Dear Alumni,

With Spring Quarter beginning, Columbus will soon be greening and budding, a most delightful time of the year on campus. The Department is also in a period of growth.

We are very pleased that our efforts to recruit a biochemical engineer were successful and Dr. Shang-Tian Yang joined the faculty last September. He completed his Ph.D. work at Purdue University where he did his research on "Kinetics of Defined Methane Fermentation of Lactose" working with Professor Martin Okos, one of our graduates. "S.T." received his B.S. in Agricultural Engineering from National Taiwan University in 1976. He has been busy setting up a biochemical engineering lab and is offering a course in this area in spring quarter.

In the next couple of years we will be seeking two additional faculty in important emerging areas in chemical engineering, one in the area of polymer composites and a second person in biochemical engineering.

The job market is still not good, but last year was better than the year before. Our M.S. and Ph.D. students have been fairly successful in finding employment and almost 90% of last spring's B.S. students left school with a job offer or post-graduate education plan. Following the national trend, undergraduate chemical engineering enrollment has fallen and we expect only about 60 B.S. graduates in the year ending March 1987 and about 50 the year after.

The faculty continues heavy involvement in research, teaching and service (see listings under Faculty Activities and Publications and Presentations). Of special note are several awards. Professor Bob Brodkey received the Senior Research Award of the American Society of Engineering Education, and Professors L.S. Fan and Jim Lee received College of Engineering Outstanding Research Awards. L.S. was the first in the College to receive this award two times. We were honored to have Professor Daizo Kunii of Yokohama National University spend most of Autumn and Winter Quarters with us as University Distinguished Professor. Dr. Kunii collaborated in research with Dr. Fan and offered two courses in fluidization while he was here.

We were all especially proud that Emeritus Professor Web Kay had a symposium held in his honor, "Recent Developments In Experimental Techniques For Thermo-physical Measurements," at the AIChE Meeting in Chicago last December. Web and many of the major figures in thermodynamic research presented papers at the symposium. At our alumni reception in Chicago, he was presented with a Distinguished Service Citation from the College of Engineering. To demonstrate their appreciation to Web, a group of his former graduate students and others have established the Webster B. Kay Scholarship Fund.

We are also proud of the accomplishments of several of our graduate students. Doug Myers, B.S. '85, won NSF and DuPont Fellowships and is now working for his M.S. degree in the department. Andrew Farrell, B.S. '85, also won a DuPont Fellowship and is enrolled at the University of Tennessee. Each year the Graduate School has a fellowship competition for outstanding incoming graduate students. M.S. candidates Todd Hess (University of Cincinnati '84) and Keith Russ (Ohio University '85) won University Fellowships this past year. Only thirty of these Presidential Fellowships are offered campus-wide each year and this year three are in chemical engineering, Bing Yang, Keith Wisecarver and Yein-Ming Lee. Keith also received a Graduate School Alumni Grant for partial support of his research.
Alumni support of the Department during the past year was again gratifying. In 1985 more than $42,000 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 and we very much appreciate them. 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 specifically designate the Department of Chemical Engineering for your contributions and, wherever possible, to obtain company matching gifts. The 1985 contributors to the Department are listed in this report.

Not included in the $42,000 were gifts by Harold Almen '31 to set up the Harold W. Almen Scholarship Fund in Chemical Engineering and two bequests from the estate of Herbert Fenburr '34, '35, '37 for the Dorothy and Herbert L. Fenburr Scholarship Fund and for equipment for the Herbert L. Fenburr Laboratory.

Industrial support to the Department, exclusive of alumni matching gifts totaled $390,000 in 1985. We also received contributions of industrial equipment and are seeking additional contributions. The faculty has prepared a list of needed items. If you learn of any surplus equipment available in your companies which might be useful to the department, or if you wish a copy of the list, please let me know.

We have noted over the years that some Anniversary Classes have had unusually successful reunions at ACE Day. For example, last year the Class of '55 had a very exciting get-together. The most successful have been those in which one or two members have contacted their classmates and organized a reception or dinner. The department has provided names, addresses and where possible, telephone numbers. We would be happy to help any alumni who would like to organize such an event. While it may be late for 1986, it isn't too early to think about Friday May 15, 1987. Let me know if we can assist any of you in this enterprise.

We hope to see many of you on ACE Day, May 16.

Sincerely,

Jack Jenkins

P.S. The Department will again sponsor a reception for alumni and friends, probably on Tuesday November 4, 1986 at the AIChE Meeting in Miami Beach. So, if you can, please stop by and renew acquaintances and meet new faculty and say hello to former teachers. A notice with details will be sent to you in October.

P.P.S. Additional views of the Department can be found in the January 1986 issue of the OSU News in Engineering (Page 17).
1985 Contributors

TO THE DEPARTMENT OF CHEMICAL ENGINEERING

1917
WALLACE KENNEDY

1921
HAROLD W BAQUE

1922
DR ROBERT F HEALD

1923
EDGAR C HENDRICKSON
GORDON H MUTERSBAUGH
EDWARD D TURNBULL

1925
ROBERT O KOLTZ

1926
CHESTER G LANDES

1927
SAMUEL AROOFF

1929
FRANK L DURR
JULIUS L HOELSCHER
ELWOOD B LAYFIELD

1930
PARKER S DUNN
WILLIAM TUCKER

1931
HAROLD W. ALMEN

1932
SAMUEL S JOHNSTON
DR LEE A PARKER

1933
HENRY S CURTIS
BENJAMIN FINER
LEON K GROVE

1934
DR. HERBERT L. FENBURR
CLARENCE N FISHER
OWEN G HOWARD

1935
HAROLD C KLASSEN
DR LINTON E SIMERL

1936
RICHARD A MILLER
JOSEPH G MRAVEC
WILLIAM A TAYLOR

1937
DR HARVEY H GRICE
ALBERT R SHORKEY
ROBERT T WHITAKER

1938
FREDERICK EASTMAN
VICTOR J HARRIS
EDWARD J HAVEN
DAVID M MILLER
ROBERT S RADO
GEORGE S TOBIAS

1939
LEWIS R KRIEG
DR EUGENE C PONTIUS
HOWARD G ROHRER

1940
CLAY H ANESHANSLEY
CHARLES H BOARDMAN
HENRY J JACOBY
ROBERT L LAMBERT
ROGER M WARNER

1941
LELAND W BLAZEY
CHARLES A KELLER
FRANK VACLAVIK
ROBERT L WALDVOGEL
ROBERT P YOUNG

1942
DONALD S ARNOLD
RANDAL F BAILEY
EDMUND DUPAGA
DR FORREST R HURLEY
MAURICE M LOWMAN

1943
LOUIS C BEALE
WILLIAM H CAMERON
DALTON F DRAKE
CARL F EFFLER
GLENN L GIFFORD
LEONARD A HARRIS
DR MYRL E MILLER

1944
HAROLD PIERCE JR
RAYMOND K RITZERT
ROY E SCHNEIDER
CARLYLE E SHOEMAKER

1946
WILLIAM R. HARRIS
GEORGE H MONTGOMERY
GROVER C STRICKLER JR

1947
KENNETH A BRANDSTETTER
CHARLES R HALL
HAROLD J OGLEVEE

1948
DALLAS D DUPRE III
MYRON B KRATZER
DONALD G SCHROETER
ALOYSIUS M SEBIAH
MARION P WIAINT

1949
ROBERT L BATES
DAVID H GEORCE
JOHN G GERLACH
EARL W GOODMAN
RICHARD L HOFFMAN
NEWTON H JOHNSON JR
HARLAN W KLINE
DR F ROBERT MAYFORTH
ROBERT M TARR

1950
PAUL E BATES
GORDON G CROSS
RAYMOND D HAMMOND
MAURICE R HETLER
DR JOHN B MARTIN
RICHARD N MILLER
ROLAND I SPENCER
DAVID F STEWART

1951
DR WALTER E DONHAM
LT COL ROBERT E DUVAL
DONALD E. GARRETT
WILLIAM W GRIMES
ROBERT D HABER
DAVID W HARDESTY
DR PRESTON L HILL
RICHARD H IMMEL
1985 Contributors (cont.)

1960
  VIRGIL L ANDERSON

1961
  PAUL R BIGLEY
  RONALD L FOLLMER
  JAMES H MCMICKING
  JOHN N RAPACH

1962
  KENNETH J FULK
  WILLIAM R HARRIS
  DR RICHARD L HOFFMAN

1963
  WILLIAM C CORDER
  ROBERT P KASPER
  FRED A SHAFFSTALL
  WILBUR H SIDNER

1964
  MICHAEL B CUTLIP
  DR ROBERT G DUNN
  ALAN K KOCHSIEK
  GIRISH D PARikh

1965
  DR EDWARD R CORINO
  LOUYS W PERKINS
  FREDERICK RERKO

1966
  DR DAVID E BIDSTRUP
  LINDA L JARRETT
  WILLIAM G LOWRIE

1967
  PATRICK D CULMAN
  KEITH A DUNNIGAN
  FRANK W HAUSCHILDT JR
  DENNIS W HURLEY
  DR MARTIN R OKOS
  DONALD E SAUNDERS
  JOHN M YACHER

1968
  DR JERRY R BARBER
  JOHN R CAMERON
  LAWRENCE H GREEN
  DR DOUGLAS W HISSONG
  RICHARD T LINAK
  DR GEOFFREY A LINDSAY
  DAVID L LULL
  JAMES W SEBERT
  DOUGLAS E SMITH
  DR JAMES E WILLIAMSON

1969
  DR KIU HEE LEE

1970
  GEORGE E CRESSMAN JR
  MICHAEL S LERCH
  WILLIAM P SKINNER
  RICHARD B STRAIT

1971
  KAREN L HENRIKS
  DR STEPHEN ZAKANYCZ

1972
  RICHARD A CREE
  THOMAS J RUSNAK

1973
  DAVID A DARGAN
  DR JORGE A GUZMAN

1974
  RObERT C MCKEE
  JOHN E MYERS
  MICHAEL J PEDERSEN
  WILLIAM M PEKMAN
  JOHN C REINDL

1975
  JOHN T ERIKSON
  DR WAYNE R FONTAINE
  DR YOON SOO SONG

1976
  RObERT R HOLBROOK

1977
  DR GARY B TATTERTSON

1978
  TIMOTHY L BURNS
  DR EDWARD J LEVINE
  DONALD L MCDOWELL
  PAUL W VANCE JR
  THOMAS E WINKLER

1979
  JUDY H INDOF
  GARY S PHILLIPS

1980
  DR PAUL A D'AMBRA
  MATTHEW J GALOSI
  MARK A GEORGE
  GARY R PROK
  JAMES N RIGANO
1985 Contributors (cont.)

1981
RAYMOND J ROLLEY JR
JAMES R VANGELOFF
AMY L VANGELOFF
HARRY C WOLF JR

1982
MIKE A GREENE
VICTORIA S MCCAULEY
CHRISTINA S SISTRUNK
ANNETTE HISSONG TAYLOR
ERIC A WARREN
ANDREW M WEBER

1983
BARBARA M BACSKAI
MARK D DIERINGER
LINDA S EVANS
SAMUEL D FINK
DAVID J GRIGGER
JULIE A MINDERMAN
KEITH R NOWAK
CHRISTOPHER R RICHEID

FRIENDS OF THE DEPARTMENT

FRANK J ALDORA
MRS BRIAN DAVENPORT
LTC RUSSELL F DUBES
MARILYN E GEORGE
ROBERT R KLINGE
HERBERT V MCCOY
DOROTHY L PICKENS
NANCY P PICKETT
DR HAROLD E WILCOX

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Industrial Contributors

ALCOA FOUNDATION
AMAX FOUNDATION
AMOCO FOUNDATION
ARCO FOUNDATION
ASHLAND OIL INC. AND FOUNDATION
CELANESE CORPORATION
COUNCIL FOR CHEMICAL RESEARCH
DOW CHEMICAL CO. FOUNDATION
DOW CORNING CORPORATION
ECO POWER, INC.
E I DU PONT DE NEMOURS
EXXON EDUCATION FOUNDATION
GENERAL MOTORS FOUNDATION

HUNTSMAN
LUBRIZOL
MONSANTO CO.
PLASKOLITE
PORTLAND TRUST
PPG IND. FOUNDATION
PROCTER & GAMBLE FUND
ROHM & HAAS CO.
SHELL COMPANY FOUNDATION
STANDARD OIL COMPANY (SOHIO)
TEXACO FOUNDATION INC.
UNION CARBIDE CORPORATION

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Ed Smith, '42,'47,'49
Al Syverson, former chairman, Web Kay, '22

Jack Zakin Greetings
### Staff Members

**Professors**
- R.S. Brodkey
- L.S. Fan
- 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

**Assoc. Professors**
- K. Svanks (Emer.)

**Asst. Professors**
- J. Davis
- K.S. Knaebel
- L.J. Lee
- W.K. Lee
- U.S. Ozkan
- S.T. Yang

**Adjunct Professor**
- J.A. Brothers
- C. Scaccia

**Distinguished Visiting Prof.**
- D. Kunii

**Visiting Professors**
- R.F. Hajjar (Fulbright)
- S. Magdassi

**Post Doctoral Fellow**
- K. Fujie

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

**Visiting Research Scholar**
- L. Du
- M. Tong

**Administrative Associate**
- J.F. Teeple

**Secretaries**
- *S.E. McDonald
- S. Newsom
- F. Osborn

**Design Engineer**
- M.B. Kukla

**Instrument Maker**
- R.H. Canegali

**Teaching Associates**
- F. Bavarian
- H. Chang
- L. Economikos
- S. Jagannadh
- S. Khabiri
- K. Kolliopoulos
- S. Lee
- E. Moctezuma
- J. Qi
- R. Rao
- T. Ramesh (Eng. Graphics)
- G.C. Shen
- S. White
- K. Yam
- R. Yurick

**Administrative Assoc.**
- G. Gawthon
- J. McDowell
- B. Weinstein

**Research Associates**
- J.D. Fan
- R. Gill
- Y.J. Huang
- T.C. Hsu
- R. Jean
- K. Johannis
- G. Johnson
- J. Kayser
- B. Kreisher
- M. Matz
- M. Munson-McGee
- S. Shin
- S. Shum
- G.A. Song
- C.C. Tong
- K. Tsuchiya
- K.J. Wang
- Y.S. Yang

**M$^2$R$^2$I Trainees**
- M. Baich
- C.Y. Chen
- W. Tang

**GPOP Fellow**
- P. Wiley

**Fellowships**
- Amoco
- D. Arters
- Dow Chemical
- J. Merkle
- DuPont
- J. Giordano
- J. Lents
- D. Myers
- C. Shoemaker
- D. Vutetakis
- Exxon
- T. Heeb
- Arno C. Fieldner
- J. Hsu
- General Motors
- J.D. Fan
- J. Hsu
- Huntsman
- Y.S. Yang

**Koffolt**
- C. Fang
- Y.M. Lee

**Monsanto**
- G. Gawthon

**Owens Corning**
- T.J. Green

**Plaskolite**
- Y. Huang

**Proctor & Gamble**
- G. Gawthon

* Editor of Annual Report
Staff Members (cont.)

Fellowships (cont.)
Presidential Fellowship
Y.M. Lee
K. Wisecarver
B. Yang

Roberts
J. Pan
S.-W. Chiu

Rohm & Haas
J. Merkle

Shell
S. Fink
S. Schlasner

Sohio
D. Moonay

Union Carbide
P. Chung
K. Lakshamanan
J. Kayser

National Science Fdn.
D. Myers

University Fellowship
K. Russ
T. Hess
R. Hernandez

Scholarships
Alcoa
C. Finafrock

Ashland
R. Hill
R. Nolan

Goodrich
M. Klasse
K. Murphy
D. Vance

Goodyear
A. Wescott

Scholarships (cont.)
Hammond
R. Berg
J. Calderas
C. Caudell
J. Courts
P. Erdy
M. Grady
D. Johnson
W. Macesich
D. Monnin
D. Noe
K. Oney
K. Schimpf

Hoge
J. Adams
J. Baker
S. Barnicki
A. Brough

Lubrizol
J. Gorowara
B. Molloy

Monsanto
D. Davis
J. Hock
K. Karbon
C. Musacchio
M. Patacca

Texaco
J. Sarna
K. Srael

Whirl
D.A. Boey
W. Irvin
R. Shields

Withrow
T.M. Allen

Stephanie Sung receiving the AIChe Outstanding Sophomore and Junior Awards from Kent Knaebel

G.R. Prok, Class of 1980
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.

Professor Bob Brodkey's fluid mechanics activities have now taken him into studies of image analysis and processing. He received two important recognition awards during the past year. He was selected as winner of the Senior Research Award of the American Society for Engineering Education and he was elected a Fellow of AIChE. He presented invited seminars at Owens Corning, Monsanto and DuPont. He also is completing coauthoring a transport text with Harry Hershey. Bob is Chairman of the American Physical Society - Division of Fluid Mechanics Meeting to be held at Ohio State (starting the weekend of the Michigan game in November). He is also Organizing and Session Chairman for sessions on Turbulence and on Mixing at the Miami AIChE Meeting in November, and a member of the Organizing or Scientific Advisory Committees of the Tenth Symposium on Turbulence (University of Missouri-Rolla, September 1986), Fifth Beer Sheva Seminar on MHD Flows and Turbulence (Ben Gurion University, March 1987) and 2nd International Symposium on Transport Phenomena in Turbulent Flows (University of Tokyo, 1987). He also served on an ABET/AIChE Accreditation Visiting Team last fall.

Professor Jim Davis is continuing his activity in expert systems (artificial intelligence). He completed his tour as Faculty Advisor to the Student Chapter of AIChE when Harry Hershey returned from Professional Leave.

Professor L.S. Fan's work in multiphase fluidization is receiving increased recognition. Last year he received an Outstanding Senior Research Award from the College of Engineering, the first faculty member to receive this award twice. Dr. Kito of Hokkido Government Research Laboratory is working as a post doc with him. Dr. D. Kunii of Yokohama National University spent five months collaborating with him as Ohio State Distinguished Visiting Professor. During the past year L.S. has had research support from the Petroleum Research Fund, NSF, Department of Interior, Department of Energy, the Office of Geological Survey (Department of Interior) and Amoco Oil Company. He recently received a U.S.-Korea International Grant for collaborative research. He is a member of the Board of Directors, OSU Sigma Xi Chapter and was elected Vice-Chairman, AIChE National Program Committee, Area 2G - Fluidization and Fluid Particle Systems. He served as Chairman of a Fluidization session at the AIChE Meeting in Chicago in November. L.S. presented four invited seminars this year - at the Water Resources Center at OSU, at the University of Illinois at Chicago, at McGill University and at the University of Pittsburgh.

Emeritus Professor Christie Geankoplis is teaching part-time at the University of Minnesota and is consulting one day a week.

Professor Ed Haering turned out another batch of Unit Operations Lab alumni last summer. He has been a technical consultant and expert witness on several national cases.

Professor Harry Hershey returned to full-time status from his professional leave last year. He and Bob Brodkey have essentially completed their textbook, Transport Phenomena: A Unified Approach and it will be published by McGraw-Hill as part of their Chemical Engineering Series. Harry also taught refresher courses on thermodynamics and fluid mechanics for the PE Exam. After his leave in 1984-85, he is again serving as advisor to the Student Chapter of AIChE.
Professor Kent Knaebel continues to serve on the Executive Committee of the Central Ohio Section of AIChE. He received a grant originating from the air force for work on pressure swing adsorption which will be renewed this year. Kent gave invited seminars at Air Products and BOC last year. He chaired two sessions at the AIChE Meeting in Chicago last November. He is a member of the Separations Subdivision Committee of ACS and the Adsorption and Ion Exchange Committee of AIChE and served on a Review Panel on Challenges and Opportunities in Separation Science and Technology for Dilute Solutions sponsored by the National Research Council and DOE. He also taught PE refresher sessions in process design and mass transfer.

Emeritus Professor Web Kay continues to work with graduate students and to collaborate with Professor Teja of Georgia Tech on an improved technique for making thermodynamic measurements. In addition to writing papers and the exciting events in Chicago described earlier, Web has become interested in oil well drilling in the North Sea. He recently presented a lunch-time seminar on this subject to faculty, students and staff.

Professor Jim Lee's polymer research program continues to prosper. He received a College of Engineering Junior Faculty Outstanding Research Award last year. He presented invited talks at the Founding Meeting of the Polymer Processing Society in Akron and the Spring Meeting of the Thermo Process Molding Committee of the Society of Plastics Industry in Fort Wayne. His research was supported by NSF, Thomas Edison Program of State of Ohio (with Plaskolite Company), General Motors, Amoco Young Faculty Development Grant and Huntsman Chemical Company.

Professor Won Kyoo Lee is now on the Executive Committee of the Central Ohio Section of AIChE. He has several students doing research in process control.

Emeritus Professor R. Emerson Lynn stopped in Columbus last summer and announced that he and his wife had sold their summer place in Ohio and their boat. They continue to enjoy living in Florida.

Professor Umit Ozkan has gotten her catalysis laboratory organized and received grants from Battelle Northwest (DOE) and Amex Foundation. Umit presented an invited seminar at the University of South Florida. She also became a Registered Professional Engineer in the State of Ohio.

Professor Duane Skidmore's coal research on desulfurization of coal by microbial action received support from Amoco, Sulzer Brothers and Babcock and Wilcox. Duane gave invited talks on his research to Air Products, Amoco, Foster Wheeler, General Motors, American Cyanamid and the University of Kentucky. He also made a presentation at the Engineering Research Foundation in Henniker, N.H. and lectured at a short course on coal offered by the European Industry Conference in Amsterdam, Holland.

Emeritus Professor Skip Slider will be teaching two courses in petroleum engineering during Spring Quarter. Skip gave invited talks at the National Conference of Petroleum Independents in Pittsburgh and at the University of Michigan. He conducted four 5-day short courses, two for Texaco in New Orleans and Houston and open courses in Houston and Denver. He also presented an 8-day training workshop for the U.S. Bureau of Land Management Engineers and Geologists in Billings, Montana. Skip continues to be a member of the Research Committee of the Interstate Oil Compact Commission.

Professor Ed Smith's fire research work continues to be very active. He serves on ASTM Committee E 05 (Fire Standards) as Chairman of the Task Group on Release Rate Tests (E 05.21.20), Chairman of the Task Group on Combustibility (E 05.23.02), and member of the Planning and Review Committee (E 05.91). The ASTM Release Rate Test which Ed developed is the test standard used in government requests for research
Faculty Activities (cont.)

proposals. He is also a member of the Committee on the Toxicity of the Products of Combustion of the National Fire Protection Assoc., the Advisory Committee of the Annual Conference on Fire Safety and the Editorial Advisory Board of the Journal of Fire Sciences.

Emeritus Professor Al Syverson continues to serve on the Department Advisory Committee. He and his wife live in Worthington.

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

Professor Tom Sweeney continues to serve as Associate Vice President for Research and Graduate Studies. He presented the opening talk, "Web Kay, the Man," at the Symposium honoring Web Kay. Tom serves on the Ohio Hazardous Waste Facility Approval Board. Tom co-edited "Management of Toxic and Hazardous Wastes," the proceedings of the Third Ohio Environmental Engineering Conference.

Professor S.T. Yang is getting his biochemical engineering research laboratory organized. S.T. presented an invited seminar to the OSU Department of Food Science and Nutrition.

Professor Jack Zakin's collaborative research with Dr. D.H. Fruman of Ecole Nationale Superiere de Techniques Avanceses (near Paris) on transport of viscous crude oils as concentrated oil-in-water emulsions is supported by NATO. In November, he served on an ABET/AIChE Accreditation Visiting Team. He was also a member of Chemical Engineering magazine's Kirkpatrick Award Committee and is Chairman of the Council for Chemical Research Scientific Manpower and Resources Committee. He is Co-Chairman of the Tenth Turbulence Symposium to be held in Rolla, Missouri in September 1986, Treasurer of the Organizing Committee of the American Physical Society – Division of Fluid Dynamics Meeting to be held at Ohio State in November, 1986 and a member of the Organizing Committee of the Fifth Beer Sheva Seminar on MHD Flows and Turbulence (Ben Gurion University, March 1987). Last year he was an ACS Tour Speaker giving lectures in the Penn-York region (Bradford, Erie, Wycliffe, and Youngstown). He also gave invited seminars at Lubrizol and at the University of Illinois at Urbana.

Kelly Jones receiving the AIChE Outstanding Senior Award

D.H. Paulos, J.R. Walker, J.R. Farison, Class of 1975
Publications and Presentations


Gaston, M.H. and D.R. Skidmore, "Preparation of 1,2,3,4-tetrahydro-1,4 d₂-Naphthalene-1,4,5,6,7,8-d₆," Organic Preparations and Procedures - International Briefs, Vol. 17, No. 2, Pg. 138-140, April, 1985.


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**Theses**

**Ph.D Theses**

Chung, Pong Chung, B.S. (National Tsing-Hua); M.S. (Ohio State Univ.); "Time-Dependent Rheology of Polymer Solutions," (Advisor: R. Brodkey).


Lakshmanan, Krishnan, B.S. (University of Madras); M.S. (Ohio University); "Quantitative Computer Image Processing of Color Particle Markers in Flow Visualization," (Advisor: R. Brodkey).


**Master's Theses**

Ball, Douglas J., B.S. (University of Detroit); "Comparison of the Static and Dynamic Sorption Capacities of 4A and 5A Zeolites," (Advisor: K. Knaebel).


Chang, Hsuan, B.S. (National Taiwan Univ.); "Efficiency Analysis by Availability Function, Exergy and Essergy," (Advisor: J. Davis).

Master's Theses (cont.)


Fan, Jyh-Dar, B.S. (National Taiwan Univ.); "Optimal Molding of Polyester Sheet Molding Compound," (Advisor: L.J. Lee).


Johnson, Gregory K., B.S. (Univ. of Kentucky); "Coal Liquefaction Using Spent Shale as a Catalyst," (Advisor: D. Skidmore).


LiCause, Michael F., B.S. (Bowling Green State Univ.); "Experimental Study on Modeling of Affinity Chromatography," (Advisor: W.K. Lee).


Moonay, David J., B.S. (Hamilton College); "Investigation of Cationic Surfactant Solutions and Dilute Oil-in-Water Emulsions as Drag Reducers," (Advisor: J. Zakin).


Qi, Jian, B.S. (Qinghua University); "Rheological Properties of Emulsions," (Advisor: R. Brodkey).


Placement of Chemical Engineering Graduates

June 1983

Doctor of Philosophy

S.-J. Hwang, National Tsing Hua University, China

Master of Science

S.-M. Cha, Graduate School, Mississippi State University
H. Chang, Graduate School, Ohio State University
S.-W. Chiu, Graduate School, Ohio State University
J.-D. Fan, Graduate School, Ohio State University
C.-S. Jung, Graduate School, P.I.N.Y.
M.F. LiCausa, Proctor and Gamble, Cincinnati, Ohio
J.M. Marinelli, Amoco, Naperville, Illinois
M.T. Mencl
L.T. Pham, NASA, Florida
B.A. Pierce, Union Carbide, S. Charleston, West Virginia
T.H. Plegue, Owens Corning, Granville, West Virginia
R.A. Richard
K. Wang, Graduate School, Ohio State University

Bachelor of Science

D.G. Abernathy, Occidental Chem. Co., Niagara Falls, N.Y.
F. Bavarian, Graduate School, Ohio State University
A.W. Burr, Union Carbide, Houston, Texas
T.C. Burnham, Harshaw-Filtrol, Cleveland, Ohio
J.L. DeFilippo, Medical School, Univ. of Cincinnati
L.J. DeMorr, Dow Corning, Midland, Michigan
K.H. Driscoll, Graduate School, Ohio State Univ.
D.E. Engler, Proctor and Gamble, Cincinnati, Ohio
R.G. Facer, EDS, Warren, Michigan
A.E. Farrell, Graduate School, Univ. of Tennessee
D.A. Flautt, Union Carbide, Charleston, West Virginia
A.M. Gajdoss, General Dynamics, San Diego, California
M. Ghofraniha, Graduate School, U. of S. Cal.
C.A. Hall, Dow Corning, Midland, Michigan
S.G. Harris, Westvaco, Covington, Virginia
M.J. Hogan, Medical School, University of Cincinnati
S.P. Hughes, Proctor and Gamble, Cape Girardeau, MO
T.A. Johnson, Frito Lay, Dallas, Texas
K.E. Jones, Corning Glass, Corning, N.J.
L. Kiae, Graduate School, Ohio State University
R.M. Kiessling, Delco Electronics, Kokomo, Ind.
C.W. Kretzcrman, Corning Glass Works, Corning, N.Y.
D.A. Lodwick, Westvaco, Covington, Virginia
D.M. Love, Oscar Meyer Foods, Madison, Wisconsin
S. Lugibihl, Dowell-Schlumberger, Tulsa, Oklahoma
J.L. Macarius
D.A. May,
Placement (cont.)

June 1985 (cont.)

Bachelor of Science

C.D. Moss, PPG Ind., Pittsburg, PA
S. Mowatt-Larssen, Grad. Sch., Purdue Univ.
D.R. Myers, Graduate School, OSU
K.J. Petre, Dow Chemical, Midland, MI
T.A. Pierce, Industrial Rise Ins.
M.K. Roper
K.A. Shannon
P.L. Sheldon
D.B. Shields, Kyocera, San Diego, CA
S.A. Stevenson, Honda, Marysville, OH
R.T. Strait, Medical School, Toledo, OH
P.A. Taiganides, Graduate School
R.E. Treudler
B.M. Tylock, Battelle Memorial, Cols, OH
P.J. Vanek, Occidental Chem.
L.J. Wellendorf, Goodyear Tire & Rubber
J.W. Welsh, Union Carbide, Charleston, W.VA.
T.V. Wilcox, Amer.Cyanamid, Willow L, W.VA.
M.J. Yost, American Cyanamid
D.A. Zimmerman, IBM, Manassas, VA

August 1985

Doctor of Philosophy

No degrees granted

Master of Science

T.D. Burns, Dow Chemical, Midland, MI
G.S. Datsko
A. Ebrat, General Motors, Flint, MI
G. Fang, Graduate School, OSU
R.-H. Jean, Graduate School, OSU
H.W. Mobley, III, Dow Chemical, Midland, MI
G.-H. Song, Graduate School, OSU
W.-T. Tang, Graduate School, OSU

Bachelor of Science

B.D. Jones, Corning Glass Works, Corning, NY
K.W. Sulcebarger
M.E. Vetter, Dow Corning, Midland, MI

December 1985

Doctor of Philosophy

P.C. Chung, Ling, Baltimore, MD
D.G. Vutetakis, Battelle Memorial, Cols., OH

Masters of Science

D.J. Ball, General Motors, Saginaw, Michigan
D.J. Moonay, U.S. Naval Research Labs., Washington, D.C.
M.L. Munson-McGee, Hallofane, Newark, OH

Bachelor of Science

L.G. Adams
D.A. Boey, Goodyear Tire & Rubber, Akron, OH
L.A. Burkhart, GTE Sylvania, Versailles, KY
E.D. Culp, United McGill, Groveport, OH
M.R. Gaynes
C.L. Hall, Goodyear Tire & Rubber, Akron, OH
A. Krichene, Graduate School
G.W. Stutzmann, Abbot Lab., N. Chicago, IL
V.S. Wheeler, Battelle Memorial, Cols, OH

BACHELOR OF SCIENCE
Median Salary $27,984

MASTER OF SCIENCE
Median Salary $31,380
March 1986

Doctor of Philosophy

K. Lakshmanan, Program Resources, Inc., Raleigh, N.C.

Master of Science

G.K. Johnson, Graduate School
J. Qi, Graduate School, Ohio State Univ.
R.M. Yurick
B.J. Zehner, Abbott Laboratories, Chicago, IL

Bachelor of Science

R.M. Canright,
C.Z. Layer, Frito-Lay, Inc., Dallas, Texas
M.L. McCormick

David Zimmerman receiving the
American Institute of Chemists Award
Presented by Robert S. Brodkey

J.R. Blunden, S.W. Street, R.W. Serfass, W.B. Hammond, Jr.,
J.H. Hoge, H.L. Foltz, C.L. Benford, Jr.
Class of 1955

21
Class of 1985

**ROW 1**  Eric Culp, Terry Wilcox, Scott Lugibihl, Michael Yost, Mark Hogan, Keith Driscoll, Dr. Brodkey.

**ROW 2**  Virginia Midkiff, Fereshteh Khorrami, Christina Hall, Mehrdad Ghofraniha, Laura DeMoor, Debbie Boey, Kirsten Petre.

**ROW 3**  Kathy Shannon, Caren Layer, John DeFilippo, David Love, Graeme Garascadden, Ted Burnham.

**ROW 4**  Dave May, Dave Shields, Penny Vanek, Dave Flautt, Ginny Wheeler.

**ROW 5**  Steve Hughes, Mark Vetter, Leila Kiaee, Maria Ciliberti, Lisa Adams.

**ROW 6**  Carl Kretchman, George Stutzmann, Lori Wellendorf, Rick Strait, Leslie Burkhart, John Welsh.

**ROW 7**  Dr. W. Lee, Becky Kiessling, Dave Zimmerman, Andy Bur, Doug Moss, Tim Johnson, Kevin Bird, Perry Sheldon, Dr. Ozkan.

**ROW 8**  Dr. Fan, Randy Treudler, Scott Harris, Dave Lodwick, Ed Grodecki, Doug Myers, Stig Nowatt-Larsson, Charlie Hall, Roger Facer, Adel Krichene, Dave Abernathy, Andy Farrell, Dr. Zakin, Dr. Skidmore, Dr. Hershey, Paul Taiginides, Tim Pierce.
Distinguished Alumnus
William G. Lowrie

William G. Lowrie is Vice President, Supply and Marine Transportation, Standard Oil (Indiana), headquartered in Chicago. Mr. Lowrie, an Ohio native, received the Bachelor of Chemical Engineering degree with the Petroleum Option in 1966 from Ohio State University. As a student he was in the engineering fraternity Theta Tau and the honorary Texnikoi. In 1979, he received the Texnikoi Outstanding Alumnus Award.

After graduating, he joined Amoco Production Company and served in Louisiana, Oklahoma, Colorado, and Illinois, rising to the position of vice president for production with some 23,000 oil and gas wells on millions of acres in his charge.

As supply and marine transportation chief for Standard, Mr. Lowrie buys and sells about 1.6 million barrels of oil per day and controls the movement of a fleet of 18 tankers in the out of the volatile Persian Gulf area. He also supervises a chemicals and products group and a purchasing department with a staff of about 400 people.

Mr. Lowrie is an extraordinarily good friend to his school. He is a life member of the Alumni Association, a member of the Century Club of the Ohio State development fund, and has served on the College of Engineering Committee for Tomorrow. He is a charter and highly valued member of the Department of Chemical Engineering Industrial Advisory Committee.

On the civic side, he has served as a director for the Colorado Civic Education Foundation and for the University of Kansas Minority Engineering Organization. He is a member of the American Petroleum Institute and an exceptionally active member of the Society of Petroleum Engineers. He chaired a section of the SPE, chaired a national meeting of that group, and has held many other offices with this professional organization.

Note: After receiving this award, Bill Lowrie became President of Amoco Canada Petroleum Co., Ltd. Calgary, Alberta, Canada.
Texnikoi Award
Dr. Eugene L. Jarrett

Dr. Eugene L. Jarrett is Director of Technology, Silicones and Urethane Intermediates Division, Union Carbide Corporation Technical Center in South Charleston, West Virginia. He received the Bachelor of Science degree in Chemical Engineering in 1963 from West Virginia University. From Ohio State University in 1966 he received the Master of Science degree and in 1968 the Doctorate degree, both in Chemical Engineering.

After graduating, Dr. Jarrett joined Union Carbide and developed reaction kinetics for the low pressure oxo process, work which won for Carbide the 1977 Kirkpatrick Award from "Chemical Engineering" magazine. He also worked to develop a high pressure polyethylene process for the Union Carbide plant in Seadrift, Texas.

In 1976 he was named technology manager for synthesis gas operations and in 1978 also took responsibility for premium coke. He served in 1980 as the on-site manager of research and development for the company's advanced cracking reactor demonstration unit in Texas. In 1981 Dr. Jarrett was named associate director for polyolefin R&D at South Charleston and pioneered development of advanced techniques to produce polyethylene and polypropylene.

He was in 1984 named to his present post, where he holds responsibility for research, development, and engineering in urethane intermediates as well as associated products. Dr. Jarrett is a member of the engineering honorary Tau Beta Pi and the American Institute of Chemical Engineers.

He is involved in church work and Scouting activities and serves on the board of directors for the West Virginia committee for the Prevention of Child Abuse. He is a registered professional engineer and makes regular recruiting visits on behalf of his company to Ohio State University.
## Anniversary Classes

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* No current information available. If you know their address, please send it to us.
## Anniversary Classes (cont.)

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<td>P. Alexander, Jr.</td>
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* No current information available. If you know their address, please send it to us.
1981 (cont.)

L.T. Tran
*J.M. Urdaneta
A.S. Vangeloff
J.R. Vangeloff
D.G. Vutetakis
S.M. Wiegley
H.C. Wolf, Jr.

J.R. Caddell, J.H. Miller
W.R. Fisher, R.L. Lambert
Class of 1940

R.L. Scott, W.W. Grimes,
J. Anderson
Class of 1950

C.E. Brooks, Jr.,
I. Weinstock
V.L. Anderson,
O.W. Gruebmeyer, Jr.,
Class of 1960

* No current information available. If you know their address, please send it to us.
H.L. Hamilton, Class of 1930

Bob Brodkey, W.R. Fisher, W.-K. Lee