Chemical Engineering

Forty-First Annual Report to the Alumni

1989

THE OHIO STATE UNIVERSITY
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Web Kay. Web has been doing some glass blowing and fixing up the experimental equipment.

Prof. Jim Lee and Michael Kukla received special and well-deserved awards in 1988. Jim was one of only four recipients of the College of Engineering Senior Research Award. Mike was selected as Technician of the Year by the Columbus Sections of the American Chemical Society and the Technician Affiliate Group.

In Spring Quarter, the Department sponsored a Heterogeneous Catalysis Lecture Series. Six noted researchers from leading catalysis research groups visited the Department for one or two days and presented seminars on their current research to our students and faculty. A number of researchers from industry from all over the state of Ohio also attended. We are organizing a similar series in Biochemical Engineering this Spring.

The University Capital Campaign is nearing its original goal of $350 million. Chemical Engineering alumni who wish to have their contributions directed to the Department can specify this by writing "Department of Chemical Engineering" on pledge cards distributed by the OSU Development Office. Alternatively, if you send a contribution to the Department, we will process it. Funds we receive enable us to enrich our programs and provide a margin for excellence in the education of our students. Last year contributions from alumni and friends totalled over $60,000 (including matching company gifts). The faculty, the students and I appreciate this support very much. The loyalty of our chemical engineering alumni is a source of great pride to us. The 1988 contributors to the Department are listed in this report.

Last November we had a very nice reception for alumni and friends of the Department in Washington, DC at the AIChE Annual Meeting. We plan to hold another at the Annual Meeting in San Francisco next November on either Monday or Tuesday evening. A notice will be sent out next fall. If you will be at the meeting or if you live in the San Francisco area, please stop in for this informal open house. Many of our faculty will be there.

Finally, I must close on a very sad note. I am sorry to report that Aldrich Syverson, Emeritus Professor and former Chair, died on September 18, 1988, after a long illness. Sy is survived by his wife, Eleanor, his daughter and son-in-law, Elizabeth and T.K. Gilliam, his son and daughter-in-law, Dr. William and Christine Syverson, and four grandchildren. A committee has been formed to establish and raise funds for an Aldrich Syverson Scholarship Fund. Contributions to this fund can be sent to the Department.

Sincerely,

Jack Zakin

P.S. We want to keep our alumni records as current as we can. If you have a new job, have been promoted, or received an award or other recognition, please drop me a note so we can update our files.
## 1988 Contributors

<table>
<thead>
<tr>
<th>Year</th>
<th>Contributors</th>
</tr>
</thead>
</table>
| 1921 | Harold W. Baque  
      | George J. Wrasman |
| 1922 | Dr. Robert F. Heald |
| 1923 | Gordon H. Mutersbaugh  
      | Edward D. Turnbull |
| 1924 | Clifford F. Landin |
| 1926 | Chester G. Landes |
| 1927 | James L. Collins |
| 1929 | Julius L. Hoelscher |
| 1930 | Parker S. Dunn  
      | Marion M. McAdams |
| 1931 | Harold W. Almen  
      | Paul F. Ulmer |
| 1932 | Dr. Harry J. Green, Jr.  
      | Cyril R. Porthouse  
      | Hyman H. Weinberg |
| 1933 | John S. Eckert  
      | Benjamin Finer  
      | George E. Fromm |
| 1934 | Clarence N. Fisher  
      | Otis D. Graff  
      | Owen G. Howard  
      | William J. Lawless, Jr.  
      | William D. Martin, Sr.  
      | Edward E. Slowter |
| 1935 | Albert R. Morrison  
      | D. Ellis Neunherz  
      | Dr. Linton E. Simerl  
      | Frederick L. Thomas |
| 1936 | Charles E. Green  
      | Richard A. Miller  
      | William A. Taylor  
      | William P. Ward |
| 1937 | John B. Armstrong  
      | Andrew E. Chute  
      | Nicholas Fatica  
      | John D. Graham  
      | Dr. Harvey H. Grice  
      | Dr. Philip B. Kraus  
      | Donald C. Miller  
      | Frederick R. Pullen  
      | Albert F. Shorkey  
      | Robert T. Whitaker |
| 1938 | Howard D. Evans  
      | Edward J. Haven  
      | John S. King  
      | Robert S. Radow |
| 1939 | Robert H. Dewart  
      | John K. Harvey  
      | Ira J. Kail  
      | Dillard W. Kuhlman  
      | Dr. Charles A. Rohrmann  
      | Bernard R. Sarchet |
| 1940 | Clay H. Aneshansley  
      | Charles H. Boardman, III  
      | Dr. Heinz A. Boker  
      | Paul D. Cooper  
      | Paul A. Fodor, Jr.  
      | Robert L. Huffman  
      | William R. Keller  
      | Don E. Kennedy  
      | John H. Miller  
      | Everett H. Strobel  
      | Francis J. Van der Werf  
      | Roger M. Warner |
| 1941 | Dr. James R. Cameron  
      | Charles A. Keller  
      | Myron B. Kratzer  
      | George L. Meyers, Jr.  
      | David Thomas  
      | H. Richard Unkel  
      | J. Albert Zier |
| 1942 | Dr. Donald S. Arnold  
      | Randal E. Bailey  
      | Dale B. Baker  
      | Edmund Duplaga  
      | Dr. Forrest R. Hurley  
      | Clyde H. Kearns, Jr.  
      | Lynn S. Kelley, Jr.  
      | G. John Lambillotte  
      | Richard R. Whiston |
| 1943 | Nicolae N. Bacaintan  
      | Robert L. Baldner  
      | Edgar E. Buxton  
      | Halvor S. Christianson  
      | Dalton F. Drake  
      | Carl F. Effler  
      | Glenn L. Gifford  
      | Dr. Myrl E. Miller  
      | Roy E. Schneider  
      | Carlyle E. Shoemaker |
| 1944 | William R. Harris  
      | George H. Montgomery  
      | Grover C. Strickler, Jr. |
| 1946 | Kenneth A. Brandstetter  
      | Charles R. Hall |
| 1947 | William K. Fell  
      | Thurman L. Graves  
      | H. Roe Hawkey, Jr.  
      | John M. Kolbas  
      | Donald G. Schroeter  
      | Aloysius M. Sebian  
      | Col. Carl E. Trexler |
1948
Richard A. Arnold
Charles C. Ballard
Robert L. Bates
John A. Burgbacher
Dr. Richard E. Durst
Walter S. Fagley, Jr.
J. Guilford Gerlach
Earl W. Goodman
Max H. Humphrey
Dr. F. Robert Mayforth
Jack C. Stewart

1949
William D. Arthur
Paul E. Bates
Gordon G. Cross
Edward E. Galloway, Jr.
Dr. John B. Martin
Richard N. Miller
Roland I. Spencer
David F. Stewart

1950
Dr. Walter E. Donham
Lt. Robert E. Duval
David W. Hardesty
Dr. Preston L. Hill
Jewel H. Perkins, Jr.
Richard L. Scott
Earl C. Sumner
Paul L. Wells

1951
Dr. Bruce E. Hill
Robert M. Killian
William L. Norris
Merle H. Ruff
James P. Slattery
Dr. David A. Strang
Clarence J. Svoboda

1952
Medro J. Brodeur, Jr.
James F. Froning
Richard E. Saylor
Charles J. Schmitz
Dr. David G. Stephan

1953
Robert A. Bates
Roger L. Briggs
Wilfred C. Ling
William L. Maag
Harold L. Stelzer, Jr.
James L. Wilson

1954
Dr. Gilbert E. Raines

1955
James G. Fergusson
John H. Hoge
Thomas J. Tibbitts

1956
Paul Alexander, Jr.
Glenn F. Althouse
Robert A. Cody
William D. Coe
James R. Farst
Joseph T. Fisher
Dr. Manoj K. D. Sanghvi

1957
Jon D. Helms
Paul J. Kienholz
Gary L. Truex
Frank W. Vetter

1958
James R. Facer
John R. Kears
Valdis E. Petritis
Richard M. Smith
Harold A. Sorgenti
James W. Stark
Dr. Lawrence R. Steele

1959
Lee W. Addie
James O. Albery
Charles E. Drum
Dr. Ronald M. Kovach
Dr. Gerald A. Wilcox

1960
Virgil L. Anderson
Irwin Weinstock

1961
Paul R. Bigley
Dr. Edward R. Corino
David A. Parker
John N. Rapach
Lawrence E. Woodworth

1962
Charles D. Osbun
J. David Porthouse
Michael D. Winfield

1963
Gary L. Beeler
William C. Corder
Dr. John P. Henry, Jr.
Robert P. Kasper
Fred A. Shaffstall
Wilbur H. Sidner

1964
Dr. Michael B. Cutlip
Alan K. Kochsiek
Mr. Girish D. Parikh

1965
Frederick H. Flor, Jr.
Frederick J. Rerko

1966
Dr. David E. Bidstrup
William F. Deerhake
Erich L. Eggers
Thomas E. Fitz
William G. Lowrie
Glenn L. McKee

1967
F. William Hauschildt, Jr.
Dennis W. Hurley
Wilma D. Jancuk
Dr. Martin R. Okos
Graham F. Painter, Jr.
Anthony Santavicca
John M. Yacher

1968
Richard T. Linak
David L. Lull
John M. Salladay
James W. Sebert
1969
Dr. Kiu H. Lee

1970
George E. Cressman, Jr.
Bradford F. Dunn
David R. Grove
Charles A. Klingensmith
John D. Rensel
Richard B. Strait
Dr. Harry H. Yieh

1971
Dr. Eric A. Gruke
Kerry G. Hertenstein
Dr. Dean H. Reber
Armen Terjevorkian
Dr. Stephen Zakanycz

1972
Dr. Jerome F. Beekman

1973
John A. Douglas
Eric J. Linak
Norman F. Lucas, Jr.
Samuel S. Tam
Dr. Johnny O. Wright

1974
Dr. Kenneth R. Cox
Bruce K. Dawson
Stephen M. Irwin
John E. Myers
Michael A. Patterson
William M. Pekman, M.D.

1975
John T. Erikson
Dr. Yoon S. Song

1976
Robert R. Holbrook
Philip C. Hursh

1978
Dr. Leslie S. Fishler
Michael P. Moore
Elizabeth P. Stuber
Neil P. Stuber
Stephen B. Traicoff
Paul W. Vance, Jr.
Richard J. Yoch

1979
Steven M. Dreher
Charles L. Heskett, Jr.
Wai-Chi Liu
Craig W. Sherban
David J. Wasela
Tad K. Williams

1980
Dr. Frederick T. Clark
Carol Bur Ehrman
Fred D. Ehrman
Matthew J. Galosi
Mark A. George
Dr. Keon Y. Park
Gary R. Prok
Cynthia A. Scheetz
Dr. David G. Vutetakis

1981
John R. Cromb, III
Nancy C. Dawes
Dr. Nancy H. Ingham
Douglas V. Lenz
Pamela J. Simpkins
Harry C. Wolf, Jr.

1982
David B. Boyle
Mike A. Greene
Jeffrey A. Harwood
Dan Lambert
Victoria S. McCauley
Ronald J. Stapleton
Annette H. Taylor
Dr. Andrew M. Weber

1983
Dr. Lamont E. Beaver
Thomas D. Burns
Dr. Li-Kow Chang
Mark D. Dieringer
Harold E. Flinn
David J. Grigger
Dr. Cheryl L. Kennedy
Dr. Dan D. Lindley
Julie A. Minderman
Christopher R. Richied
Ben Weinstein
David L. White

1984
Scott M. Clements
Wendell E. Harkins
Robert H. Kelch
Gregory M. Masica
Terry M. McGinnis
Scott R. Northrup
Daniel M. Waits
Paul D. Woosley

1985
Rebecca K. Bur
Dr. Pong C. Chung
Roger G. Facer
Timothy A. Johnson
Michael F. Li Cause
David J. Moonay
Sharyn A. Veley

1986
Timothy M. Allen
Kathleen Mary Murphy
Raymond M. Yuurick

1987
Dr. Samuel D. Fink
Karen G. Johnson
Charles E. Malspeis
Timothy A. Rash
Melinda Kay Thompson
Friends

Dr. Robert S. Brodkey
Joseph A. Catalano
Mrs. Brian Davenport
Dr. James F. Davis
LtC. Russell F. Dubes
Allan G. Kraw, D.D.S.
Dr. Won-Kyoo Lee
Carroll Cook Lilly
Dr. Umit Ozkan

Allan H. Pekar
Charles F. Porter
James C. Rainwater
John W. Straker
Dr. Thomas L. Sweeney
Eleanor M. Syverson
Dr. Shang-Tian Yang
Dr. Jacques L. Zakin

Industrial Contributors

AICHE - STUDENT CHAPTER
ALCOA FOUNDATION
AMAX FOUNDATION
AMOCO FOUNDATION INC.
ASHLAND CHEMICAL COMPANY
DOW CHEMICAL COMPANY FOUNDATION
DOW CORNING CORPORATION
E.I. DU PONT DE NEMOURS & CO.
EXXON EDUCATION FOUNDATION

GENERAL MOTORS FOUNDATION
KONICA CORPORATION
LUBRIZOL FOUNDATION
PPG INDUSTRIES
PROCTER & GAMBLE FUND
ROHM & HAAS COMPANY
SHELL COMPANY FOUNDATION
UNION CARBIDE CORPORATION

'23 Edgar C. Hendrickson, '23 Durain C. Butts
'22 Web Kay
Staff Members

Professors
R.S. Brodkey
M.H. Friedman (Biomed Eng.)
C.J. Geankoplis (Emer.)
E.R. Haering
H.C. Hershey
W.B. Kay (Emer.)
R.E. Lynn (Emer.)
D.R. Skidmore
H.C. Slider (Emer.)
E.E. Smith (Emer.)
T.L. Sweeney
J.L. Zakin

Assoc. Professors
K.S. Knaebel
L.J. Lee
W.K. Lee
K. Svanks (Emer.)

Asst. Professors
J.R. Chalmers
J.F. Davis
U.S. Ozkan
S.T. Yang

Adjunct Professor
J.A. Brothers
C. Scaccia

Visiting Professors
Y.M. Chen (R.O.C.)
I. Fort (Czechoslovakia)
J. Guzman (Mexico)
T.T. Hu (P.R.C.)
R. Leyva-Ramos (Mexico)
H. Moritomi (Japan)
Z-Q Yu (P.R.C.)

Visiting Research Scholar
P. Cai
M.M. Hamza
O. Jiang
P.-J. Jiang
F. Li
I. Miyagawa
R. Wei
L. Zhang

Administrative Associate
J.F. Teeple (Retired)

Secretaries
K. Carney
*S. McDonald
S. Newsom
P. Osborn (Retired)

Design Engineer
M.B. Kukla

Instrument Maker
R.R. Renshaw

Teaching Associates
D. Arters
Y. Bae
Y. Cai
H. Chang
C. Cheng
M. Dayal
W. Dorman
L. Economikos
S. Goldblum
M. Guo
S.T. Hsu
S. Jagannadh (Math)
S. Karmaker
Y. Li
J. Marchio
J. McDowell (Eng. Gr.)
E. Moctezuma
M. Murphy
W. Oren
A. Ozkan

Teaching Associates (Cont)
T. Ramesh (Eng. Gr.)
L. Sanchez
H. Shin
C.H. Shu
V. Tirumalai

Administrative Associates
K. Driscoll (UVC)
D. Littlefield (Coll. Eng.)
S. Senger (Pre-Ch.E. Adv.)

Research Associates
L. Ben-Said
C. Cheng
L.-C. Chou
J.D. Fan
M. Gandikota
S. Haam
C. Hsiao
C.P. Hsu
C. Jang
M. Kinkelaar
B. Kreischer
C. Linn
J. Lyau
M. Matz
E. Moctezuma
J. Molnar
J. Qi
T.S. Ramesh
K. Russ
S.K. Shum
G.H. Song
L. Trevino
J.W. Tseng
K.J. Wang
R. Whiteley

McRi Trainee
F. Bavarian
B. Smith
W.T. Tang

GPOP Fellow
R. Figueroa
Fellowships

Amoco
  D. Arters
  D. Myers

Atlantic Foundation
  J. Silva

Class of Champions
  M. Perry

Dow Chemical
  H. Zingher

DuPont
  R. Hill
  D. Myers
  M. Perry
  D. Rollins

Engineering Research Center
  R. Hill

Exxon
  M. Smith

Arno C. Fieldner
  R. Gorowara

GEM
  J. Collins

Idemitsu Kozau
  K. Inokuchi

Koffolt
  S. Damani
  M. Matz
  S. Senger
  R. Shields
  M. Smith

National Science Fdn
  D. Myers

Procter & Gamble
  D. Bogoevski

Presidential Fellowship
  H. Chang
  R. Jean

Fellowships (Cont)

Roberts
  P. Murray

Shell
  R. Kuellar
  R. Shields

Sohio
  C. Shoemaker

UNOCAL
  B. Saadevandi

Union Carbide
  C. Tritt

University Fellowships

J. Collins
S. Damani
A. Maldonado
M. Perry
B. Smith
L. Trevino
R. Whiteley

U.S. Air Force
  B. Wilkerson

Scholarships

Alcoa
  J. Sawyer

Harold Almen
  J. Foulk
  T. Shell

Ashland
  C.J. Caudell
  J. Craig
  P. Peck

Chemical Eng. Freshmen
  J. Austin
  M. Coppell
  C. Connors
  T. Cuthbert
  K. Eckardt

Scholarships (Cont)

Chemical Eng. Freshmen (cont)
  J. Grafton
  B. Heidman
  M. Johnston
  L. Larue
  L. Mangen
  K. Mannin
  M. Schramm
  G. Ward
  C. Winenger

Engr. Exp. Station
  J.J. Hustey
  K. Maljakian
  R. Mullins
  S. Sech

Dorothy & Herbert Fenburr
  S. Cain
  M. Mendicino
  J. Schneider

Allan I. Gordon
  J. Dangaran
  K. Eftimoff
  M. Formica
  J. Schwierking

Raymond D. Hammand
  S. Joehlin
  T. Pajk
  J. Vandermeer
  R. Wolterman

John H. Hoge
  C. Anderson
  J. Ryan

Webster B. Kay
  L. Adams
  W. Roetzer

Kodak
  L. Broadbelt
  C. Hrenya
  J. Vinson
  S. Williams
Scholarships (Cont)

Lubrizol
L. Hause
S. Phillips

NSF Minority Scholarship
C. Ellis
T. Greathouse

Whirl
M. Rappa

Withrow
L. Fletcher
B. Furlong
W. Irvin

Class of 1968
John M. Salladay, Raymond A. Foisset
James W. Sebert and John M. Yacher

Barry C. Hartley, Class of 1958
demonstrating "The Inspection Hat"
Class of 1988

ROW 1  Jim Teeple, Paula Fulk, Amy Schmitt, Julia Courts, Mary Alison Grady, Annette Brough, Dr. L.S. Fan.

ROW 2  David Bartolec, John (Was) Oren, Susan Hanusz, Cathy Finafrock, Kimberly Oney, Dr. Umit Ozkan.

ROW 3  David Boerner, Brian Costa, Dr. S.T. Yang, David Miller, Todd Pencarinha, Dianne Monnin.

ROW 4  Bill Irvin, Jonathan Calderas, Stuart Doty, Christopher Holbrook, Shirley Newsom, Dr. Harry Hershey, Keith Russ.

ROW 5  Mark Kinkelaar, David Parker, Dimitar (Jim) Nastoff, Dimitrios Slioupkidis, Dr. Jeff Chalmers.

ROW 6  Mike Morgan, Ron Hill, Eric Delligatti, Dr. W.K. Lee, Steven Lang, Dr. Jacques Zakin, Wen-Tzung Tang.

ROW 7  Dr. Jim Davis, Rogelio Figueroa, Marshall Vandewalle, John Bohlmann, Laertis Economkos, Professor "Slip" Slider, Ronald Villanueva, Mohammed Alhindal, Bruce Kreischer.

ROW 8  Mike Kukla, Talivaldis Berzins, Dr. Duane Skidmore, Rajeev Gorowara, Dr. Kent Knaebel, Craig Shoemaker, David Arters.
Placement of Chemical Engineering Graduates

June 1988

Master of Science

R. Figueroa, Procter & Gamble, Cincinnati, OH
J.W. Oren, DuPont, Belle Chasse, LA
K.M. Russ, Graduate Student, OSU
B. Saadevand, Mobay Chemical Corp., New Martinsville, WV

Bachelor of Science

T.V. Berzins, Graduate School, LSU, LA
D.A. Boerner, Dow Chemical, Freeport, TX
J.A. Bohlmann, Cargill, Eddyville, IA
A.L. Brough, DuPont, Belle Chasse, LA
J.J. Calderas, Procter & Gamble, Cincinnati, OH
J.M. Courts, Procter and Gamble, Cincinnati, OH
D.E. Davis, Dow Chemical, Hanging Rock, OH
E.S. Delligatti, General Electric, Coshocton, OH
C.A. Finafock, Exxon Chemicals, Baytown, TX
J.A. Franz, Amoco Production, New Orleans, LA
P.R. Fulk, DuPont, Belle Chasse, LA
M.A. Grady, DuPont, Beaumont, TX
M.R. Kinkelaar, Graduate School, OSU
S.R. Lang, Unknown
D.W. Miller, Central Soya, Bellevue, OH
D.M. Monnin, Ashland Chemical, Dublin, OH
H.M. Oesch, Occidental Chemical, Berwyn, PA
K.L. Oney, Rohm & Haas, Philadelphia, PA
D.J. Parker, Technica, Columbus, OH
T.K. Pencarilha, Exxon Chemical, Baytown, TX
A.E. Schmitt, PPG, Crystal Lake, IL
M.L. VanDeWalle, Eastman Kodak Co., Rochester, NY
S.T. Woodian, Medical School, OSU

September 1988

Doctor of Philosophy

L. Economikos, IBM, East Fishkill, NY
H.-S. Shin, Post Doctorate, University of Connecticut, Storrs, CT

Master of Science

L. Ben-Said, Graduate School, Case Western, Cleveland, OH
M.R. Brown, Graduate School, OSU
C. Cheng, Graduate School, OSU
R.L. Gorowara, DuPont, Edge Moor, DE
M.-N. Guo, Graduate School, Purdue Univ., IN
September 1988 (Cont.)

Master of Science

R.R. Hill, Jr., Graduate School, OSU
D.J. Littlefield, DuPont, Parkersburg, WV
J.A. Molnar, Jr., Edison Weld. Inst., Columbus, OH
P. Murray, Graduate School, MIT, MA
C.-H. Shu, Graduate School, OSU
B.C. Smith, Graduate School, OSU
H.-C. Wen, Unknown

Bachelor of Science

M.S. Alhindal, Kuwait Oil Co., Kuwait
B.C. Costa, Bailey Controls, Wickliffe, OH
J.F. Ennis, American Electric Power, Columbus, OH
M.T. Karasdsheh, Shell, Italy
M.F. Morgan, B.F. Goodrich, Avon Lake, OH
D.B. Nastoff, Shell, Baton Rouge, LA
B. Patel, Eveready Battery, Ashboro, NC

December 1988

Doctor of Philosophy

T.-W. D. Chan, Exxon Chemical, Linden, NJ
J.-D. Fan, Certainteed Corp., Wichita Falls, TX
R. Jean, Post Doc, OSU
J. Qi, Post Doc, Cast Western, Cleveland, OH
C.L. Shoemaker, B.F. Goodrich, Avon Lake, OH
W.-T. Tang, Shell Development, Houston, TX

Master of Science

M.S. Gandikota, Graduate School, OSU
A.T. Ozkan, Bailey Controls Co., Wickliffe, OH

Bachelor of Science

S.N. Hanusz, Frito Lay, Phoenix, AZ
C.A. Holbrook, Occidental Chemical, Buffalo, NY
W.M. Irvin IV, INEL, Idaho Falls, ID
M.J. Nodianos, Unknown
T.E. Reardon, Unknown
M.R. Reed, Unknown
March 1989

**Doctor of Philosophy**

D.C. Arters, Amoco Research Ctr., Naperville, IL  
S.V. Jagannadh, Battelle Memorial, Columbus, OH  
B.E. Kreischer, Phillips 66, Bartlesville, OK  
G.-H. Song, Post Doc, OSU  
K.J. Wang, Post Doc, OSU

**Master of Science**

S.A. Senger, Graduate School, OSU

**Bachelor of Science**

D.J. Bartolac, Occidental Chemical, Niagara Falls, NY  
S.F. Doty, Sundstrand, Rockford, IL  
M.A. Formica, Unknown  
M.R. Young, Unknown

**BACHELOR OF SCIENCE**  
Average Salary $31,716

**MASTER OF SCIENCE**  
Average Salary $33,780

**DOCTOR OF PHILOSOPHY**  
Average Salary $47,000

Fred A. Shaffstall  
Class of 1963  

Eugene Wheeler Distinguished Alumnus  
Class of 1965
Cathy Finafrock receiving
The American Institute of Chemists Award
Presented by Dr. Umit Ozkan

Jill Courts receiving
The AIChE Outstanding Senior Award
Presented by Lawrence R. Latta

Linda Broadbelt receiving
The AIChE Outstanding Junior Award
Presented by Lawrence R. Latta

Linda Broadbelt receiving
The AIChE Outstanding Sophomore Award
Presented by Dr. Harry Hershey
Linda Broadbelt receiving
The Dow Outstanding Junior Award
Presented by John Salladay

Robert F. Gaus, Jr.
Class of 1983

The Class of 1943
Leonard Skolnik, Alexis W. Lemmon, Richard E. Loftfield,
Harold J. Pierce, Jr., William J. Verross, Gleen L. Gifford,
Edgar E. Buxton, Gerald V. Wootton, Paul K. Gaulke, Bryce D. Inman

Better known as Dr. Koffolt's "Jewels" (aka) The Bad Boys
Distinguished Alumnus
Eugene N. Wheeler

Eugene M. Wheeler is Vice President for Clorox Company, San Ramon, California. He received the Bachelor of Science degree in Chemical Engineering from Ohio State University in 1965 and the Master of Science degree in Chemical Engineering from Ohio State in the same year under the combined program.

From 1965 to 1968 Mr. Wheeler worked for Procter & Gamble as Process Development Engineer. In 1968 he joined the Basic Vegetable Products Company and became Senior Process Engineer. He joined the Clorox Company in 1973 to take the position of Food Product Development Manager. Two years later he was promoted to Household Products Development Manager, Chemical Specialties. In 1977 he became the Product Development Director before assuming his current post of Product Research and Development Vice President in 1981.

As Research and Development Vice President, Mr. Wheeler has guided the successful development and commercialization of new household cleaning, laundry, food and coatings products which have doubled in sales volume during his tenure. He also established a multidisciplinary project team environment which has streamlined the development process from concept to commercialization.

Mr. Wheeler is a member of a variety of professional societies including the American Institute of Chemical Engineers, the Industrial Research Institute, the Soap and Detergent Association and the Chemical Specialities Manufacturers Association.

Still involved with Ohio State affairs, he serves on the West Coast Advisory Committee for the College of Engineering. Youth sports coach for over a decade, he has also been a leader for United Way at the Clorox Technical Center since 1973 and recently was named to the Board of Directors of the Alameda County American Cancer Society.
Professor Mort Friedman joined the faculty of Biomedical Engineering as Associate Director in July. Mort's office and labs are in Mount Hall on West Campus.

Emeritus Professor Christie Geankoplis continues to teach part-time at the University of Minnesota and to consult. Christie is heavily involved in their unit operations laboratory course. He joined us at the reception for alumni and friends at the AIChE Annual Meeting in Washington in November.

Professor Ed Haering continues to keep the students busy in the summer Unit Ops Lab. He has been active in service activities in the Department (Chair, Program Review Committee) and the University (President of the Faculty Club, Search Committee for Director of Ohio Unions Faculty, Compensation and Benefits Committee, Creative Activities Program Advisory Committee and Alternate Faculty Senate Member).

Professor Harry Hershey continues to advise the very active student chapter. Harry played the leading role in developing the new PC Lab in the Department. The Brodkey-Hershey text, Transport Phenomena: A Unified Approach, has been adopted by a number of chemical and mechanical engineering departments. This year he is collaborating in thermodynamic research with Visiting Professor Jorge Guzman, Ph.D. '73, from the Universidad de Puebla, Mexico.

Emeritus Professor Web Kay has been modifying some of the equipment in the thermodynamics laboratory and providing assistance to Professor Guzman.

Professor Kent Knaebel is receiving industrial support for his research on temperature swing adsorption and pressure swing adsorption from Amoco Oil, Union Carbide, Dow and also from NSF. U.S. Patent No. 4,748,803, Complementary Pressure Swing Adsorption, was issued to Kent last year. He is a member of the AIChE Adsorption and Ion Exchange Program Committee, the Separation Science and Technology sub-Division of the Industrial and Engineering Chemistry Division of ACS and is Newsletter Editor and Chair of the American Association for Adsorption and Ion Exchange. Kent served on a Wright Patterson Air Force Base Research Review Panel in October. He also organized and taught part of the PE Review Course given at Ohio State.

Professor Jim Lee received one of the four College of Engineering Senior Research Awards last spring. He has been very active in the College of Engineering NSF Engineering Research Center on Net Shape Manufacturing, both administratively as Coordinator of the Polymer Thrust Area and as the leading researcher in the polymer area. His research is also supported by GenCorp, Union Carbide, Owens Corning Fiberglas, General Motors, Ashland Chemical, NSF, and the Air Force. Jim is chair-Elect of the Technical Program Committee of the Engineering Properties and Structures Division of the Society of Plastics Engineers and he chaired a session at the SPE ANTEC Meeting in Atlanta last April. A paper by Jim and John Molnar, one of his M.S., students received the best polymer processing paper award and the best overall paper award at the 1988 Annual Conference of the SPI Composites.
Institute. He is Co-PI with Jack Zakin of an equipment grant for a dynamic
light scattering device which also included Professor S.T. Yang and Sylvan
Frank (Pharmacy). He is a member of the Department Program Review
Committee.

Professor Won Kyoo Lee was promoted to Associate Professor in October.
Won Kyoo Organized and chaired a Session on Advances in Control of
Biotechnical Processes at the American Control Conference in Atlanta last
June.

Emeritus Professor R. Emerson (Emy) Lynn visited us last summer. Emy
and his wife travel quite a bit. They are serious square dancers and also
attend Elder Hostels.

Professor Umit Ozkan organized and chaired a Session on Fundamentals of
Heat and Mass Transfer in Multi-Phase Systems at the AIChE Annual Meeting in
Washington. Her research is supported by Amoco Foundation, the Petroleum
Research Fund and by an Amoco Foundation Faculty Development Award. She
chairs the AIChE Central Ohio Section Professional Development and Career
Guidance Committee and is a member of the Department Program Review
Committee.

Professor Duane Skidmore is continuing his coal research. He chairs
the Department's Graduate Studies Committee.

Emeritus Professor Slip Slider will again be teaching two courses in
petroleum reservoir engineering during Spring Quarter. In addition, Slip
gave five short courses last year, for Texaco in Midland, Texas, for the Roy
F. Huffington Company in Jakarta, Indonesia, for Sun Oil in Houston and open
courses in Houston and Denver. He is a member of the Research Committee of
the Interstate Oil Compact Commission.

Emeritus Professor Ed Smith is continuing his "part-time" work on fire
testing. He serves on the National Fire Protection Association Committee on
the Toxicity of the Products of Combustion, ASTM Committee .05 on Fire
Standards and the Editorial Advisory Board of the Journal of Fire Sciences.

Emeritus Professor Karlis Svanks and his wife have done quite a bit of
travelling in the past year.

Professor Tom Sweeney continues to serve as Associate Vice President
for Research and Graduate Studies and as Executive Director of The Ohio
State Research Foundation. Tom also serves on the State of Ohio Hazardous
Waste Facility Board.

Professor S.T. Yang continues to develop his biochemical engineering
research program. He chaired a session of the Microbial and Biochemical
Technical Division of the ACS Meeting in Los Angeles in September.
Professor Jack Zakin was appointed to the Executive Committee of the Council for Chemical Research for 1988-89. He was Co-Organizer and Co-Chair of the Eleventh Biennial Turbulence Symposium held at the University of Missouri-Rolla in October and chaired a session. He is on the Organizing Committee of the Sixth Beer Sheva Symposium on MHD Flows and Turbulence to be held in Jerusalem in 1990 and is a member of the Scientific Committee of Drag Reduction '89, a symposium to be held in Davos, Switzerland this coming summer. In October he co-chaired a panel and was an invited speaker on The Future of Chemical Engineering Education at the IV PACHEC Congress in Acapulco. He also served as an ABET/AIChe Accreditation Visitor last fall. Jack's research on surfactant drag reduction for district heating and district cooling systems is supported by the Department of Energy and the International Energy Association.
Publications and Presentations

BOOKS:


REFEREED PAPERS:


Kitano, K. and L.S. Fan, "Near Wake Structure of a Single Bubble in a Two-

Magiliotou, M. and L.S. Fan, "Bed-Immersed Object Heat Transfer in a Three
Phase Fluidized Bed Under High Gas Holdup Conditions," AIChE J., 34, 1043-
1047 (1988).

Tsuchiya, K. and L.S. Fan, "Prediction of the Wake Size of a Single Gas

Chen, Y.M. and L.S. Fan, "Vertical Plug Flows of Gas-Solid Transport in

Knaebel, K.S. and M.J. Matz, "Pressure Swing Adsorption: Effects of

Knaebel, K.S. and H.-S. Shin, "Pressure Swing Adsorption: An Experimental

Knaebel, K.S. and J.C. Kayser, "Integrated Steps in Pressue Swing Adsorption

B. Yang and L.J. Lee, "Process Control of Profile Extrusion Using Thermal

B. Yang and L.J. Lee, "Process Control of Profile Extrusion Using Thermal

Y.S. Yang, and L.J. Lee, "Comparison of Thermal and Infrared Spectroscopic
Analyses in the Formation of Polyurethane, Unsaturated Polyester and Their


Kiaee, L., Y.S. Yang and L.J. Lee, "Effect of Low Profile Additives on the
Morphology and Curing of Unsaturated Polyester Resins," AIChE Symposium,

Hsu, T.J. and L.J. Lee, "Reaction Injection Molding of Polyureas, I.

Lee, Y.M. and L.J. Lee, "Interaction of Mixing, Diffusion and Kinetics of
(1988).


PROCEEDINGS PUBLICATIONS:


**INVITED LECTURES, SEMINARS AND SHORT COURSES**


OTHER PRESENTATIONS


Theses

Ph.D. Theses

Arters, David C., B.S. (University of Cincinnati); M.S. (Ohio State University); "Solid-Liquid Mass Transfer in Multiphase Fluidized Beds," (Advisor: L. Fan).

Chan, Tai-Wai David, B.S. (International Christian University); M.S. (Ohio State University); "Analysis of Molecular Orientation and Internal Stresses in Plastic Sheet Extrusion Process," (Advisor: J. Lee).
Ph.D. Theses (Con't)

Economikos, Laertis, B.S. (University of Thessaloniki); M.S. (Ohio State University); "Image Processing and Analysis of Colored Particle Motions in Turbulent Flow," (Advisor: J. Zakin).

Fan, Jyh-Dar, B.S. (National Taiwan University); M.S. (Ohio State University); "Process Analysis of Sheet Molding Compound in Molds With or Without Substructures," (Advisor: J. Lee).

Jean, Rong-Her, B.S. (Tsing-Hua University); M.S. (Ohio State University); "Hydrodynamics and Gas-Liquid Mass Transfer in Liquid-Solid and Gas-Liquid-Solid Fluidized Beds," (Advisor: L. Fan).

Kreischer, Bruce E., B.S. (University of Cincinnati); M.S. (Iowa State University); "Bubble and Bubble Wake Characteristics in a Gas-Liquid-Solid Fluidized Bed," (Advisor: L. Fan).

Qi, Jian, B.S. (Qinghua University); M.S. (Ohio State University); "Multicomponent Ionic Equilibrium and Mass Transfer Dissolution of Sparingly Soluble Fluorspar Mineral." (Advisor: K. Knaebel).

Shin, Heung-Soo, B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); "Pressure Swing Adsorption: A Study of Diffusion-Induced Separations," (Advisor: K. Knaebel).

Shoemaker, Craig L., B.S. (Ohio University); M.S. (Ohio University); "Image Analysis of the Orientation of Colored Fibers in Paper Flocs," (Advisor: R. Brodkey).

Song, Gung-Ho, B.S. (Seoul National University); M.S. (Ohio State University); "Hydrodynamics and Interracial Gas-Liquid Mass Transfer of Gas-Liquid-Solid Fluidized Beds," (Advisor: L. Fan).

Tang, Wen-Tzung, B.S. (National Chung-Hsing University); M.S. (Ohio State University); "Hydrodynamics, Mixing, Gas-Liquid Mass Transfer and Biological Applications of a Three-Phase Fluidized Bed of Low Density Particles," (Advisor: L. Fan).

Master's Theses

Ben-Said, Lofti, B.S. (Iowa State University); "Non Ionic Surfactant Effects On Cell Attachment and on Microbial Desulfurization Rates of Three Ohio Coals " (Advisor: D. Skidmore).


Cheng, Ching-yuan, B.S. (Tunghai University); "Heat Transfer Effect On Polymer Flow In Confined Channels," (Advisor: J. Lee).
Master's Theses (Con't)


Gandikota, Murthy S., B.S. (Indian Institute of Technology); "Expert Systems For Selection Problem-Solving Using Classification And Critiquing," (Advisor: J. Davis).

Gorowara, Rajeev L., B.S. (Ohio State University); "Effect of Surfactants on Three-Phase Fluidized Bed Hydrodynamics," (Advisor: L. Fan).


Littlefield, Daniel J., B.S. (Ohio State University); "Development of a Process Control Software System for Undergraduate Education and Graduate Research," (Advisor: J. Davis).

Molnar, John A., B.S. (Youngstown State University); "A Mixing And Mold Filling Study In Reaction Injection Molding," (Advisor: J. Lee).


Oren, John W., B.S. (New Mexico State University); "Design and Implementation of Computer Data Acquisition and Process Control Laboratory Experiments," (Advisor: J. Davis).


Russ, Keith M., B.S. (Ohio University); "Particle Color Considerations in Flow System Image Acquisition," (Advisor: R. Brodkey).

Saadevandi, Bram, B.S. (University of Tulsa); "A Study of Silicone Oil-In-Water Emulsions," (Advisor: J. Zakin).

Shu, Chin-Hang, B.S. (Tunghai University); "Effects of Temperature on Gum Qualities and Xanthan Production by Xanthomonas campestris NRRL B-1459," (Advisor: S. Yang).
Master's Theses (Cont'd)

Smith, Bryan C., B.S. (Clarkson University); "The Effects of Temperature and Solids Loadings on Oxygen Transfer and Gas Holdup in an Airlift Reactor," (Advisor: D. Skidmore).

Larry Jarrett, Class of 1968

Donald E. Findlay
Class of 1953

Victor A. Crainich and Barry C. Hartley
Class of 1958

John A. Douglas and Samuel S.J. Tam
Class of 1973
### Anniversary Classes

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Edward E. Galloway
Raymond W. Garris
Raymond D. Hammond
Thomas A. Haveryfield
*Allen C. Heidenreich
Richard P. Heintz
Maurice R. Hetler
Bruce E. Hill
William H. Hoge
Wilbur C. Hoover
*Huan Yun Hsung
Walter D. Hunter
James F. Irwin
Theodore M. Jenney
Robert A. Jones
Emerson M. Jones, Jr.
William G. Jurevic
J. Howard Kerstetter, Jr.
William K. Kinzer
William G. Knapp
Rudolph Knaus
Rodney J. Koenig
Robert E. Kraus
Rine Kruger, Jr.
Richard H. Lepley
George R. Lewis
Ting Hung Ling
Robert S. Long
Frederick A. MacDougall
John B. Martin
Herbert C. McKee
Bryce H. McMullen
*Jack R. Metcalf
Richard N. Miller
Basil H. Minnich
Ralph I. Mitchell
John D. Mueller
*Stanley S. Y. Pai
Chi Ti Pan
Dean B. Plotts
Morton Pollack
Theodore A. Rado
Roy E. Retzke
Samuel A. Riccardi
Donald R. Roberts
John D. Rogers, Jr.
Aaron Rose
John P. Rosser
Glen D. Schaaf

1949 (cont)
R. Ted Scharenberg
Edgar A. Shawd
Charles R. Shepherd
Robert M. Shuster
Edwin E. Smith
Roland I. Spencer
Howard R. Steele
David F. Stewart
Ralph F. Strigle, Jr.
Aaron J. Supowitz
John W. Thompson
Ohn Tin
Augustus R. VanKleeck
*John M. Wallin
Francis A. Warren
George H. Whipple
Edward W. Wiederhold
Howard G. Wittmer
*Pei-Sin Yu
Charles E. Ziants

1954
Saul Barron
Richard L. Boggs
Norval P. Davis
Richard E. Dudley
*Paul M. Engle
Dennis D. Foley
David H. Gartner
Bruce Giles
Richard E. Harrington
Rolland E. Johnson
Ralph L. Justice
Ivan Kenis
William J. Kazel
William R. Lancaster
John O. Lott
Jack L. Mahaffey
Frank J. Maslyk
Peter A. Minderman
*L. Gilbert Moody
Robert H. Nimitz
Gilbert E. Raines
John W. Roberts, Jr.
James E. Sherrard
Theodore R. Smith
William H. Sprout
Charles C. Thacker, Jr.
Abdul R. Uthman

1954 (cont)
Augustus R. VanKleeck
Floyd A. Veley
Douglas Weir
Robert B. Weiser
James A. Yerina

1959
Lee W. Addie
James O. Albergy
Thomas M. Bates
Cesar B. Bautista
Sanford G. Bloom
*Eugene M. Bond
Charles H. Brown
Sun W. Chun
Ronald E. Davis
Thomas O. Dobbs
Charles E. Drum
Dean W. Fisher
John C. Floyd
Julius Foris, Jr.
James R. Godwin
Robert L. Halsey
Richard L. Hempy
Frederic E. Hoffmanns
Melvin E. Hoover
Lloyd G. Jones
Lawrence W. Jordan, Jr.
Ronald M. Kovach
John P. Kuhn
James W. Lacksonen
James H. Laughlin
Glenn F. Leverett
Arthur W. Liles
Roland G. Lindsey
James E. Long
David P. Macarous
Brian L. Nyquist
*Chikatsu Okagawa
William S. Palmer
John T. Priddy
Edward R. Purves
*Ora L. Reedy
Prabhakar K. Sanghani
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Francis E. Smith
Shashikant K. Sonawala
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1974

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1984 (cont)
Jonathan W. Pressler
Patrick A. Renner
Peter T. Rigano
Mohammad R. Sadeghi
Stephen D. Salsbury
Sunil Satija
Marvin E. Schott
Cathy C. Scopel
Tyrone A. Scopel
Richard J. Seballos
Christopher B. Shols
Alek T. Siitam
Gregory J. Skufca
Thomas W. Smith
Kathleen A. Stefanik
Michael W. Stevens
Scott D. Stiving
Paul B. Super
Eric A. Swank
*Randall L. Swindler
*Michael J. Wadzinski
Daniel M. Waits
George R. Walters
Veda D. Welch
David K. Wetzel
Timothy A. Whiteman
Donald P. Whiting
Douglas L. Wilburn
Leonore C. Witchey-Lakshman
Paul D. Wooley
Kuang-Tsai Wu
Bing Yang
John G. Zambory
John D. Zeleznik

Class of 1978
Dale W. Folsom, Neil P. Stuber,
Elizabeth P. Stuber and Stephen B. Traicoff

'43 Richard E. Loftfield, '43 Theodore F. Kuntz
and '48 Jeanne H. Johnson

Dr. Harry Hershey, Neil Stuber '78
and Elizabeth Stuber '78

*No current information available. If you know their address, please send it to us.