Message from the Chair
Dr. Stuart L. Cooper

Dear Alumni:

As the new incoming Chair of the Department of Chemical and Biomolecular Engineering I am pleased to provide my initial impressions of the department and a brief overview of what took place in 2003. Since it appears we are a little behind in our reporting to you, the emphasis in the rest of this newsletter will be on what transpired last year. Overall it was a very good year.

First of all I cannot say enough about how well the department was managed during last year as well as throughout the 9 year chairmanship of L. S. Fan. He deserves accolades for the continuing transformation of the department. From a markedly improved research intensity to attending to curricula evolution the department has been in good hands. Whether it is from other department chairs in the College and elsewhere to the Dean and other administrators on our campus, I have only heard favorable comments about L. S. and his contributions on behalf of our department. He was able to put the priorities of the department on the campus agenda always in a positive and forthright manner. Some of the more significant items included planning for the renovation and expansion of Koffolt laboratories, changing our name from Chemical Engineering to Chemical and Biomolecular Engineering and arranging so that we have significant opportunities to recruit new faculty through proposals which have won us campus Academic Enrichment positions and a much valued Ohio Eminent Scholar position. Of course other faculty have helped with these initiatives, but L. S. provided the leadership.

My other observations about the department are also very positive. We have good numbers of highly talented and well motivated undergraduates and graduate students, and a support staff which serves both the students and faculty well. The faculty are all productive in both teaching and research and the statistics of the department are amazing considering that we are a relatively small department. My arrival brings the faculty number to 14. This faculty graduates numbers of undergraduates and PhD’s characteristic of much larger departments. Our undergraduates are among the strongest of the College and our amount of sponsored research is very creditable. Despite our very high research intensity, I am impressed with the regard our faculty place on teaching and in helping to involve our undergraduates in research. We also have two of our faculty who have been elected to the National Academy of Engineering (L. S. Fan and Winston Hlo), an outstanding recognition of their professional excellence.

Getting back to 2003, the Department is still basking in the afterglow of our exciting Centennial Celebration April 24-25. The proceedings, containing four papers on Unsolved Problems in Chemical Engineering” by Professors Howard Brenner, Michael Shuler, Arthur Westerberg and Matthew Tirrell and “When Chemical Reactors Were Admitted and Earlier Roots of Chemical Engineering” by Professor
L.E. (Skip) Scriven, are now ready for printing. Anyone interested in receiving a copy, please contact Sherry Stoneman at stoneman.3@osu.edu or at 614/292-7907. The actual presentations will soon be available for view on the web (check our home page www.che.eng.ohio-state.edu for the link).

A second publication on the history of the Department is still a work in progress. Geoff Hulse continues to find new material in the archives which he is fleshing out to personalize our history. Completing the job will take a lot more work, but he has devoted and will devote a lot of time and energy to it.

In 2003 we hired Associate Professor Barbara Wyslouzil and two excellent staff persons, Angela Jones as Graduate Coordinator and Mary Lamont as Academic Advisor, and the process to change our name to Chemical and Biomolecular Engineering was begun. Our name change became official recently with much more detail about this appearing on our web page: http://www.chem.eng.ohio-state.edu/

We also hired John Corn, who was an Engineer at Ashland Chemical, as an Instructor with the responsibility of teaching our Unit Operations course during the school year as well as the summer Unit Operations Laboratory. More of John’s early experiences with the Department appear elsewhere in the Newsletter.

Finally I have been most impressed with the level of financial support that our alumni provide to the department every year and through special gifts which have resulted in endowed scholarships for our undergraduates and professorships and chairs for our faculty. This support allows the department to pursue excellence in its everyday activities and is often the difference between an activity hard pressed to accomplish and a first class success that we can all be proud of. Thank you very much for all of your support. Please feel free to call, to send us an email or to stop by if it is convenient. Wishing you all the best.

Stuart L. Cooper

Clockwise from top left, Matthew Tirrell, Howard Brenner, Michael Shuler, Arthur Westerberg, and Skip Scriven, guest speakers at the 2003 Chemical Engineering Centennial Celebration.
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David Tomasko 292-4249
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H.C. "Slip" Slider 292-2698
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Class of 1953 Reunion

Roger & Martha Briggs

Will & Cella Ling
As you know, the Chemical Engineering Alumni Society has been formed and every graduate of the department is a member. However, the board of governors has voted to create a special category of membership, called the JEWELS CLUB, comprised of members who contribute $50 or more annually to the general development fund of the department. If you are already a donor to the Department, that is very much appreciated and we hope that you will continue with your support. If you are in this category, we will count the first $50 of your gift as membership in the JEWELS CLUB.

All of us receive several requests annually to give to The Ohio State University, the College of Engineering and other OSU organizations. However, the Chemical Engineering Department has not done this. As a result, the department often benefits only indirectly from alumni generosity. By contributing directly to the Department, however, it is possible not only to help your alma mater, but also to focus your giving on the area of higher education that provided you with your degree.

Your giving can help make a difference. With state support declining, sometimes the only difference between an excellent chemical engineering department and a superior one are the extra funds that come from individuals and corporations. Hence, you have this opportunity to invest in the value of your degree.

In securing Dr. L.S. Fan’s endorsement of this approach, we agreed that we had no idea regarding the amount that might be donated. However, there was no uncertainty about possible use of the funds. The Chemical Engineering Department needs scholarship funds, seed money to help attract new faculty, continual upgrades of the unit operations lab, and seed money for new research projects. In addition, Koffolt Lab is aging and there currently is no really suitable meeting room for visitors from industry and others to use. When we see what funds members of the JEWELS CLUB contribute, we can be sure that L.S. will put them to good use.

Jewels Club Membership

Name ___________________________________________________________ Degree and Year ___________________________________________

Address ________________________

City/State/Zip ______________________

Jewels Club Contribution ________ $50 ________ Other

Make Check Payable to: The Ohio State University
                        Department of Chemical Engineering
                        121A Koffolt Laboratory
                        140 West 19th Avenue
                        Columbus, OH 43210
Dr. Wyslouzil’s research is currently focused on problems in aerosol science. A primary goal of her work is to understand the formation and structure of multicomponent nanodroplets. She is particularly interested in learning how conditions in the gas phase affect the rate at which droplets are created and whether the nanodroplets themselves contain regions with distinctly different compositions. The latter is important because the way a droplet interacts with its environment depends on which molecules lie on the surface.

In order to study these nanodroplets, Professor Wyslouzil and her team of undergraduate and postdoctoral students produce aerosols using a supersonic nozzle apparatus. For most of the year these experiments are conducted in the laboratory using conventional methods like pressure measurements and light scattering. Approximately once a year, they pack all of their equipment on a 15-foot truck and drive to Gaithersburg, Maryland, where they set up their lab at the Center for Neutron Research at the National Institute of Standards and Technology (NIST). During their visit of four to five days, they use a highly sophisticated piece of equipment called a Small Angle Neutron Scattering (SANS) instrument. Because the wavelength of the neutrons is smaller than the size of the droplets, the neutron scattering patterns contain unique information about both the size and the internal structure of the droplets that cannot be derived by other methods. The NIST campaigns are grueling, as the experiments run for 24 hours a day for the entire span of their visit.

In addition to structural information, the aerosol number densities determined by SANS make it possible to measure droplet nucleation rates that are comparable to those found in turbomachinery, jet exhausts, and steam turbines. Finally, her research group also collaborates actively with colleagues on bio-related aerosol problems. The current focus is on developing aerosol-based delivery systems for tissue therapy.

Dr. Wyslouzil is actively involved in the aerosol science community having served on the Board and as the Secretary of the American Association for Aerosol Research. She has organized and chaired sessions at the annual meetings of AAAR, AIChE and the ACS Colloid and Surface Science Symposium.

A SHORT INTRODUCTION
by
Mr. John E. Corn, PE

Let me introduce myself... I am a recently early retirement career Engineer with 30+ years of industrial experience, mostly with Pilot Plant and Scale-Up programs. I have committed to The Ohio State Chemical Engineering Department that I would be available for the next several years to run the summer Unit Operations Laboratory class and the Process Development Lab portion of the Senior Design sequence. My career has included Chemical Engineering positions at General Electric, Georgia-Gulf, and Ashland Chemical. I also bring experiences in R&D Labs, Pilot Plants, and in major petrochemical production sites both as an individual contributor and as a Group Leader.

I have Chemistry degrees from the University of California (BS, Berkeley) and Purdue (MS, Organic Chemistry), and an Engineering Degree from Union College (MS, Schenectady, NY). I have been a registered Professional Engineer in Ohio since 1984 having passed the exam in the field of Chemical Engineering. Susan (my wife of 37 years) and I have 3 grown children, two of which are graduates of OSU including one that is a graduate (’96) of our Chemical Engineering program.

My commitment to the Unit Operations Lab experience is based on the belief that the hands-on experience is an extremely effective infuser of knowledge. The whole 5-week intensive experience of lab, lecture, report writing, and oral presentations allows our graduates to take away a basic and unique skill set. These skills are further molded by the graduates’ own creative application of these learnings in a wide spectrum of careers.

With respect to the Process Development Lab portion of the Senior Design sequence, I strongly believe that
the OSU undergraduate students deserve an opportunity to work and learn on an intense and meaningful academic or industrial Process Development project. The project sponsor gains some help in background reviews, some fundamental lab work and some preliminary economic analysis of a promising project. The senior student learns to apply the learnings from many of their ChE classes becoming aware of the whole development process, from the creative spark, finding the need, and justifying the project on economic grounds. The formal report and oral presentation to the class completes the process.

SHELL OIL COMPANY GRANTS

Nilesh Desai and Bob Jeffries visited the Department to present then Chair L.S. Fan with a check for $25,000 for a Shell Oil Grant. The purpose of the Shell Departmental Grants is to strengthen activities in specified academic areas. Each Departmental Grant is for use by the senior administrative officer of an area selected by the Shell Oil Company, in each participating institution. The money is to be used in ways bringing increased strength in the area selected. Chemical Engineering selected aerosol research in conjunction with the hiring of faculty member, Barbara Wyslouzil, to enhance the research excellence in this area.

DEPARTMENT NAME CHANGE

Last spring the Department announced a proposed name change to “The Department of Chemical and Biomolecular Engineering.” To enact the name change, the Department had to first petition other departments, whose students could be affected, for approval. Then the proposal had to be approved by the College of Engineering and, finally, the University. The name change will be adopted by Fall Quarter 2004. With the name change comes a new biomolecular option for ChE students. The option is similar to the existing environmental option except that certain chemistry classes are traded for biomolecular and molecular genetics classes.

CHEMICAL ENGINEERING CELEBRATES 100 YEARS AT OHIO STATE

The Department celebrated its centennial with the Chemical Engineering Centennial Symposium held on April 24 and 25, 2003. On April 24, invited speakers presented relevant research findings in a series of presentations focusing on unsolved problems in chemical engineering. While on April 25, special guests and alumni offered presentations focusing on the history of the department. A banquet closed out the event on the evening of April 25.

The first chemical engineering program in the country began at MIT in 1888. Ohio State followed by establishing a Department of Chemistry in 1902, and in 1906 the first bachelor’s degree in chemical engineering was awarded. In 1924, chemical engineering became its own department and moved into newly constructed McPherson Laboratory.

NEW PROGRAM SET TO LEAD IN DEVELOPMENT OF MICRO- AND NANOTECHNOLOGY

Ohio State has received a $2.9 million research grant from the National Science Foundation (NSF) to conduct research in micro- and nanotechnology. A new program entitled Molecular Engineering of Microdevices will lead research in the field of creating these tiny devices. A micro is a millionth of a meter, and a nano is a billionth of a meter – items the size of DNA.

The program is being led by L. James Lee and will focus on two areas of micro- and nanotechnology. The first is in the area of biotechnology application. They are developing nano-size devices to deliver medicines directly into the human body. In the future drugs will be used by DNA and devices will be needed to deliver those drugs. An example of a disease that could benefit from nanotechnology delivery system is diabetes. A diabetic who takes five shots of insulin per day would be able to use the nanotechnology to deliver the insulin directly to the needed areas. Nanotechnology would also be used in the area of tissue regeneration.

The second area nanotechnology research will impact is the automotive industry where it can help lower emissions and improve energy efficiency and engine performance. New nanotechnology can also utilize
ceramic parts to maintain the ability to function at high temperatures.

LOW COST NANOCOMPOSITE FOAMS

The State of Ohio Wright Center Project Fund (WC PF) granted $2 million in capital funds to Low Cost Nanocomposite Foams directed by L. James Lee. The project will develop polymer foams as insulation materials for the construction industry and other applications. The supercritical CO₂ foaming agent is environmentally friendly and eliminates the need for ozone-depleting chemicals during manufacturing.

OSU RANKED AMONG TOP RESEARCH SCHOOLS

Ohio State ranked No. 1 among public universities and third nationally for industry-sponsored research. Gathered by the National Science Foundation, this latest report evaluates based on funds spent on research rather than through grants received. OSU researchers put forth about 4,000 proposals a year and nearly half of the proposals are funded. Engineering, with 62 percent, and medicine, with 23 percent, make up the majority of proposals from OSU faculty.

OSU RATES HIGH IN LATEST RANKINGS

Ohio State has once again made the U.S. News and World Report’s ranking of top colleges. OSU was named the state of Ohio’s best public university. The university moved up two spots to tie for 22nd out of the 50 public universities ranked. The rankings are based on statistics from 2002, which showed improvement in many areas for OSU. The university’s six-year graduation rate improved 3 percent from 56 to 59 percent over the last year.

THIRD FRONTIER AWARD

The Ohio State College of Engineering received a $10 million Third Frontier Award to establish the Ohio Center for Advanced Propulsion and Power. Governor Bob Taft presented the award to Jim Williams, Dean of Engineering, in a ceremony at the Gas Turbine Laboratory at the Ohio State Airport. The Center will position Ohio as the leader in aerospace technology and research, and will allow Ohio to be a major supplier of engines to power new aircraft for military, commercial, and space applications. Collaborators with Ohio State on the center include the Air Force Research Laboratories, NASA Glenn Research Center, GE Aircraft Engines, and other Ohio industries, together with researchers from the universities of Cincinnati, Dayton, and Akron, Case Western Reserve University, and the Air Force Institute of Technology.

CLASS OF 1953 STATUE TRIBUTE

Thanks to the Class of 1953, The Department of Chemical and Biomolecular Engineering will acquire a substantial work of sculpture. A twice life-sized statue of Dr. Joseph H. Kofolt has been commissioned, using funds raised entirely by this Class. The idea for the statue was first broached by the alumni following the Department’s Centennial observation last year and was finalized during long negotiations and planning over the past 12 months. It will serve as a token of the esteem with which they held Dr. Kofolt as a teacher and inspiration in their professional lives.

The statue will be designed and sculpted by Marty Shuter, an OSU alumnus and adjunct faculty member. When complete, it will temporarily go on display in the Unit Operations lab, until such time that the new building is approved and a space is designed to display it prominently.

Please contact Geoff Hulse (hulse.1@osu.edu) if you would like further information.

ARCHIE GRIFFIN TO LEAD ALUMNI ASSOCIATION

Archie Griffin, one of Ohio State’s most recognizable graduates, has been named the next leader of the Alumni Association, an organized body of alumni dedicated to making Ohio State stronger. The Alumni Association is a dues supported organization of graduates, former students, and friends of Ohio State with 123,195 members.
ALUMNI UPDATE

1940
Robert F. McKibben, BChE, spent 36 years as Lubrication Engineer at NCR and 20 years as a part-time Math Instructor at Sinclair Community College. He retired from NCR in 1976 and Sinclair in 2000.

Richard J. Mitchell, MS ’41, was a member and for six years was President of the Board of Directors of the Central Contra Cotta Sanitary District in Walnut Creek, CA (1951-75). He is a veteran of WWII and was an Air Corps Pilot. He is currently an active retiree involved in recreation and volunteer activities, travel, and local politics in his retirement community.

1941
Roy Merryman, BChE, is retired from the Los Alamos National Lab as an Engineer and Staff Member in Weapons Engineering. He received an MS in Nuclear Engineering at the University of New Mexico in June of 1962.

1943
Robert W. Cascaian, BChE, is retired VP of Manufacturing and Engineering in the Management Department of F.E. Myers Co.

R. Marvin Garrett, BChE, is the retired owner of the Margar Engineering Corporation. Marvin has kept very busy traveling, flying planes, sailing, playing tennis, and participating in numerous other adventures.

Vern Seguin, BChE, is Associate Professor of the College of Business (Marketing) at the James Madison University. He was in the Navy and has worked and lived in numerous locations. He has a Seven Continents World Travel Patch and has published travel articles.

1948
Cloyd P. Reeg, BChE, is President of the Research and Energy Divisions of Unocal.

1949
Samuel Shiu-Ming Fok, BChE, retired in early 1990 as Principal Engineer at Perkin-Elmer EBT Division and became a full-time consultant for ETEC System for another eight months. He now enjoys tutoring, Chinese brush painting, walking, table tennis, and photography.


J. Howard Kerstetter, Jr., BChE, is retired from the Laclede Gas Co. He enjoys his retirement at the Lake of the Ozarks and is active in his local church.

1953
Paul R. Kumler, MS ’53, is retired from the Analytical Staff of BF Goodrich/Geon/PolyOne and is enjoying retirement by playing music semi-professionally and traveling.

Paul Kumler and his wife Louise

Willard Potter, MS ’77, is a retired teacher and professor and a veteran of WWII and the Korean War. He travels extensively on missionary work trips.

John M. Uncapher, BChE, is retired from the Thomas W. Rufflo Company.

Kenneth E. Whitehead, BChE, is retired from the Science & Technology Department of Unocal. Outside interests include worldwide travel, photography, electronics, and computing.

1954
Gilbert E. Raines, MS ’54, is retired after working for Union Carbide, Battelle, Lawton & Associates, and EES Corporation. He has five children, two of whom have degrees from OSU.
1956  
Lawrence W. Jordan, BChE, lives in Oregon and is a Professor of Physical Sciences at Marin College. He received his PhD in Engineering in 1959.

1957  
Walter A. Flack, BChE, is retired as Manager/Engineer in the Operations Department of the Laidlaw Environment Services, Inc.

1958  
Barry C. Hartley, BChE, is a retired Senior Industrial Engineer in the Management Services Division of Eastman Kodak. He and his wife have four children, two with degrees from Ohio State.

1960  
Edgar W. Fasig, Jr., MS ’60, retired from DuPont after nearly 35 years. He developed and introduced Teflon PFA fluorocarbon resin in the 1970s, an important product line for DuPont and industry.

1964  
Dennis McAdams, BChE, retired as Manager of Engineering from Dixie Chemical in March 2003 and moved to the hills of Tennessee.

1965  
John P. Gegner, BChE, retired from Chevron after over 34 years. He began his career with Chevron right after graduation from OSU. He enjoys traveling, skiing, golfing, and remodeling.

1967  
Richard D. Stolk, PhD ’71, was recently promoted to Associate Technical Fellow in Boeing Co. for Material Developments.

1968  
Geoffrey Lindsay, BChE, is a Research Chemist Supervisor for the U.S. Navy. He performs research on optical wave guides, fuel cell membranes, and coatings for corrosion protection based on electro-active polymers.

1970  
Gary Q. Johnson, BS, is retired as Consulting Engineer for Procter & Gamble in the Health, Safety, & Environment Engineering Department. He has a consulting business in workplace exposure control and is affiliated with the Health & Environmental Safety Alliance.

Danley B. Wolfe, PhD ’74, is President of TeleMetrix Inc. and resides in Ohio.

1972  
H. Nick Conkle, BS, recently celebrated his 30th year as a Chemical Engineer at Battelle Memorial Institute. He was recently promoted to Research Leader for the development and commercialization of new environmentally friendly technologies.

Ted W. Marker, MS ’75, is a Plastics Extrusion Specialist for Basell USA. He has been active in the Society of Plastics Engineers since 1990.

1974  
Raymond T. Collins, MS ’77, is Vice President of the Other Business Product Business Unit of Shell Chemicals L.P.

1979  
Dean J. Kerekos, BS, is the Engineer Manager for Clorox Company.

1980  
Michael Hu, PhD ’83, is a Senior Staff Consultant at Shell Global Solutions in the Optimization & Modeling Department.

1981  
Jerri Banker Comer, BS, serves on the school board of a small Christian school in Cairo, Egypt.

R. “Lee” Comer, BS, is Reservoir Engineer for British Petroleum in the Egypt Western Desert Department. He golfs twice a week.
Dan Harriman, BS, is the National Marketing Director at Capital Choice Financial Services. He attended the “awesome” National Championship game in Arizona with 1980 graduate Matt Galosi.

1982
Terry Chern, PhD, is Technical Director – Global Business Director – North Asia for Honeywell International Inc. in the Performance Products Division. He was recently promoted to his position as Technical Director of the newly consolidated Performance Products Division.

Karen Christensen, BS, runs a Suzuki Piano Studio in Virginia.

Andrew M. Weber, BS, accepted a transfer to DuPont Ventures and was promoted to General Manager. He will be responsible for development of a comprehensive photonics strategy for DuPont.

1984
Thomas Forrester, BS, is an Executive COO for Plexicon and lives in California.

1986
Cindy Bishop, BS, is an Attorney with Gardere Wynne Sowell, LLP where she was promoted to partner. Her practice emphasizes environmental law and she represents many oil and chemical companies.

Michael L. Gilles, BS, is Facility Manager at Westinghouse Savannah River Company and is a member of the Italian American Club of the CSRA.

1987
Donna Walter, BS, is Supplier Development Manager at Ames True Temper in the Purchasing Department.

1991
Karen Latvala White, BS, is a Manager of Quality and Customer Service for Sunoco Chemicals.

1993
Jim Skipworth, BS, is Lead Engineer, Process & Optimization for Sunoco, Inc. in the Technical Services Department. He and his wife have a new baby girl.

1994
Trevor H. Cooke, BS, is an Engineer in the Municipal Department of the Larkin Group, Inc. He has been instrumental in bringing ultrafiltration and microfiltration to municipal water treatment.

2001
Shiloh (Ribich) Dalpiaz, BS, is Chemical Process Engineer/Growth Supervisor for Saint-Gobain in the Crystal Growth and Purification Department. She was promoted to supervisor in March 2003 and moved into a new home in January 2003.

Simona Gherman, BS, is Validation Engineer for Ben Venue Laboratories, Inc. in the Process Validation Department.

2002
Kathleen (Sonni) Firlik, BS, is an Engineer with Johns Manville. She was married the day after she graduated from Ohio State.

In Memoriam

Parker S. Dunn, BChE ’30, passed away on February 27, 2003 in Oklahoma City. With his death the chemical engineering profession, the Chemical Engineering Department, and The Ohio State University lost a long-time, distinguished, and dedicated alumnus. Throughout his life, as a loyal Buckeye and one of "Joe’s Jewels," he maintained a high level of dedication and support for the Department.

Parker S. Dunn
2003 ALUMNI DONORS

1932
Harry J. Green, Jr.

1934
Edward E. Slowter

1936
Richard A. Miller
Joseph G. Mravec

1937
Nicholas Fatica
Frederick R. Pullen

1939
Dillard W. Kuhlman
Howard G. Rohrer
Charles A. Rohrmann
Clayton W. Weber

1940
Paul D. Cooper
Arthur G. Mayer
John H. Miller

1941
George L. Meyers, Jr.
David Thomas

1942
Donald S. Arnold
Randal E. Bailey
Dale B. Baker
R. Richard Midlam

1943
Halvor S. Christianson
Walter E. Craw
Dalton Drake
Marvin Garrett
Glenn L. Gifford
Leonard A. Harris
Carlyle E. Shoemaker

1944
Wade Wolfe, Jr.
James C. Wynd
Hong Ton Yee

1945
Wallace L. Bostwick
Clarence A. Haverly, Jr.
Edward W. Powell
Grover C. Strickler, Jr.

1946
Kennard L. Wing

1947
Kenneth A. Brandstetter

1948
Dallas D. Dupre III
William K. Fell
Thurman L. Graves
John M. Kolbas
Herbert G. Krane
J. Bruce Martin
Bryce H. McMullen
Aloysius M. Sebian
Donald F. Stauffer
Leroy Streett

1949
Paul E. Bates
Gordon G. Cross
Raymond D. Hammond

1950
Theodore M. Jenney
J. Howard Kerstetter, Jr.
Frederick A. MacDougall
Richard N. Miller
Glen D. SchAAF
Charles R. Shepherd
Roland I. Spencer

1951
Walter E. Donham
Russell F. Drobe
David R. Hamilton III
Verne R. Rinehart
Richard L. Scott
Ralph E. Sieber
Harold L. Stelzer, Jr.
Robert E. Thompson

1952
Richard N. Eilerman
Rob R. MacGregor
John R. Parkinson
David B. Speed
David A. Strang
Bruce W. Wilkinson

1953
James F. Froning
Donald E. Haupt
Richard F. Hazleton
C. Richard Heil
Charles J. Schmitz
David G. Stephan

1954
Robert A. Bates
G. Clyde Bazell
Richard N. Beals
Roger L. Briggs
John V. Bishop
David E. Buskirk
Louis O. Elseasser
Donald E. Findlay
Robert T. Hewitt, Jr.
George F. Koch
Wilfred C. Ling
Donald A. MacDougall
John G. Mahoney
Willard H. Potter, Jr.
Ernest Reinmuller
Manoj K. Sanghvi
Michael A. Tallarico
Kenneth E. Whitehead
James L. Wilson
Robert A. Wiseman

1954
Richard E. Dudley
Gilbert E. Raines

1955
W.B. Hammond, Jr.
John H. Hoge

1956
Robert A. Cody
Frank J. Schuh

1957
Walter R. Andrews, Jr.
A. Leo Carter
Walter A. Flack
Philip L. Fondy
Jon D. Helms
Paul J. Kienholz

1958
John J. Connelly
James R. Facer
Phillip H. Gifford II
Dan M. Hayes, Jr.
Werner S. Lichtenstein
Frank J. Nagy
Valdis E. Petritis
Richard M. Smith
Harold A. Sorgenti
James W. Stark
Lawrence R. Steele

1959
Lee W. Addie
James O. Albery
James R. Godwin
Ronald M. Kovach
James H. Laughlin
Darryl J. Von Lehmden
Gerald A. Wilcox

1960
Virgil L. Anderson
Guy A. Crossley
Edgar W. Fasig, Jr.
Orville W. Gruebmeyer, Jr.
Gordon R. Howard
Warren E. McAdams

1961
Paul R. Bigley
Richard B. Cooper
Edward R. Corino
Ronald D. Harris
Larry E. Woodworth

1962
David E. Bidstrup
Kenneth J. Fulk
James C. Opatrny
Dean Snider
Michael D. Winfield

1963
Myers G. Hammond
Robert P. Kasper
Fred A. Shaffstall
Kay Logan Snider

1964
William R. Ferris
James B. Sapp

1965
Frederick H. Flor, Jr.
John P. Gegner
Kiu H. Lee
Frederick J. Rerko

Gary L. Street
Eugene N. Wheeler

1966
William F. Deerhake
Thomas E. Fitz, Sr.
William G. Lowrie
Glenn L. McGee
John H. Miller

1967
John W. Bradshaw
Graham F. Painter, Jr.
John M. Yacher

1968
Gerald Lehmann

1969
James F. Dietz
Smith E. Howland
John D. Litt
John W. Toussant

1970
David R. Grove
John D. Rensel
Richard B. Strait
Rosa Uy

1971
Kerry G. Hertenstein
Jeffrey L. Kosch
William E. Pritchard

1972
Michael J. Clark
Hubert M. Litt
James P. Russell

1973
Erin Colleen Bennett
John C. Bost
Norman F. Lucas, Jr.
Thomas E. Spriggs
Johnny O. Wright
1974
Steven M. Irwin
John E. Myers
Michael A. Patterson

1975
John T. Erikson
Stephen L. Grant

1977
Douglas J. Hallenberg

1978
Neil P. Stuber
Paul W. Vance
Thomas E. Winkler

1979
Darice Majowski Davis
John F. Kreinbrink
Randy W. Schumaker

1980
Frederick T. Clark
Carol Bur Ehrman
Fred D. Ehrman
Matthew J. Galosi
Mark A. George
Sunil Satija
Laura Lee Shapiro
Timothy L. Strickler

1981
Nancy Coultrip Dawes
William J. Dawson
Sunil Satija
James A. Telljohann

1982
Terry Chern
James J. Toth

1983
Cheryl Kennedy Alfieri
Michael B. Begland
Tracy Flora Begland

1984
Thomas D. Burns
Mark D. Dieringer
Samuel D. Fink
Keith R. Nowak
James C. Toth

1985
John A. Bohlmann
Robert G. Larsen
Gregory M. Masica
George W. Miller
Jagannadh V. Satyavolu
Paul D. Wooley

1986
Roger G. Facer
Mark J. Hogan
Timothy A. Johnson
David J. Moonay

1987
Cynthia Gerstle Bishop
Edward Brocherek
Tharuvai S. Ramesh

1988
Jeffrey D. Adams
Denise Marie Burcham
Daniel B. Hartley
Kimberly Franklin Hoyt
D. Brian Noc
Timothy A. Rash
Thomas L. Sweeney

1989
Amy Schmitt Doty
M. Alison Jabour
Paula Fulk Oren
Wes Oren
Thomas E. Reardon
Michael R. Reed
Keith M. Russ
Todd S. Yunker

1990
James V. Lombardi
Alex C. Woravka

1991
Michael J. Desautels
Rhonda J. Lee-Desautels
Richard L. Wright

1992
Pamela J. Archer
Scott A. Joehlin

1993
Scott D. Blatter
Frank E. Seipel

1994
John D. Clay
Matthew J. De Witt
Christopher W. Voight

1995
Bradley R. Wooledge

1996
Timothy R. Johnson
Liping Zhang

1997
James L. Bickett
Paul D. Cowan
Jennifer J. Scheehle

1998
Julia Bednarzik Farroni
Michael T. Timko

1999
Dentira Bruer-Robinson

2000
Regis P. Geisler III
Raashina Humayun
Richard J. Mathes
2001
Marcin J. Telko

Friends of ChE
Betty Bartels Bates
Martha A. Briggs
Joseph A. Cotruvo
Douglas E. Detterman
Donna McGinnis Fink
Robert L. Gaynor
Marilyn E. George
Saul Gordon

2002
Elizabeth M. Lynch

Aaron P. Griset
Doris P. MacDougall
Bruce B. Murray
Charles F. Porter
Gail L. Reardon
Debra L. Rieck
Linda Rae Sapp
Eleanor Wall Syverson

2003
Aaron P. Griset
Xiangmin Han

Radhakrishna Sundaresan
Scott L. Swartz
Thomas L. Sweeney
Richard T. Taylor
Thomas A. Timko
Betty French Unkel
Helen Lorenzoni Von Lehmde
Caroline Winkler
Pamela Hall Woolledge
Melissa Yunker
Jacques L. Zakin
Liping Zhang

L.S. Fan with Nilesh Desai (left) and R.G. (Bob) Jeffries (right) of Shell Oil Company. These gentlemen visited ChE to present a check for a Shell Departmental Grant, designed to strengthen activities in specified academic areas.
CLASS REUNIONS

The Class of 1943 and the Class of 1953 returned to the halls of Koffolt Lab on April 24 and 25 of 2003 to join Chemical Engineering in observing its Centennial Celebration. At the symposium on April 24, four distinguished chemical engineering educators presented their visions on unsolved problems that chemical engineers will face in the future: Professor Howard Brenner, Massachusetts Institute of Technology – Fluid Mechanics; Professor Michael Shuler, Cornell University – Biochemical Engineering; Professor Arthur Westerberg, Carnegie Mellon University – Systems Engineering; Professor Matthew Tirrell, University of California, Santa Barbara – Advanced Materials with emphasis on Nanotechnology. On Friday, April 25 the focus was on the development of the chemical engineering profession, starting with a presentation by Professor L.E. (Skip) Scribner of Minnesota. A power point presentation on the history of the Department followed. After lunch, alumni and faculty spoke on chemical engineering at Ohio State from the Withrow and Koffolt years to the present. Tours of the department followed. On Friday evening a reception and banquet were held at the Blackwell Inn.

Thanks to the Chemical Engineering Department and Jacques Zakin we were squired about to activities at Koffolt Lab, the Blackwell Inn, and residences to attend festivities and discuss present and future plans of our class. The talks and presentation were well done and we learned that some 5,000 students have now completed the Chemical Engineering curriculum through the past 100 years! There are vast differences in the curriculum today compared to our days. One big change from our day was that our studies included major courses in Mechanical-Metallurgical (including Dr. Withrow’s deep interest in Mineralogy) and Industrial and Electrical Engineering. In our day, to graduate we were required to have more credit hours than any other discipline. In addition, we had mandatory summer work, and after Pearl Harbor Day, we were 1-A in the draft. Consequently, we took 22-26 credit hours every quarter until graduation, and spent 40-44 hours in classes each week. It was a different time! We managed these years at $400/year!!!!

THE 60th REUNION OF THE CLASS OF 1943
(by Glenn Gifford)

The Jewels of 1943 (or the Bad Boy Class as Joe Koffolt described us due to Mechanical Engineering’s complaint about us the last six weeks of our senior year) met to reminisce our long tenures. It was combined with the 100th anniversary of the founding of the Chemical Engineering Department in 1903. The Class of 1943 had 70 graduates during the four quarters of 1934 from a start of about 200 students beginning in 1939 (the same time Hitler was invading Poland). Of the 70, some 38 survive and 13 (plus 7 spouses) attended the festivities. All attendees were in their 80s and one was 90. Three are still busy at some aspect of chemical engineering. Our class attendance each five years has consistently been the highest percentage of any department of the University – being over 50% at the 50th Reunion.

The Class of 1943 Reunion
CLASS OF 1953 REUNION (by Don MacDougall)

The reunion held in Columbus on Thursday to Saturday, April 24-26, 2003 was a great success, marred only by the fact that not all of our classmates could attend. After some last minute cancellations, thirteen members of our class attended along with seven of their wives. We started with an informal get-together in the lobby area of the Holiday Inn on Thursday evening, after which we went next door to the Cooker restaurant for supper. On Friday morning, we took a student-guided bus tour of the entire campus that was quite interesting, as the campus has grown so much (and continues to do so) since we graduated. There is construction going on in many areas of the campus. We then joined the Chemical Engineering Centennial program at the Blackwell Inn for the rest of the morning, which included a Power Point slide show of the history of the department narrated by Bob Brodkey. Lunch was held in Hitchcock Hall, sponsored by the College of Engineering for alumni from the classes of ’43 and ’53. Jim Williams, Dean of Engineering, spoke at the luncheon and gave us a “college update,” after which we saw a robot demonstration. In the afternoon, we returned to the Blackwell for more Centennial presentations that included reminiscences by Alex Lemmon, Tom Koffolt (Joe’s son), and by other Chemical Engineering graduates. We then went over to the Chemical Engineering building for an interesting tour of Koffolt Lab, in which we learned that there are general plans for a new or vastly renovated building in five years or so. Budget constraints, etc., are a problem but ‘Chemical and Biomolecular Engineering’ (the new name of our department) is slated to be in the forefront of the next round of construction.

Friday evening we enjoyed a buffet dinner in a private room at the Buckeye Hall of Fame Café that went very well. Will Potter gave the blessing and, after the dinner, each of the attendees talked briefly about what they have done since graduation. Bob Bates read a statement from L.S. Fan, current Chairman of the Chemical Engineering Department, expressing regret at not being able to attend our dinner and congratulating us on our landmark 50th anniversary reunion. Don MacDougall then read comments received from classmates unable to attend. all wishing us a great time at our reunion. A last minute FAX sent to the restaurant by Bob Wiseman, in which he related humorous stories about some of our classmates during our student days, was also read.

Lee Atchens handed out copies of the booklet/directory he put together that includes a listing of all our classmates with current addresses and phone numbers along with brief biographies and photos that each had submitted. Lee said he plans to send copies to all those who did not attend the reunion.

We talked about what gift we might make as a class to commemorate our 50th reunion. After much discussion, in which it was noted talks given at the Chemical Engineering Department’s Centennial program really confirmed how significant Joe Koffolt’s contribution to our Department had been, we decided to proceed with donating a life size bronze statue of Joe to be placed in the Chemical Engineering building. It will be produced by the Art Department at Ohio State, and be moveable into the new or reconstructed Chemical Engineering building. The estimated cost of the statue is about $12,000 which appears to be a reachable goal in view of the fact that to date seven of our classmates have donated a total of over $5,000 toward the Class of ’53 gift fund.

The evening closed with everyone singing the familiar OSU school songs – “Across the Field,” “Buckeye Battle Cry,” and our Alma Mater “Carmen Ohio” – accompanied by Paul Kumler on sax and Don MacDougall on trumpet.

Saturday morning a few of us met for an informal breakfast at the Holiday Inn, after which we bid farewell until we meet again.
CHEMICAL ENGINEERING SHINES

ALUMNI

DISTINGUISHED ALUMNUS AWARD

John A. Weaver, BC ’65, was the winner of the 2003 Distinguished Alumnus Award. He received a BC in Chemical Engineering from Ohio State in 1965. The Distinguished Alumnus Award was established by the faculty of the College of Engineering in 1954. Their purpose was to recognize distinguished achievement in one’s profession by reason of significant inventions, important research, or design, administrative leadership, or genius in production. Upon graduation from Ohio State, John joined BF Goodrich (BFG) in their chemical R&D organization to help develop a process to manufacture a new synthetic rubber. He then led the development of a process computer control system and participated in the engineering design of the manufacturing plant. The computer control system developed was cutting edge at the time and John presented papers at national conferences on the concepts utilized. His engineering career continued with a lead role in the development of a unique computer control system for a new large reactor PVC plastics plant.

John’s management career began in 1978 when he was made Plant Manager of a synthetic rubber plant. In 1980 he was named General Manager of a small, failing, plastics business. His broad technical and analytical skills learned at OSU were used to transform that business. His team developed a new environmentally sound manufacturing process, invented an improved product line, implemented a creative marketing and sales program and built a new manufacturing plant. The business was transformed into a high growth, high margin business for the company. He progressed to Vice President/General Manager of other chemical businesses at BF Goodrich (BFG); some in which he drove growth and some that required a turnaround.

The senior management phase of his career was with the Specialty Chemicals segment of BFG. He was Group Vice President of Specialty Plastics and then Group Vice President of Specialty Additives. These were the two major components of the Specialty Chemical segment. He had worldwide responsibility for all aspects of the businesses that made up those groups including: R&D, manufacturing, marketing, sales, finance, HR, and strategic planning. He led the transformation of a number of independent businesses into a coordinated market-focused group of profitable growth businesses. As Group Vice President of Specialty Additives, his team tripled the size of those businesses (to over $1 billion in sales) over a 6-year period and improved their profitability to among the highest margin businesses at BFG. That was done by aggressive internal development and through acquisition. He led the acquisition of a dozen companies that supplemented the existing businesses as well as accelerated the accomplishment of strategic objectives.

John has been involved in various industry and civic organizations including serving two terms as President of the Plastic Pipe and Fitting Association. He currently serves his community by volunteering with the Service Corp of Retired Executives. John credits his well-rounded OSU Chemical Engineering education for preparing him for his rewarding career. Not only was there a strong technical component to the curriculum, but also a practical and analytical theme was always there.

VICTOR MILLS SOCIETY APPOINTEE

In November, 2002, Nancy Dawes, BS ’81, was inducted into the Victor Mills Society at Procter & Gamble. Procter & Gamble established the honorary Technical Society named after Victor Mills, generally recognized as the most productive technical innovator in their company’s history. The purpose of the Society is to honor top scientists and technologists, not merely for being incredibly creative inventors, but most importantly for delivering a prolonged history of consistent, major, bankable business contributions. In addition, each member is clearly recognized by their colleagues as an inspiration for other scientists and technologists, with a demonstrated willingness to
share their knowledge, experience, and skills to help move the business forward. There have been only 33 appointees to the Victor Mills Society since its inception.

Nancy’s true passion and gift are in technical Products Research: identifying consumer needs and then creating brilliant holistically designed products to meet those needs. In addition to ground-breaking work on Pringles and other areas, Nancy is perhaps best known for defining a global consumer model for the niacinamide-based anti-aging skin care chassis, leading to highest ever global consumer acceptance test scores for moisturizers.

INDUSTRY & TECHNOLOGY COUNCIL OF CENTRAL OHIO TOP CAT TECHNOLOGY HALL OF FAME

Dale Baker, MS ’48, was selected for the Top Cat Technology Hall of Fame. He led Chemical Abstracts for 28 years beginning in 1958. During that time, the database division of the American Chemical Society developed into one of the world’s premier chemical information retrieval systems. Baker advocated computerizing the division’s database of information on chemical compounds, patents and related items. Today, the service has more than 22 million abstracts accessible online.

ASHLAND INC. NAMES KAREN MURPHY VICE PRESIDENT

Karen T. Murphy, BS ’79, was named Vice President, Environmental, Health, and Safety (EH&S) of Ashland Inc. Her new responsibilities will include overseeing the company’s safety, compliance, and environmental programs and performance. In addition to serving as owner of Ashland’s Responsible Care process. Karen joined Ashland in 1995 as Quality Director after 16 years with Rohm & Haas. She most recently served Ashland as Director, Environmental Solutions, EH&S. Her experience also includes positions as Director of Sales and Customer Service for Ashland’s Electronic Chemicals Business and as a Business Manager for the Ashland Composite polymers business group. Karen received a master’s degree in engineering from Drexel University and an MBA degree from Franklin University. She serves on the Che Advisory Board, the Ohio Chemical Technology Council Board, and the governing board of Junior Achievement of Central Ohio.

AWARD OF ACHIEVEMENT

Richard L. Mayer II, BS ’80, received an Award of Achievement from the Nuclear Fuel Cycle Subchapter C26.10 of the American Society for Testing and Material (ASTM) International. The award is the result of his many years of participation in writing nondestructive assay (NDA) standards used around the world. Nondestructive assay is an analytical technique used to determine the type, location, and quantity of radioactive material present in process components and containers. This technique is routinely used to reduce the potential for nuclear proliferation and to ensure that nuclear material is properly safeguarded.

Receipt of this award is a significant accomplishment that demonstrates a personal commitment to excellence.

FACULTY

AMERICAN ACADEMY OF MECHANICS

Professor Robert Brodkey was elected a Fellow in the American Academy of Mechanics, which is a member society of the U.S. National Committee on Theoretical and Applied Mechanics.

COLUMBUS TECHNICAL COUNCIL 2003 PERSON OF THE YEAR AWARD

Professor Umit Ouzan was the recipient of the Columbus Technical Council 2003 Technical Person of the Year Award. The award honors individuals who, in the judgement of their peers, have excelled in their chosen fields as well as in service to their technical and professional societies and to the community.

COLLEGE OF ENGINEERING STANLEY E. HARRISON AWARD

Professor Jeffrey Chalmers received the Stanley E. Harrison Award from the College of Engineering. The Harrison Award was established in 1983 with a gift from Doris A. and Stanley E. Harrison. Each year College faculty give this $14,000 award to a faculty member in the early-to-mid part of their career. The award is based on excellence in teaching and qualitative aspects of teaching; exceptional funda-
ment or applied research; or a single or unique contribution to engineering or architectural concepts.

**COLLEGE OF ENGINEERING LUMLEY INTERDISCIPLINARY AWARD**

Professor Kurt Koelling received the College of Engineering Lumley Interdisciplinary Award. This Award was established in 2002 to recognize interdisciplinary research accomplishments of College faculty and research staff. The award is presented to a team who has established a record of excellence in interdisciplinary research as demonstrated by co-authored publications, joint sponsored research programs, and co-advised students. The team is comprised of faculty or research scientists from at least two different departments and can include members from other colleges. The amount of each award to an individual team member is $1,000.

**COLLEGE OF ENGINEERING LUMLEY RESEARCH AWARDS**

Professor Bhavik Bakshi and Professor David Tomasko each received a College of Engineering Lumley Research Award. The Lumley Research Awards go to a select group of outstanding researchers in the College who have shown exceptional activity and success in pursuing new knowledge of a fundamental or applied nature. This $1,500 award is in honor of John H. Lumley. The John H. and Mildred C. Lumley Engineering Endowment Fund, established with $747,000 from the Lumley estate, is intended to promote and enhance research within the College.

**STUDENTS**

Ling Zhang won the 3rd place in the Denam Undergraduate Research Forum.

Paul Hobson won the AIChE Central Ohio Section Outstanding Student Award.

Kurt Frey won the Donald F. Othmer AIChE Sophomore Academic Excellence Award.

Matthew Ducay won the Dow Outstanding Junior Award.

Nicholas Brunelli won the Chemical Engineering Alumni Society (CEAS) Outstanding Senior Award for Academic Excellence.

Robert Walters won the CEAS Outstanding Sophomore Award for Academic Excellence.

Gary Seto won the Chemical Engineering Department (ChE) Co-Op Award.

Swaroop Chatterjee, Shona Patel, and Ling Zhang received the ChE Undergraduate Award for Outstanding Research.

Erik Holmgren, Alissa Park, Changchun Zeng, and Ying Zhang received the ChE Graduate Award for Outstanding Research.

Xia Cao, Himanshu Gupta, Xiangmin Han, Yi-Je Juang, Konrad Koeltzsch, Nuray Oktar, and Okan Oktar received the ChE Postdoctoral Award for Outstanding Research.

Megan Miller won the College of Engineering (COE) Top Academic Award.

Annette Bryan, Shelley Bucholz, Megan Cavanaugh, Daron Diener, Lori Englehardt, Elizabeth Fanton, Shona Patel, Imogen Pryce, Maren Seibold, Stefanie Sparks, Sherry Wunderle, and Ling Zhang won COE Outstanding Academic Awards.

Andrea Barger, Rebecca Fauver, Katie Martin, Samantha Ticchi, and Eugenia Wang received COE First-Quarter Certificates of Achievement.
**Current Alumni Information**

**Alumni News 2003**

**PERSONAL**

Name____________________ Spouse____________________

Address____________________

City____________________ State____________________ Zip____________________

Children____________________

**COLLEGE**

Degree____________________ Major____________________ Month/Year____________________

Degree____________________ Major____________________ Month/Year____________________

**PROFESSIONAL**

Occupation____________________

Most Recent Employer____________________

Department____________________

**ACTIVITIES**

News and information to share with fellow alumni and friends in Chemical Engineering. Work related, outside activities, achievements, honors, family news, etc.

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Please fold and tape this page so the address on opposite side is centered. No postage is necessary, the postage will be paid by the Department of Chemical Engineering.
Class of 1953 Reunion - Front Row Left to Right: Bill Potter, Bob Bates, Don MacDougall, Leo Peoples and Dick Beals
Back Row Left to Right: Paul Kumler, Roger Briggs, Richard Huntington, Ernest Reinmuller, Bill Casto, George Koch, Lee Athearn and Wilfred Ling

Chemical Engineering Class 1953