Dear Alumni and Friends of the Department

Another productive year for the Department has gone by and despite the persistent snows of January and February, morale is high.

One change with which we are very pleased is the arrival of Dr. Umit Ozkan on our faculty. Umit joined us on January 1, 1985 after completing her PhD at Iowa State University. Her PhD research was a study of "Selective Oxidation of C_6-hydrocarbons to Maleic Anhydride by Molybdate Catalysts" with Dr. Glenn Schrader as advisor. Her research on heterogeneous catalysis and surface characterization will fill an important gap in our research program. She received her M.S. in Chemical Engineering from the Middle East Technical University in Ankara, Turkey in 1980 after receiving her B.S. from the same school in 1978.

We are seeking two more faculty members and are in the midst of correspondence, telephone calls, invitations to campus, and campus interviews. This is a very time consuming process for the faculty and the Search Committee, in particular, but a necessary one to maintain the high quality of our staff.

The job market for our M.S. and Ph.D graduates continues to be satisfactory. Unfortunately, we still can not say this for the B.S. graduates for whom the market is at best fair, perhaps a little better than last June. The difficulties that some of our B.S. students have had in finding suitable professional positions in the past couple of years, along with our enrollment management program (2.3 grade point to take the first stoichiometry course) have reduced enrollment and the sophomore class is smaller than last year. It has about 75 students which we think is about the right size.

The faculty continues heavy involvement in research, teaching and service (see listings under Faculty Activities and Publications and Presentations). Of special note are two College of Engineering awards won last year. Prof. Harry Hershey received the second Stanley E. Harrison Faculty Award, and Prof. Jim Davis received the Charles E. MacQuigg Award for Outstanding Teaching. In addition, Mike Kukla, our Design Engineer, was one of eight non-academic employees of Ohio State who received an Outstanding Staff Award, a new award recognizing the outstanding OSU employees.

Alumni support of the Department during the past year was most gratifying. In 1984 more than $55,000 was received in alumni donations and matching funds designated for chemical engineering. It would be impossible for us to provide the level of quality in our teaching and research programs that our students deserve without alumni contributions and industrial support. The faculty and I would like to encourage even greater alumni participation, and urge those of you who are already donors to Ohio State to designate the Department of Chemical Engineering for your contributions. The 1984 contributors to the Department are listed in this report.

Industrial support to the Department, exclusive of alumni matching gifts, totaled $385,000 in 1984. We are also seeking various items of equipment and the faculty has prepared a list of needed items. If you know of any surplus equipment available in your companies which might be useful to us, or if you wish a copy of our list, please let me know.

I should say a few words about our undergraduate curriculum. We are constantly reevaluating it and would welcome any comments from alumni about the importance (or unimportance) in their experience of courses taken. We made some small changes this year. Effective next autumn, the scheduling of our first process control course will be changed from the junior year to the senior year. This permits students to take the two required process control courses back to back. (Incidentally, we are among a small group of departments which require two process control courses.) We have
also shifted one credit of our (spring) senior design course to the (autumn) senior chemical engineering economics course. This will balance the senior design sequence a little better. The (winter) process development course remains unchanged.

We are also again looking at the possibilities of instituting a coop program. We have been stymied in the past because all course offerings in organic and physical chemistry are given only once each year. Thus, any student leaving for a quarter cannot go on in chemistry until the next year.

The replacement building for the Sawtooth is moving along. The brick shell is virtually complete, and the large crane which towered over this part of campus until mid-January has departed.

We hope to see many of you on ACE Day, May 17.

Sincerely,

Jack Zakin

P.S. There will be a Special Symposium honoring Emeritus Professor Web Kay's contributions in thermodynamics research at the Annual AIChE Meeting in Chicago, November 10-14, 1985. The Department will be sponsoring a reception for alumni and friends, probably on Tuesday, November 12. So, if you can, please stop by to renew acquaintances and to meet our new faculty. After our enjoyable alumni social event at the AIChE San Francisco meeting in November, we plan to do this each year. A notice with details will be sent to you in October.
1984 Contributors
TO THE DEPARTMENT OF CHEMICAL ENGINEERING

1917
WALLACE KENNEDY

1918
WILLIARD F TRESSEL

1921
GEORGE J WRASMAN

1922
DR ROBERT F HEALD

1923
GLORIA S FISCHER

1925
ROBERT O KOLTZ
JOHN C PEEW

1926
CHESTER G LANDES

1927
JAMES L COLLINS

1928
ARNOLD H NIEMAN

1929
ELWOOD B LAYFIELD

1930
PARKER S DUNN
CHARLES L FLETCHER

1931
LE FEVER M LEE

1933
GEORGE E FROMM

1934
WALTER A BARRES
CLARENCE N FISHER
THEODORE MARKS
LEWIS E MICHAEL
EDWARD E SLOWTER

1935
NORBERT K KOEBEL
FREDERICK L THOMAS

1936
RICHARD A MILLER
JOSEPH C MRAVEC
WILLIAM A TAYLOR
WILLIAM P WARD

1937
ANDREW E CHUTE
DR HARVEY H GRICE
ROBERT T WHITAKER

1938
NORMAN C CAMMERER
EDWARD J HAVEN
ROBERT S RADOV

1939
GORDON W GOLDRICK
WILLIAM D WOODFORD

1940
CHARLES H BOARDMAN
ROBERT W HOOPER
DON E KENNEDY
EVERETT H STROBEL
FRANCIS J VAN DER WERF
ROGER M WARNER
WALTER C WENDSCHUH

1941
LELAND W BLAZEY
ROBERT L WALDVOGEL

1942
DR DONALD S ARNOLD
RANDAL E BAILEY
DR FORREST R HURLEY
MAURICE M LOWMAN

1943
LOUIS C BEALE
CARL F EFFLER
GLENN L GIFFORD
RICHARD L MCMILLEN
DR MYRL E MILLER
ROY E SCHNEIDER

1944
WALLACE L BOSTWICK
WILLIAM R HARRIS
GEORGE H MONTGOMERY
DR EDWIN E SMITH

1946
WILLIAM FOWLER
CHARLES R HALL
HAROLD J OGLEVEE

1947
WILLIAM K FELL
HARRY M IWATA
DR JOHN B MARTIN
ALOYSIUS M SEBIAN

1948
RICHARD A ARNOLD
JACK BERGER
DR RICHARD E DURST
WILLIAM A KLINK JR
ROBERT E KRAUS
JOHN C STEWART

1949
WILLIAM D ARTHUR
PAUL E BATES
GORDON G CROSS
RAYMOND D HAMMOND
THOMAS A HAVERFIELD
MAURICE R HETLER
THEODORE M JENNEY
MORTON POLLOCK
CHARLES R SHEPHERD
JOHN W THOMPSON

1950
DAVID W HARDESTY
PAUL W MEISSLER JR
DR THOMAS D NEVENS
JEWEL H PERKINS
ROBERT E THOMPSON

1951
CHARLES E BREITHAUP
RICHARD N. EILERMAN
DAVID C HARING
JAMES H HOORMAN
WILLIAM L NORRIS
DONN P RICE
DAVID B SPEED
DR DAVID A STRANG
DR ROBERT B WEISER

1952
DONALD E HAUPT
RICHARD E SAYLOR
CHARLES J SCHMIDT
DR DAVID G STEPHAN

1953
JOHN V BISHOP
WILLIAM L MAAG
JAMES L WILSON

1954
JAMES A YERINA

1955
HOWARD L FOLTZ
WENDELL B HAMMOND JR
JOHN H HOGE
1984 Contributors (cont.)

1969
JAMES L BRAUN
ROHIN KHERA
DR M ANANDHA RAO

1970
GEORGE E CRESSMAN JR
DAVID R GROVE
JOHN D RENSEL
DR HARRY YIEH

1971
DR WAYNE R FONTAINE
DR ERIC A GRULKE
KAREN L HENDRICKS
KERRY G HERSTEIN
CARL R LIEBERMAN
DR STEPHEN ZAKANYCH

1972
WILLIAM E JOHNSON

1973
JOHN C GROVES
ARTHUR N MAUPIN
JOHN A OSTERHAGE

1974
DR LESLIE S FISHLER
DAN W HESTER
JOHN E MYERS
GEORGE L OTT
GARY TATTERSON

1976
DANIEL H MILLISOR
LAWRENCE M VLCEK

1977
JACK D ALVIS
BRIAN R LEVERS
DAVID H WELLS

1978
JANET L INKROTT
MICHAEL P MOORE
DR JOE W SAYRE
RAD V SCOTT
THOMAS E WINKLER

1979
JOHN F KREINBRINK
GARY S PHILLIPS
JEFFREY C SPANGLER

1980
FREDERICK T CLARK
PHILIP A DALTON
ARLENE S FREYMAN
MATTHEW J GALOSI
GARY R PROK
PANKAJ P SHAH
JIM Y TOU
DAVID G VUTETAKIS

1981
DOUGLAS V LENZ
ANTHONY R SUEVER
JAMES R VANGELOFF
AMY L VANGELOFF
RENEATE I WARREN

1982
DAVID B BOYLE
DOUGLAS J BRYAN
JEFFREY A HANWOOD
JOYCE A WAGNER

1983
JOSEPH F BISHEL
RICHARD H BRANDON
MARK D DIERINGER
LINDA S EVANS
ANNE E MEYERS
ALAN H SMITH
CHRISTOPHER P STOLARSKI
DAVID L WHITE

FRIENDS OF THE DEPARTMENT
ROBERT V BARNES
PETE R BRANDT
R.B. CALHOUN
G.E. CAMPBELL
JUDITH G CRESSMAN
C BRUCE DONALDSON
MAYDE M DUNN
JOHN G FENIC
UARDA S FISCHER
GLORIA FISCHER
RICHARD H HOCHMAN
BARBARA KIME
DONALD L KIME
ROBERT R KLINGE
LOUIS R LEENNE
BRUCE MAPLES
DAVID F MUELLER
LEONARD PERETZ
ROBERT M POOL
CHARLES F PORTER
CHERYL SPANGLER
PATRICK J TRACY
HELEN P WAITE
CAROL M WRIGHT
Industrial Contributors

ALCOA FOUNDATION
AMOCO FOUNDATION
ARCO FOUNDATION
ASHLAND FOUNDATION
CAMPBELL INDUSTRY SALES
CELANESE CORPORATION
CHEMICAL RESEARCH COUNCIL
CHEM-QUIP
CHEMTEC
CHEMWEST
COMAIR
CPI EQUIPMENT CORPORATION
DOW EQUIPMENT COMPANY FOUNDATION
DOW CORNING
DU PONT
ENGINEERED SYSTEMS & PRODUCTS
EXXON CORPORATION
GENERAL MOTORS CORPORATION
ERNEST & VICTOR HASSELBLAD FOUNDATION
JAMES INDUSTRIAL EQUIPMENT CO.
KAHL
LUBRIZOL
MARATHON
MILLS-WINFIELD ENGINEERING SALES
MONSANTO
R.A. MUELLER, INC.
OWENS CORNING FIBERGLAS
PPG INDUSTRIES FOUNDATION
PLASKOLITE
PLASTIC INSTITUTE OF AMERICA
PROCTOR & GAMBLE FOUNDATION
ROHM & HAAS COMPANY
SHELL OIL
SMITH & SCHNACHE
SOHIO
TECHNICAL SERVICE CORPORATION
TEXACO
UNION CARBIDE
WEYERHAEUSER

1934 – C.N. Fisher, T. Marks,
O.D. Graff, E.E. Slowter,
L.E. Michael & E.J. Corell
## Staff Members

### Professors
- R.S. Brodkey
- C.J. Geankoplis (Emer.)
- 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
- U.S. Ozkan

### Visiting Professor
- R. Herrera
- R.F. Hajjar

### Post Doctoral Fellow
- K. Fujie

### Post Doctoral Research Assoc.
- K. Kitano

### Visiting Research Scholar
- T. Long

### Administrative Associate
- J.F. Teeple

### Secretaries
- V. Midkiff*
- S. Newsom
- P. Osborn

### Design Engineer
- M.B. Kukla

### Lab Machinist
- R.H. Canegali

### Teaching Associates
- D. Ball
- H. Chang
- S. Chiu
- P. Chung
- C. Fang (Chem)
- J. Giordano
- S. Jagannadh
- G. Johnson
- S. Khabiri
- K. Lakshmanan
- J. Lents
- T. Ramesh (Eng.Graphics)
- K. Yam
- Y. Yang

### Administrative Assoc.
- T. Burns
- A. Ebrat
- J. McDowell
- R.A. Richard
- B. Weinstein

### Research Associates
- L. Economikos
- T.C. Hsu
- S.J. Hwang
- R. Jean
- Y.M. Lee
- M. Munson-McGee
- G.C. Shen
- G.H. Song
- W.T. Tang
- K. Tsuchiya
- B. Zehner

### M'RI Trainees
- M. Baich
- C.Y. Chen

### GPOP Fellows
- S.H. Lee
- M. Mencel
- P. Wiley

### Fellowships
- Amoco
  - D. Arters
  - S. Schlasner
- Dow Chemical
  - K. Wisecarver
- DuPont
  - D. Vutetakis (also Presidential)
- Exxon
  - T. Heeb

### Fellowships (cont.)
- Arno C. Fieldner
  - L. Pham
- Gem
  - B.R. White
- General Motors
  - J.D. Fan
  - Y.J. Huang
- Huntsman
  - K.J. Wang
- Koffolt
  - C. Cawthon
  - S.K. Shum
- Owens Corning
  - T.J. Green
  - T. Plegue
- Pfizer
  - B. Pierce
- Plaskolite
  - J. Marinelli
  - B. Yang
- Peoples Republic China Government
  - J. Qi
- Procter & Gamble
  - M. Matz
  - H. Mobley
- Roberts
  - S. Cha
  - C. Jung
  - D. Moonay
  - R. Yurick
- Rohm & Haas
  - C. Shoemaker
- Shell
  - B. Kreisher
- Sohio
  - P. Bartell
- Union Carbide
  - R. Frye
  - J. Kayser

*Editor of Annual Report
Scholarships
Ashland Chemical Fdn.
   A. Farell
   C. Hall

Dow Chemical
   S. Sung

Allan I. Gordon
   R. Strait
   P. Vanek

Raymond D. Hammond
   S. Barnicki
   L. Davidson
   C. Drobnik
   M. Drobnik
   P. Erdy
   C. Finafrock
   M. Patacca
   R.W. Shields
   J.H. Mentrak

John H. Hoge
   K. Murphy
   M. LaVoie
   R. Wagner

Lubrizol
   D. Myers
   D. Zimmerman

Monsanto
   R. Hill
   B. Molloy
   R.J. Nolan

Texaco
   B. Molloy
   R. Nolan

William W. Whirl
   D. Blischak
   R. Martin
   D. Pritts

James A. Withrow
   B. Noe
   M. Vetter
   J. Welsh

1944 - C.A. Haverly, Jr.
   E. E. Smith

1949 - J.B. Martin & G.G. Cross
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 continued fluid mechanics activities. He presented a 4-day workshop on fluid mechanics to Mexican chemical engineers at Celaya, Mexico, June 18-22, 1984. Bob was also a member of the Organizing Committee and chaired a session at the Ninth Turbulence Symposium in Rolla, Mo. in October, is organizing the Fluid Mechanics Meeting of the American Physical Society to be held at Ohio State in 1986, and is a member of the newly formed AICHE Fluid Mechanics Programming Committee and will be organizing several sessions for future AICHE Meetings. He also served as an observer on the AICHE-ABET Accreditation Team that visited Georgia Tech in October. Last year he received equipment grants for image analysis equipment from Arco Foundation and from Erna & Victor Haselblad Foundation.

Prof. Jim Davis took over as Faculty Advisor of the Student Chapter of AICHE this year in place of Prof. Hershey who is on professional leave. Jim won a MacQuigg Teaching Award for Outstanding Teaching. The three awardees from the College of Engineering are selected by the students. He received a University Seed Grant for research on artificial intelligence. He taught heat transfer in the OSU refresher course for the Professional Engineers Examination.

Prof. L. S. Fan has an active fluidization research group. During the past year Prof. A. Matsuura and Dr. K. Fujie of the Tokyo Institute of Technology, Mr. T. Long of the Institute of Architecture and Engineering, Congquig, Sickman, Peoples Republic of China, and Dr. K. Kitano of the Government Industrial Development Laboratory in Hokkaido, Japan worked in the group. Research support was from Amoco Oil Foundation (Hydrodynamics of Gas-Liquid-Solid Fluidization), U.S. Dept. of Energy (Pressure Fluctuation in the High Pressure Fluidized Bed, Effect of Fine Particles on Coarse Particles Terminal Velocity in the Fluidized Bed Gasifier and also Fundamental Analysis of High Pressure Fluidization), Office of Water Policy, U.S. Dept. of Interior (Optimal Design of a Fluidized Bed Bioreactor for Treatment of Waste Water from Coal Processing), Petroleum Research Fund (Fundamental Characteristics of the Gas-Liquid-Solid Fluidization Bed Reactor for Hydrocarbon Processing), National Science Foundation (Study of a Gas-Liquid-Solid Fluidized Bed Containing a Binary Mixture of Particles). L.S. taught Engineering Economics in the OSU refresher course for the Professional Engineers Examination. He is a member of the AICHE National Program Committee, Area 2G-Fluidization and Fluid-Particles Systems and chaired sessions at the AICHE Meetings in Anaheim and San Francisco last year. He also served as a Dept. of Energy Review Panel Member on proposals for Support of Advanced Coal Research at U.S. Colleges and Universities and consulted for Amoco Oil Co. and Battelle.

Prof. Christie Geankoplis was appointed Emeritus Professor. Christie is teaching about 2/3 time at the University of Minnesota reorganizing their unit operations laboratory and directing it and teaching a senior/graduate course in mass transfer. He is also preparing publications based on the work of his OSU students and has three in press. He continues to consult one day a week.

Prof. Ed Haering had another successful summer with the unit ops lab. Both the milder weather and the smaller number of students (only 5 days a week) helped. Ed served as a technical consultant and an expert witness in several lawsuits and is consulting for several industrial companies.

Prof. Harry Hershey was the second recipient of the Stanley E. Harrison Faculty Award for Excellence in Engineering Education. Harry is on professional leave this year and he and Bob Brodkey are completing their text on Transport. He taught fluid mechanics and thermodynamics in the OSU refresher course for the Professional Engineers Examination.

Visiting Prof. Raul Herrera stayed on for a second year. He has taught ChE 200 (mass balances) and ChE 420 (transport) and kinetics in the OSU refresher course for the Professional Engineers Examination.
Prof. Kent Knaebel has just completed his term as Chairman of the Central Ohio Section of AIChE. Kent was a Visiting Research Fellow at the School of Aerospace Medicine at Brooks Air Force Base in San Antonio last summer. He is on the Adsorption and Ion Exchange Committee of AIChE and the Separations Subdivision of the Industrial and Engineering Chemistry Division of ACS. He received a Seed Grant Award from OSU for research on pressure swing adsorption and an equipment grant from the National Science Foundation for a mass spectrometer. He taught mass transfer and design in the OSU refresher course for the Professional Engineers Examination.

Emeritus Prof. Web Kay continues to work with graduate students. Web is also collaborating with Prof. Teja of Georgia Tech to develop an improved technique for measuring thermodynamic properties near the critical point.

Prof. Jim Lee has a large graduate student research group studying polymer processing. Jim is receiving support for his research from Amoco Foundation, Plaskolite, General Motors, Huntsman Chemical & National Science Foundation.(Huntsman's R&D lab now is part of the OSU industrial park.) He was invited to attend the September 1984 meeting of the INTERNATIONAL POLYMER PROCESSING GROUP in Strasbourg, France to discuss his research work.

Emeritus Prof. Emy Lynn stopped in Columbus last summer. He and his wife are enjoying Florida winters and summers in Ohio.

Prof. Won Kyoo Lee worked at the Rohm and Haas Bristol Research Laboratory last summer and served as a consultant on process control development and applications. He received an OSU Seed Grant for research on process control.

Prof. Umit Ozkan arrived in Columbus in late December and is teaching heat transfer and getting her research program started.

Prof. Duane Skidmore is continuing his coal research particularly the desulfurization of coal by microbial action. Duane was a member of the Ohio Hazardous Waste Facility Approval Board until May 1984.

Emeritus Prof. Slip Slider will be teaching two courses in petroleum engineering again during Spring Quarter. Slip served on the Society of Petroleum Engineers Gas Technology Committee (set up program for annual national meeting) on the Research Committee of the Interstate Oil Compact Commission, and on a Peer Review Panel for the U.S. Dept. of Energy on Eastern Gas Shales Research. He conducted eight 5-day reservoir engineering workshops for Texaco, Sun Oil and Union Texas Petroleum. He also consulted for the Trinidad and Tobago government oil company, TRINMAR, in Trinidad. In October he received the Society of Petroleum Engineers Regional Service Award in the Eastern Region at their meeting in Charleston, W.Va.

Prof. Ed Smith is continuing his activity in fire research. He is a member of the Committee on the Toxicity of the Products of Combustion of the National Fire Protection Association, the Advisory Committee of the Annual Conference on Fire Safety and the Editorial Advisory Board of the Journal of Fire Sciences. In addition, he serves on ASTM Committee E 05 as Chairman of the Task Group on Release Rate Tests (E 05.21.30), Chairman of the Task Group on Combustibility (E 05.23.02) and a member of the Planning and Review Subcommittee (E 05.91). Ed's research is supported by Weyerhauser & American Iron and Steel Institute.

Emeritus Prof. Al Syverson continues to enjoy retirement. He serves on the Department Advisory Committee.

Emeritus Prof. Karlis Svanks is still active on water research on Lake Erie.

Prof. Tom Sweeney continues to serve as Associate Vice President for Research and Graduate Studies. He was appointed to the Ohio Hazardous Waste Facility Approval Board in May.
Faculty Activities (cont.)

Prof. Jack Zakin is continuing his collaborative research with Dr. D. Fruman of Ecole Nationale Superieure de Techniques Avancees near Paris on transport of viscous crudes as concentrated oil-in-water emulsions. This cooperative effort has been supported by the National Science Foundation. Another award from NATO, which also involves two French oil companies and ENSTA, is for practical studies of this technique. In December he consulted on a problem for the Alyeska Pipeline. He was Co-Chairman of the Ninth Turbulence Symposium, served on the Scientific (Organizing) Committee of Drag Reduction 84 (International Association for Hydraulic Research) Symposium held at the University of Bristol, July 2-4 and chaired a session. He also chaired a session at the IUTAM Symposium on the Influence of Polymer Additives on Velocity and Temperature Fields at the University of Essen, in late June. Last fall he served on an AIChE-ABET Accreditation Visiting Team and also on the Fluid Mechanics Review Panel for the National Science Foundation to evaluate Engineering Research Center proposals. He is Chairman of the Council for Chemical Research Scientific Manpower and Resources Committee. In 1984, he was elected a Fellow of the AIChE and became a Registered Professional Engineer in the State of Ohio.

Publications and Presentations


Placement of Chemical Engineering Graduates

June 1984 - December 1984

Doctor of Philosophy
No degrees granted

Master of Science
M.A. Baich, Graduate School, OSU
T.J. Green, Graduate School, OSU
T.C. Hsu, Graduate School, OSU
D. Johnson,
R.H. Kelch, Dow Chemical, Granville, OH
R.W. Nelson, Bendix, Kansas City, MO
C. Shols
B. Yang, Graduate School, OSU

Bachelor of Science
Y.G. Aouad, Graduate School, OSU
E.I. Beraha
J.L. Burman
J.C. Burmeister, Western Co.of N.A., Cambridge, OH
P.T. Canavan, North American Phillips, Ottawa, OH
C.M. Champagne, GM Inland Div., Dayton, OH
S.M. Clements, Dow Corning, Midland, MI
R.P. Coffman
K.J. Danter, Graduate School, MBA, OSU
R. DeYoung
C.R. Doman
S.R. Ellis, Graduate School, OSU
T.M. Forrester
W.J. Giddings, Duriron, Dayton, OH
K.A. Hanna, Battelle, Columbus, OH
W.E. Harkins, Mobay Chemical, Morgantown, WVA
S.J. Herrmann, DuPont, Circleville, OH
J.S. Hoene, Darcom, Texarkana, TX
H.L. Hom, Case Western Reserve Law School
C.S. Jones, Guild Assoc., Worthington, OH
S. Khabiri, Graduate School, OSU
R.G. Larsen
S.R. Leash, American Elec. Power, Columbus, OH
A.J. Lekan, DuPont, Wilmington, DE
B.N. Lombardi, PPG, Delaware, OH
A.L. Luck, Colgate Palmolive, Jeffersonville, IN
J.M. Marek, Medical School, Univ. of Cincinnati
G.M. Masica, General Electric, Worthington, OH
J.K. McDowell, Graduate School, OSU
T.M. McGinnis, PPG, Circleville, OH
L.R. Miculka
C.A. Myers
R.A. Penicka
D.J. Penrod
J.W. Pressler, Caterpillar, Peoria, IL
P.A. Renner, Medical Sch., U. of Cinn.
P.T. Rigano, Darcom, Texarkana, TX
M.R. Sadeghi, Graduate School, OSU
S.D. Salsbury,
M.T. Savage, Procter & Gamble, Cinn.
T.A. Scopel
R.J. Seballos
G.J. Skufca, Dow Corning, Midland, MI
T.W. Smith
K.A. Stefanik
M.W. Stevens
S.O. Stiving, Graduate School, OSU
E.A. Swank
R.L. Swindler
D.M. Waits, IBM
G.R. Walters
V.D. Welch, DuPont, Camden, SC
D.K. Wetzel
D.P. Whiting
L.A. Williams
J.D. Zelzeznik, B.F. Goodrich, Akron, OH

August 1984

Doctor of Philosophy
No degrees granted

Master of Science
G.W. Miller, USAF School of Aerospace Medicine
S.R. Northrup, Owens Corning, Granville, OH
T.A. Whiteman, National Steel Corp., Weirton, WV
L.C. Witchey, Graduate School, NC State
P.D. Woosley, Reliance Electric, Cleveland, OH
Placement (cont.)

August, 1984 (cont.)

Bachelor of Science
A.W. Armstrong
D.M. Blischak, National Steel, Weirton, WV
B.F. Jirjis
D.V. Joyce
P.R. Katterle
J.G. Zambory, Dow Corning, Midland, MI

December 1984

Doctor of Philosophy
No degrees granted

Master of Science
D.C. Arters, Graduate School, OSU
M.O. Dailey, Westrec Inc., Fulton, NY
M.J. Gruber
L.A. Raymond, Battelle, Columbus, OH

Bachelor of Science
S.J. Baker
M.S. Bitto
T.L. Datz, Dow Corning, Midland, MI
A.M. Disante
S.P. Hayden
D.R. Hertzer
J.L. Herzog
K.M. Hogan
W.E. Hounshell
C.J. Olszko, Navy ROTC
M.E. Schott, Graduate School, OSU
A.T. Siitam
P.B. Super
M.J. Wadzinski

March, 1985

Doctor of Philosophy
K. Ogunde, DuPont, Wilmington, DE

Master of Science
P. Bartell, Graduate School, OSU
L. Economikos, Graduate School, OSU
R. Frye, Quaker Oats, Barrington, IL
J. Kayser, Graduate School, OSU

Bachelor of Science
H. Kim, Graduate School, OSU
D. Nolen

Bachelor of Science
Median Salary $26,169

Master of Science
Median Salary $29,533
Class of 1984

ROW 1  D. Hertzer, M. Marcelo, C. Champaign, M. Wadzinski

ROW 2  H. Kim, L. Williams, K. Jones, B. Jirjis, E. Swank, T. Datz, R. Seballos

ROW 3  W. Harkins, A. Luck, J. Danter, R. DeYoung, M. Savage, R. Sadeghi
        S. Stiving, R. Larsen, J. McDowell, C. Butrey

ROW 4  B. Hounshell, P. Renner, J. Herzog, K. Hannahs, J. Macarus, V. Welch,
        B. Lombardi, J. Zambory, R. Swindler, J. Burman, J. Hoene, D. Waits,
        D. Wetzel, T. Theaker, L. Miculka

ROW 5  K. Hogan, G. Masica, C. Skufco, J. Zeleznik, T. McGinnis, D. Blischak,
        J. Burneister, T. Smith, C. Doman, C. Olszko

ROW 6  E. Beraha, M. Stevens, S. Clements, D. Starr, S. Ellis, R. Penicka,
        P. Canavan, M. Bitto, W. Giddings, P. Rigano, T. Forrester, A. Armstrong,
        S. Herrman, S. Baker, T. Scopel, P. Katterle, J. Pressler

ROW 7  M. Schott, M. Stevens, P. Sheldon, P. Super, K. Ogunde, J. Zakim, D. Moonay
        J. Marek, D. Joyce, P. Bartell, S. Hayden, Jeff Hsu, F. Bavarian, P. Woosley,
        Y. Aouad
Benjamin G. Lamme Medal
Richard M. Morrow

Richard M. Morrow is Chairman of the Board and Chief Executive Officer for the Standard Oil Company of Indiana. After high school in Columbus, he attended John Carroll University for a time, served as an officer in the U.S. Navy, and then was graduated from Ohio State University in 1948 with the Bachelor of Mining and Petroleum Engineering degree.

He joined Amoco Production Company, a Standard subsidiary, as a junior engineer. By 1952 he was a senior field engineer in Texas and he was steadily promoted and moved. In 1965 he was Amoco International vice president. In 1974 he was Amoco Chemicals vice president, then the next year became president.

In 1978 Mr. Morrow was appointed president of Standard of Indiana, a position he held until 1983 when he was named chief and chairman. Known for being methodical, deliberate, and correct, he is credited with constructing drilling platforms under the most severe conditions imaginable. He also is credited with playing a key role in bringing along oil and gas fields in such locales as the Persian Gulf, North Sea, and Egypt.

Mr. Morrow is a director of the National Association of Manufacturers and the American Petroleum Institute. He belongs to the Society of Petroleum Engineers, the Rocky Mountain Oil and Gas Association, and is past president of the Chemical Industries Council. Active in civic and Episcopalian church affairs, in 1981 he was chairman of Chicago's United Way campaign and he is on the Economic Development Commission.

He is a trustee or director for the YMCA, a bank, a foundation, a medican center, and the University of Chicago. In 1975 he was named a Distinguished Alumnus of the Ohio State University College of Engineering. He is a member of the Alumni Association and the Presidents Club.
Distinguished Alumnus
Thomas J. Hanratty

Dr. Thomas J. Hanratty is Professor of Chemical Engineering at the University of Illinois, Urbana. He received the Bachelor of Science degree in Chemical Engineering in 1947 from Villanova University. In 1950 he received the Master of Science degree in Chemical Engineering from Ohio State University and in 1953 he received the Doctorate degree from Princeton University.

For a time after receiving the first degree, he worked for the process control equipment firm of Fischer and Porter in Warminster, Pennsylvania. As he worked at Ohio State toward his degree, he was a research engineer for Battelle Memorial Institute. From 1953 on, Dr. Hanratty has been at the University of Illinois, advancing from assistant to associate, then full professor.

In 1981, he was named to the Shell distinguished chair of chemical engineering. A specialist in turbulence and in fluid mechanics, Dr. Hanratty is a prominent and internationally-known researcher credited with the pioneering development of novel electrochemical techniques for use in turbulence studies.

He is a Fellow of the American Academy of Science and a member of the National Academy of Engineering. He is a member also of the American Institute of Chemical Engineers, the American Physical Society, and the American Chemical Society and was a National Science Foundation senior post-doctoral fellow.

In 1979 he was awarded the honorary doctorate by Villanova. Among many honors, he has received the McGraw Research Award of the American Society for Engineering Education and that professional group's Senior Research Award. Dr. Hanratty has also been named to received the Colburn Award, the Walker Award, and the Professional Progress Award of the American Institute of Chemical Engineers.
Distinguished Alumnus
James R. Farst

James R. Farst is Vice President and General Manager of Industrial Chemicals, for PPG Canada Inc., a subsidiary of PPG Industries. He attended Ohio State University and, in 1956, received the Bachelor of Science degree, awarded cum laude, and the Master of Science degree, both in Chemical Engineering.

As a student he was on Engineers Council, an officer of the Engineering Speaking Team, and president of the Council of Fraternity Presidents and also the student chapter of the American Institute of Chemical Engineers. He was also a member of Texnikoi, an organization which in 1963 named him its Outstanding Alumnus, and in the honoraries Phi Eta Sigma and Tau Beta Pi.

Mr. Farst joined PPG after graduation at the Barberton plant, his hometown. He was promoted to manager by 1962 and then moved as manager to the Lone Pine, California, plant. In 1967 he was named superintendent of the Beaumont, Texas, PPG operation and manager the next year. From 1974 to 1978 he was assistant works manager at the company's largest plant at Lake Charles, Louisiana.

In 1980 he was named to his present position at PPG Canada. He is known for a humane management philosophy which can be summed up by advice he gives to young engineers whom he urges to get into the habit of giving extra effort. Says Farst: "Sometimes that means tackling jobs that aren't pleasant, and it always means being willing to do at least as much as you expect from your people."

A loyal alumnus, he is a member of his home department's Advisory Committee and also is a member of the Committee for Tomorrow of the College of Engineering. He is an avid outdoorsman, has been involved in numerous civic service programs, and maintains an active interest in music through the church choir and barbershop quartet groups.
### Anniversary Classes

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Anniversary Classes (cont.)

1950 (cont)  
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P.W. Miessler  
J.R. Milne  
R.I. Mitchell  
L.J. Nowacki  
J.A. Olah  
K.D. Patel  
D.A. Plautz  
E. Pontius  
J.M. Quattlebaum  
G. Ramboseck  
R.J. Rathi  
C.C. Reddi  
H.F. Rein  
P.A. Retzke  
V.R. Rinehart  
R.B. Ritter  
J.D. Rogers  
E.C. Rosenberger  
B. Rubin  
R.L. Scott  
R.E. Sieber  
E.C. Sumner  
J. Teres  
R.E. Thompson  
J.J. Uebelhart  
J. Verkamp  
P.L. Wells  
D.W. Wilson  
F. Winterkamp  
A. Withrow  
B.T. Wolfson  

1955  

W.F. Avery  
C.L. Benford, Jr.  
M.N. Bhatt  
J.R. Blunden  
J.W. Bodenheimer  
R.F. Cook  
T.C. Core  
D.H. Crowe, Jr.  
R.A. Drewyor  
J.G. Fergusson  
C.E. Fleming  
H.L. Foltz  
W.B. Hamond, Jr.  
J.H. Hoge  
S.P. Huchro  
F.K. Lane  
D.S. Nantz  

1955 (cont)  
W.O. Overton  
R.W. Serfass  
S.W. Street  
K.R. Weaver  

1960  
V.L. Anderson  
C.E. Brooks, Jr.  
P.W. Brown  
C.N. Carpenter  
E.N. Cart, Jr.  
R.W. Chute  
D.R. Clay  
G.A. Grossley  
J.H. Davis  
D. Denny  
R.C. Dewey  
J.O. Estill  
D.O. Etter  
E.W. Fasig, Jr.  
W.I. Fox  
W.D. Gieseke  
D.T. Grube  
O.W. Gruebemeyer, Jr.  
R.D. Hall  
D.H. Heckman  
H.E. Henney  
G.R. Howard  
D.L. Jones  
J. Kanyok  
M.J. Kenworthy  
D.S. Kim  
K.D. Kurtz  
W.E. McAdams  
P.J. Mcateer  
M.H. Marshall  
D.F. Mathias  
A.P. Netzer  
D.J. Morton  
R.M. Moyer  
J.F. Nester  
K.L. Oates  
J.L. Ohler  
R.A. Perkins  
A.L. Schaller  
A.D. Skelton  
C.R. Smith  
L.R. Stewart  
W.F. Todd  
I. Weinstock  
E.L. White  
R.L. Wilt  
J.L. Withrow  

1965  
C.R. Anderson  
P.C. Arnold  
C.E. Bauman  
E.R. Corino  
J.M. Davidson  
D.L. Davies  
Y.L. DePaola  
T.W. Doub  
R.M. Dunlop  
R.E. Evanko  
F.H. Flor  
J.P. Gegner  
J.M. Genco  
D.W. Hisson  
R.R. Huddleston  
W.J. Kerns  
D.S. Kim  
H.W. Kim  
K.H. Lee  
W.E. Lewis  
T.C. McKelvey  
E.K. Middleswart  
J.W. Mills  
A.H. Morth  
L.R. Perkins  
L.W. Perkins  
F.J. Rerk  
M.C. Royer  
B.J. Rutd  
J.M. Sanghavi  
P.H. Schmitz  
P.A. Shaffstall  
W.A. Smith  
D.H. Stazenski  
L.A. Stichweh  
G.L. Street  
R.M. Veazie  
J.A. Weaver  
E.N. Wheeler  

1970  
C.M. Auh  
L.P. Clark  
P.E. Cooke  
G.E. Cressman  
J.F. Dietz  
B.F. Dunn  
R.E. Fajardo  
G.W. Good  
T.S. Groh  
D.R. Grove  
D.C. Grulke  

1970 (cont.)  
C.G. Guttman  
D.C. Haberkost  
A.E. Hafeez  
G.Q. Johnson  
A.J. Kaplan  
C.A. Klingensmith  
D.O. Kutscher  
H.R. Landers  
A.L. Larez  
M.S. Lerch  
M.M. Mehta  
M.L. Nevin  
D.R. Painter  
A.C. Patel  
G.A. Patel  
J.D. Rensel  
S.E. Russell  
W.P. Skinner  
J.N. Stamblis  
R.B. Strack  
F.A. Teeters  
Rosa Uy  
D.B. Wolfe  
H. Yieh  

1975  
K.A. Afolabi  
P.C.M. Auh  
P.G. Belcher  
C.T. Burwell  
S.L. Chen  
H.S. Cho  
M.T. Chow  
G.S. Cullen  
J.O. Dingilian  
L.R. Dossie  
J.T. Erickson  
G.L. Fadley  
R.D. Falter  
J.R. Farison  
R.N. Flagella  
W.R. Fontaine  
W.M. Fugel  
B.Ghorashi  
S.L. Grant  
E.A. Gruke  
V.L. Hershberger  
W.C. Hu  
T.S. Johnson  
J.A. Keen  
F.C. Knopf  
S.P. Lankton
1975 (cont.)
T.W. Marker
W. Mayo, Jr.
D.L. McGinn
J.E. Myers
C.E. Nethero
M.R. Okos
K.R. Pandalai
S. Papadimitriou
M.A. Patterson
D.H. Paulos
W.D. Peeples
S.A. Shubailey
R.B. Tait
S.S. Tam
J.R. Walker
J.S. Watt
J.O. Wright

1980
C.E. Aguilera
R.D. Alfonzo
R.J. Antone
M. Bagheri
L.L. Bell
J.R. Brown
C.A. Bur
M.R. Chen
P.C. Chung
F.T. Clark
P.S. Clark
P.A. D'Ambra
P.A. Dalton
G.S. Datsko
A.A. Dattilo
M.K. Davis
B.R. DeBruin
J.T. Dent
M.P. Dranschak
P.T. Dubetz
F.D. Ehrman
C.U. Ekeku
E.G. Farah
M.J. Galosi
M.A. George
B. Ghorashi
W.A. Hansen
W.F. Hammersley
C.A. Heselton
M.C. Hu

1980 (cont.)
J.P. Hullinger
S.J. Hwang
W.A. Jones
K.E. Kennedy
G.J. Krieski
J.E. Legenza
R.L. Mayer
C.O. Mora
L.M. Miller
M. Moore
L.L. Murphy
K. Ogunde
M.C. Oliver
K.Y. Park
D.M. Pentenburg
M.H. Peters
J. Petrarca, Jr.
S.L. Phillips
C.A. Proctor
G.R. Prok
W.R. Ramirez
S.R. Reiling
M.C. Reynolds
J.N. Rigano
C.A. Scheetz
D.R. Schweagerle
P.P. Shah
J.L. Shifflette
G.D. Shives
S.A. Sferra
E.M. Silva
A.A. Simon
D.S. Simpson
P.E. Steacy
R.J. Strack
T.L. Strickler
W.G. Stuber
C.W. Theuring, Jr.
M.A. Tornes
J.Y. Tou
D.G. Vutetakis
M.R. Warfield
Y.C. Yang
M.J. Zeto
K.W. Zimmerman
R.Z. Zitzman

1964 - M.B. Cutlip & W.C. Corder
Douglas Myers and David Zimmerman receiving the Central Ohio Section AIChe Awards from Prof. Kent Knaebel

Shahriar Khabiri receiving the Senior Central Ohio Section AIChe Award from Prof. Kent Knaebel

Greg Masica receiving the American Institute of Chemists Award Presented by Professor Robert S. Brodkey

Douglas Myers receiving the AIChe National Award from Prof. Harry Hershey