Mr. Sorgenti was promoted to senior vice president of the company, and the next year was named president of ARCO Chemical Company.

He holds ten U.S. and some 50 foreign patents, with several pending. He is credited with spearheading the development of the Duo-Test process to hydro-treat high-sulfur napthenic crudes to yield white oils of high purity, color, and clarity. He had a crucial hand also in ARCO's HDS process to desulfurize high-sulfur crudes. He directed the chemicals division into specialty fields, and they were the first supplier of the lead-free octane enhancer, methyl tertiary butyl ether.

Mr. Sorgenti is a member of the American Chemical Society, the American Institute of Chemical Engineers, and is on the Visiting Committee of Lehigh University's Chemical Engineering Department. He is a member of the Ohio State Alumni Association as well as that of CCNY.

Exceptionally active in civic affairs, he is a director of the American Heart Association, Chairman of the Philadelphia Chamber of Commerce, and past Chairman of Junior Achievement.
Distinguished Alumnus
Gordon G. Cross

Gordon G. Cross is Manager, Corporate Engineering, Developmental Engineering for the Standard Oil Company, Research Center, Cleveland. A Pennsylvania native, he served in the Navy during World War Two. He returned to school and, in 1949, received the Bachelor of Science degree in Chemical Engineering from Ohio State University. In 1966, he received the Master of Science degree in Engineering Administration from Case Institute of Technology.

After graduating in 1949, Mr. Cross worked as a process development engineer for Parke Davis. In 1955 he joined Sohio in the chemical department at Lima, Ohio, and helped supervise the development of Sohio's acrylonitrile, an award-winning and important process now widely licensed throughout the world.

In 1963, Mr. Cross transferred to the Research and Development Department as manager of Process Development, where he helped introduce several new catalysts and the products Structoform and Barex 210 resin.

In 1973 he was named Manager of Chemical and Polymer R&D and, in 1975, was promoted to manager of the entire group. In late 1981 he was named to his present position in developmental engineering, which includes conceptual, evaluative, and definition engineering as well as support for project management and marked by what Mr. Cross calls the three "i's" – improve, innovate, invent.

He is a registered professional engineer, a member and former chairman of the Cleveland Section of the American Institute of Chemical Engineering. He belongs also to the American Chemical Society. A member of the Cleveland Engineering Society, he was Vice President and then President of the Cleveland Association of Research Directors. He is a member of the Ohio State University Chemical Engineering Advisory Committee since its inception.
Distinguished Alumnus
Jon D. Helms

Jon D. Helms is Vice President for Planning, Sun Refining and Marketing Company, Philadelphia. He graduated from Ohio State in 1957 with both the Bachelor of Chemical Engineering and the Master of Science degrees. In 1968, from the University of Toledo, he received the Master of Business Administration degree in Industrial Management. In 1970, as a Sloan Fellow, he attended Massachusetts Institute of Technology and received the Master of Science degree in Management.

Mr. Helms joined Sun in 1957, after graduating from Ohio State, as Associate Chemical Engineer, Toledo refinery. By 1963 he was named Senior Chemical Engineer and in 1966 was promoted to Chief Chemical Engineer. In 1969 he was a member of the staff to manage the Sun and Sunray DX Oil merger.

In 1971 he went to Philadelphia as project leader, then in 1972 was named Manager of the Future Planning Section. He was promoted to Manager of Planning and Economics in 1974 and then Vice President of Market Planning and Development for Sunmark Industries.

He was promoted to Vice President of Finance and Planning in 1977, and in 1981 was made Vice President of Planning for Sun Refining and Marketing, with responsibility for planning and information systems activities for refining, marketing pipelines, terminals, marine transport, fuels, lubricating oils, chemicals, public relations and also government relations.

He has written several technical papers and is a director of Riddle Memorial Hospital and Finance Committee Chairman. He is a lay leader and trustee of his Methodist Church. Mr. Helms is a member of the Ohio State Alumni Association. He belongs also to the American Institute of Chemical Engineers, Sigma Xi, and the engineering honorary, Tau Beta Pi.
Texnikoi Award
Kerry G. Hertenstein

Kerry G. Hertenstein is the Production Manager for Pfizer, Incorporated, at the company's Terre Haute, Indiana, location. He attended Ohio State University and in 1971 received the Bachelor of Chemical Engineering degree, awarded cum laude, and at the same time the Master of Science degree, also in Chemical Engineering.

After graduating, Mr. Hertenstein joined Pfizer as Production Supervisor for a variety of processes including antibiotic fermentation and organic synthesis. In 1976, he moved to the firm's Chemical Division headquarters in New York and was Production Service Manager and served as liaison between production departments at several plants and customers.

In 1979, Mr. Hertenstein was reassigned to the Brooklyn plant, where he was Assistant Manager of the Organic Department, a large division of the company which produces a variety of fine chemical and bulk pharmaceutical products. He was named Manager of the Recovery Department in 1980 and was in charge of the recovery and purification of different kinds of antibiotics.

Early in 1982 he was promoted to his present position as Production Manager where he is responsible for the overall management of three antibiotic and fine chemical production departments. Mr. Hertenstein is a member of the American Institute of Chemical Engineers and past Chairman of a local section of this group. He also is a member of the choir at his Memorial United Methodist Church.

As a concerned professional, he chaired in 1981 the Pfizer plant United Way Campaign effort. He also is on the Wabash Valley United Way Allocations Board and is ice resident of the Lincolnshire Homeowners Association. Continuing his history of active participation in his community, he also is an officer in the Lost Creek Parent-Teacher Organization.
<table>
<thead>
<tr>
<th>Year</th>
<th>Names</th>
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<tbody>
<tr>
<td>1914</td>
<td>R. H. Cragg</td>
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<td>1919</td>
<td>J. T. Robson</td>
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<td>1954 (cont)</td>
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<td>D. Weir</td>
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<td>R. B. Weiser</td>
<td>S. W. Chun</td>
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<td>A. Constantinides</td>
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<td>G. L. Croskey</td>
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<td>1959</td>
<td>R. S. Cunningham</td>
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<td>L. W. Addie</td>
<td>M. B. Cutlip</td>
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<td>J. O. Albery</td>
<td>M. F. Dague</td>
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<td>T. M. Bates</td>
<td>R. G. Dunn</td>
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<td>C. B. Bautista</td>
<td>W. R. Ferris</td>
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<td>S. G. Bloom</td>
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<td>E. M. Bond</td>
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<td>S. W. Chun</td>
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<td>R. E. Davis</td>
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<td>C. E. Drum</td>
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<td>W. O. Glomb</td>
<td>J. C. Leslie</td>
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<td>W. S. Palmer</td>
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<td>E. R. Purves</td>
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<td>W. B. Van Sise</td>
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<td>D. J. von Lehmden</td>
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<td>J. H. Weinberg</td>
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<td>G. A. Wilcox</td>
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<td>J. F. Kuon</td>
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<td>R. D. Litt</td>
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<td>S. E. Matthews</td>
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<td>R. W. McCrackin</td>
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1964

| A. R. Axline         |                                |                                |                                |
| J. R. Barber         |                                |                                |                                |
| G. L. Beeler         |                                |                                |                                |
| R. Betschel          |                                |                                |                                |
| W. O. Betz           |                                |                                |                                |
| S. G. Bloom          |                                |                                |                                |
## Anniversary Classes (cont.)

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<tr>
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<td>T. H. Owens, R. S. Schuster, B. J. Steinmetz, B. J. Wilson</td>
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<td>R. S. Fazes, C. W. Sherban, K. R. Tuuri, K. D. Wisecarver</td>
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<td>G. S. Phillips, K. A. Skrada, R. A. Villarroel, T. E. Wood</td>
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<td>S. D. Reynolds, D. K. Snowden, D. J. Wasela, J. E. Zilka</td>
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<tr>
<td></td>
<td>I. J. Schultz, J. C. Spangler, T. K. Williams, K. A. Zimmerman</td>
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</tbody>
</table>

### Photographs

1938 - R. W. Conaway, R. S. Radow, J. C. Cole

Asst. Prof. Knaebel presenting COS-AIChe Senior Award to Lenore Witchey Junior Award to Alan Lekan

Cheryl Kennedy receiving the American Chemists Award from Professor Bob Brodkey

Scott Herrmann receiving the AIChe National Sophomore Award from Professor Hershey