Dear Alumni,

As the Summer Session begins at Ohio State it is relatively quiet on campus (except for our summer unit operations lab which recently ended) and a good time to reflect on the past year’s activities in the department. On July 1, we welcomed Jessica Winter to the department as our newest Assistant Professor. She arrives after her two year postdoc at Harvard University and her Ph.D. at the University of Texas. She intends to establish research in the area of biomolecular engineering with particular emphasis on applications relating to biosensors and biomaterials and their interactions with tissues and cells.

This past year brought significant recognition for L. S. Fan. L. S. was awarded The Ohio State University’s Sullivant Medal which is awarded once every five years. He was honored during last Autumn’s graduation ceremony with presentation of the medal by President Holbrook. L. S. also received the Murphree Award from the American Chemical Society at the Spring National ACS meeting. Other faculty honors were conferred on Jeffrey Chalmers who was elected to Fellowship in the American Association for the Advancement of Science. Jeffrey Chalmers and Umit Ozkan received College of Engineering Lumley Awards.

It is also nice to mention that momentum is building for the reconstruction of Koffolt Laboratories. As part of the planning for the future of Koffolt Laboratories we have commissioned a feasibility study by CO Architects of Los Angeles, California. They are considering three possibilities and carrying out preliminary cost analyses to aid in campus and departmental planning. The options are: 1. Expand and remodel the existing building, our original concept. 2. Tear down the existing building and rebuild on site. 3. Rebuild at a different location.
on campus. Each of these options has advantages and disadvantages both in program continuity and costs. We will find out the details of this study shortly and after that a consensus should be reached on campus in terms of which pathway we will take. Our intention is for the building to retain the Koffolt name in its future incarnation. It looks like the total costs will be in the range of $70M of which the department is expected to raise at least $20M. We are already working toward that end with a National Committee, Chaired by William Lowrie, developing a strategy for this capital campaign. We hope that all our alumni will contribute what they are able to see this vision for a modern facility honoring the Koffolt legacy realized. The department has established a Koffolt Building Fund and we are pleased that so far we have about $1M in gifts and pledges toward our goal.

Finally, enrollments continue to be strong with both last year’s freshman class and the incoming class this Autumn at about 100 students, just about at our capacity. This will translate to increasing seniors graduating in a few years up from a near term low of 45 in 2005-06. Our graduate enrollment remains strong at about 90 students and last year we had an unusually high number of 21 students receive Ph.D. degrees. This is all occurring during a time when career prospects for our students are strong and increasing.

Our faculty, staff and students wish our alumni well and we encourage you to keep in contact with the department. One way you can do this is to please take a moment to fill out and return the alumni profile included in the newsletter. The department sends its best regards to all.

Paul Kienholz (left) and other members of the National Committee tour the new Mechanical Engineering building.
Phone (614) 292-6591  
Fax (614) 247-8323  
E-mail che@osu.edu  
http://www.chbmeng.ohio-state.edu/che/

Department of Chemical and Biomolecular Engineering  
The Ohio State University  
140 W. 19th Avenue  
Columbus, OH 43210-1180

**Chair**  
Stuart Cooper  292-7907

**Faculty**  
Bhavik Bakshi  292-4904  
Jeffrey Chalmers  292-2727  
L.S. Fan  688-3262  
Martin Feinberg  688-4883  
Winston Ho  292-9970  
Kurt Koelling  292-2256  
Isamu Kusaka  688-8302  
James Lee  292-2408  
Umit Ozkan  292-6623  
Michael Paulaitis  247-8847  
James Rathman  292-3760  
David Tomasko  292-4249  
Barbara Wyslouzil  688-3583  
S.T. Yang  292-6611

**Instructor**  
John Corn  688-8254

**Emeritus Faculty**  
Robert Brodkey  292-2609  
Ed Haering  (419) 798-4619  
Harry Hershey  292-6610  
H.C. "Slip" Slider  292-2698  
Edwin Smith  292-6033  
Tom Sweeney  436-9099  
Jack Zakin  688-4113

**Staff**  
Mike Davis  292-6928  
Stacy Doepker  292-9599  
Leigh Evrard  292-2780  
Lynn Flanagan  688-3309  
Paul Green  292-2718  
Mary Hoy  292-6986  
Geoffrey Hulse  292-3589  
Angela Jones  292-9076  
Dave Jones  271-6718  
Martha Leming  688-5640  
Carl Scott  292-2728  
Paula Steveson  292-5120  
Sherry Stoneman  292-7907

Sherry D. Stoneman, *Alumni Liaison,*  
*Newsletter Editor*  
(W) 614-292-7907  
stoneman.3@osu.edu

Contemporary photography and page layout by Geoffrey Hulse
As you know, the Chemical and Biomolecular 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 and Biomolecular 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 and Biomolecular 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.

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 and Biomolecular 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 the Department will put them to good use.

<table>
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<tr>
<td>Name_________________ Degree and Year____________</td>
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<td>Address________________________________________</td>
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<tr>
<td>City/State/Zip__________________________________</td>
</tr>
<tr>
<td>Jewels Club Contribution___ $50____ Other</td>
</tr>
</tbody>
</table>

Make Check Payable to: The Ohio State University
Department of Chemical and Biomolecular Engineering
121A Koffolt Laboratory
140 West 19th Avenue
Columbus, OH 43210 (and on the memo line - Fund # 54019)
2006 LOWRIE LECTURER

This year’s Lowrie Lecturer was Alice P. Gast. Dr. Gast is the Robert T. Haslam Professor of Chemical Engineering and the Vice President for Research and Associate Provost at Massachusetts Institute of Technology. Prior to moving to MIT in 2001, she spent sixteen years as a professor of Chemical Engineering at Stanford University. In her research she studies surface and interfacial phenomena, in particular the behavior of complex fluids. Some of her areas of research include colloidal aggregation and ordering, protein lipid interactions and enzymes reactions at surfaces. In 1997 she co-authored the sixth edition of “Physical Chemistry of Surfaces” with Arthur Adamson.

Professor Gast received her BS in Chemical Engineering from the University of Southern California. After earning her Ph.D. in chemical engineering from Princeton University, she received the National Academy of Sciences Award for Initiative in Research, and the Colburn Award of the American Institute of Chemical Engineers. She was elected to the National Academy of Engineering in 2001 and to the American Academy of Arts and Sciences in 2002. It was recently announced she will become the next President of Lehigh University.

LECTURE I: Proteins and Enzymes at Membrane Interfaces

LECTURE II: Chemical Engineering: Evolution and Innovation

NATIONAL COMMITTEE FOR THE RENOVATION AND EXPANSION OF KOFFOLT

The committee had its most recent meeting at the Blackwell on May 25, 2006. Participants included Dick Arnold, Bob Bates, Ron Harris, Kerry Hertenstein, Dennis Hurley, Paul Kienholz, Bill Lowrie, Sonny Saeks, Stuart Cooper, John Corn, Winston Ho, Kurt Koelling, Mike Paulaitis, Jim Rathman, Dave Tomasko, and Jack Zakin. Jay Hughey from CO Architects gave a presentation to the group outlining their work on the feasibility study they are carrying out on options for the future of Koffolt Laboratories. Dave McCarthy, Development Officer from the College of Engineering, spoke to the group on details of the fund raising effort.

FACULTY MEMBERS PROMOTED TO FULL PROFESSOR

Bhavik Bakshi, Kurt Koelling, David Tomasko, and Barbara Wyslouzil were promoted to the rank of Full Professor.

U.S. NEWS & WORLD REPORT

U.S. News & World Report is again naming Ohio State as the state’s best public university, and one of the nation’s best public institutions. The university has moved up one spot to tie for 21st among the nation’s top 50 public universities in the magazine’s special edition on America’s best colleges. The only other Ohio university included in the prestigious listing of top
public universities is Miami University, a two-way tie for 26.

**OHIO STATE’S RESEARCH PROGRAM**

Ohio State University continues to climb in the rankings of the top public research universities in the country, according to newly released federal statistics documenting university research expenditures nationwide. The university moved into ninth place among public universities in fiscal year 2004, up from 10th place the previous year. The 2004 results, the latest available, are based on total research expenditures. Among all research universities, public and private, Ohio State was ranked 15th in 2004, the same as 2003.

Ohio State also leaped 15 places in rankings of total federal research expenditures in 2004 – the largest jump of any top-100 university. With a single year increase of $86 million, bringing the total to $284.6 million, Ohio State now ranks 24th in federally-financed research expenditures, up from 39th in 2003.

**WELCOME NEW PROFESSOR JESSICA WINTER**

This summer the Department welcomes new faculty member Jessica Winter. Jessica graduated from the University of Texas at Austin. Her primary research interest is the exploration of the relationship between nanoparticles and biological elements.

This work is divided into three areas:

- Development of nanoscale neural prosthetic devices
- Patterned chemical and physical cues for improved neural adhesion and synapse formation
- Creation of oriented, nanopatterned surfaces using biological elements

**ChBE GRADUATE PROGRAM**

The 2005-2006 academic year started out with several events in September. The first event was an orientation for incoming graduate students, hosted by the Chemical Engineering Graduate Student Council (CEGC). Another event that took place was the new Teaching Associate orientation. The goal of this orientation is to provide new and old Chemical and Biomolecular Engineering Graduate Teaching Associates information about the TA experience in our department.

**OHIO STATE’S GRADUATION RATE CONTINUES TO CLIMB**

Ohio State’s six-year graduation rate has risen to 68 percent, up from 55 percent just five years ago and 51 percent 10 years ago. The figure is based on the graduation rates of students who entered the university in fall 1999.

Over the past 10 years, Ohio State’s freshman-sophomore retention rate has also risen, from 79 percent to 89.7 percent. The national mean among universities that award Ph.D.s is 77.5 percent, and the mean retention rate for all colleges and universities is 68.3 percent.

**CENTER FOR RESILIENCE**

In May 2005, the College of Engineering announced the formation of the Center for Resilience, an interdisciplinary research center aimed at enhancing the resilience of global industrial systems and the environments in which they operate. Co-directors for the Center are Bhavik Bakshi, Professor of Chemical and Biomolecular Engineering, and Joseph Fiksel, Senior Research Scientist in IWSE. Resilience is defined as the capacity for complex industrial systems to survive, adapt, and grow in the face of turbulent change, including catastrophic events. In a world of increasing complexity and uncertainty, resilience has become a key factor for achieving both business continuity and environmental sustainability.

According to Dean Baeslack, “The Center for Resilience has the potential to integrate and leverage the outstanding resources available at Ohio State and help us to identify new areas where we can make distinctive and valuable contributions to the needs of society.” Bhavik Bakshi is Principal Investigator on recent grants awarded by both EPA and NSF to develop innovative methods for assessing the ecological and economic impacts of emerging technologies, including nanotechnology and alternative fuels.
In October 2005 the Center worked with the Fisher College of Business to organize a symposium on resilience in supply chain management, attracting more than 80 participants.

Additional information about the Center for Resilience can be found at http://www.resilience.osu.edu.

PROFESSOR JIM LEE REPRESENTS THE UNIVERSITY ON CAPITOL HILL

Jim Lee presented Ohio State's Nanoscale Science and Engineering Center and Integrative Graduate Education and Research Traineeship programs on Capitol Hill On June 7, 2006, as part of the 12th Annual Coalition for National Science Funding's Exhibition “Science @ Work.” The programs are sponsored by the National Science Foundation and the exhibition features science, mathematics and engineering research and education projects supported by the NSF and other federal agencies.

PROFESSOR JEFF CHALMERS

The State of Ohio 3rd Frontier’s program has awarded $3.5 million to Professor Jeff Chalmers for a project titled Advanced Biomedical Devices for Disease Diagnosis and Therapy. The award is based on the excellent commercialization potential of his magnetic cell separation technology. The project involves a commercial partner, Flowsort, to continue improving the equipment and arrange for its manufacture, performance and regulatory testing and documentation. Potential applications of this magnetic cell separation technology includes T-cell depletion for mis-matched bone marrow transplantation and for rare cancer cell enrichment procedures for diagnostics applications.

WOMEN IN ENGINEERING

The Women in Engineering Programs and Advocates Network has awarded OSU's Women in Engineering Program with the 2006 Women in Engineering Initiative Award. Glenda LaRue, director of the Ohio State WIE program, accepted the award on Monday, June 12th, in Pittsburgh. The national award is presented to advocacy programs that serve as a model for other WIE programs and actively share experiences and materials with other programs. Noteworthy is the fact that we now have three women faculty in our Department (Ozkan, Wyslouzil and Winter) out of a total of 16, which is the highest percentage (19%) in the College of Engineering. Our undergraduate enrollment of 94 women out of 351 students (27%) is also among the highest of any unit in the College.

NATIONAL ACADEMY OF SCIENCES

Two articles by students and faculty of the Department appeared recently in the prestigious Proceedings of the National Academy of Sciences. Both are representative of the Department's commitment to new directions in the biological sciences. "Generating Highly Ordered DNA Nanostrand Arrays," by Jingjiao Guan and L. James Lee appeared in the December 20, 2005 issue, while the June, 6, 2006 issue carried "Understanding Bistability in Complex Enzyme-Driven Reaction Networks," by Gheorghe Craciun, Yangzhong Tang, and Martin Feinberg. The paper by Guan and Lee was prominently featured in a special "This Week in PNAS" introductory article.

ALUMNUS’ DAUGHTER SHARES HER FATHER’S MEMORIES OF THE DEPARTMENT

With permission from Karla Schwenson Ritter, the following is an excerpt from a letter written regarding some of her father’s memories of the Department.

“I want you to know that as a member of the class of 1923 he had many fond memories of his years at The Ohio State University and of the Chemical Engineering Department in particular. I remember him reminiscing about a field trip he had taken as a student (out east by train) to tour various chemical facilities. I believe he knew Joe Koffolt. After graduating from OSU with a B.S. degree, he worked at Parke Davis and Company (now Pfizer) in Detroit for 40 years, retiring as the Head of the Pill and Tablet Department. Throughout my childhood, I heard many stories of how well his training in chemical engineering had prepared him for his career. He often mentioned how well his department and friends had treated him and proudly retained his 1923 Makio.”
1939

Carl D. Fischer, BChE, President and CEO of the Rinchem Company, was honored on May 5, 2005 to have the new office building of Rinchem Company Inc. in Albuquerque, NM named after him. He and his wife Mary Ann live in Phoenix.

1971

Harry Stebbins, BChE, is a Math Instructor at the University of Cincinnati, Raymond Walters College (Branch Campus). He and his wife Susan live in Cincinnati.

1977

Linnea Sheppard, BS, is the owner of SuitAbility, a business selling sewing patterns for riding apparel and horse equipment, which she founded 20 years ago. She and her husband live in Chico, California.

1994

Joseph M. Rusckak, BS, is Purchasing Manager – Polymers at Goodyear Tire & Rubber. He recently completed a law degree at the University of Akron.

1999

Steven M. Toth, BS, is an Attorney with Kirkland & Ellio LLP in Corporate Law. He and his wife Elizabeth live in Chicago, Illinois.

IN MEMORIAM

Dale B. Baker, BChE 1942, passed away on September 11, 2005. He was the former Director of the Chemical Abstracts Services (CAS) in Columbus, having joined that institution as an office assistant while undertaking studies as a chemical engineering major. After graduation he spent four years working as a supervisory chemist at E.I. du Pont de Nemours & Co., before returning to CAS as an Assistant Editor in 1946.

In a letter supporting Dale’s nomination as Technical Man of the Year (1968) Joe Koffolt commented on the fact that his Master’s thesis, “Punch Card System for the Nomenclature of Industrial Chemistry and Chemical Engineering” was “borrowed by many of the large chemical and oil companies in the United States.” It was during his tenure as Director that CAS evolved from a “thumb and eyeball” abstracting and indexing service to a computer based information database. He was the recipient of numerous awards and honors including honorary doctorates from The Ohio State University (1986) and Franklin University (2005), the ASIS&T Award of Merit, the ACS's Patterson-Crane and Herman Skolnik awards and the ACS Board of Directors Distinguished Service Award. Baker was inducted into the Ohio Science and Technology Hall of Fame in 2003.

CAS President Robert Massie said, "I believe Dale will be remembered especially for three contributions: establishing CAS in its own campus and facilities; moving CAS from a publisher of reference works into the electronic age; and bringing CAS onto the world stage as a leader in scientific information. Dale Baker was a man of big ideas and a personal touch. He did..."
more than anyone to build the organization that is the CAS we know today."

Jefferson C. Cole, BChE 1938, died May 4, 2006, at the Heart Center of Mt. Carmel East Hospital, Columbus, Ohio, after a short illness.

A 1938 graduate of The Ohio State University with a bachelor’s degree in chemical engineering, Mr. Cole lived in Painesville for over 65 years. He was employed by Diamond Alkali and subsidiary companies for 36 years, retiring from Electrode Corporation (now ELTECH Systems) in 1976. For the next 10 years he maintained his own chemical engineering consulting practice. He was a 50 year member of The Electrochemical Society and was awarded the Society’s 68th Honorary Membership in 2001.

Mr. Cole was a member of the United Methodist Church of Painesville for many years and was an associate member of the Lake County Retired Teachers Association. He enjoyed golfing and played for many years in the retiree’s golf league at Painesville Country Club. He enjoyed traveling and over the years visited all 50 states and 41 foreign countries with his wife, Audrey, during their long marriage.

Survivors are his sons, Ronald W. (Jo Ann) of Pickerington, Ohio, and Richard J. (Dee Dee) of Stow, Ohio; grandchildren Beth Ann (Michael) Vasich of Southgate, Michigan, Patrick Cole of Hilliard, Ohio, and Gregory Cole of Pittsburgh, Pennsylvania; and great-grandson Spenser Vasich of Southgate, Michigan.

Richard E. Dudley, BChE 1954, passed away on November 5, 2005. He was retired VP of Amoco Production Company in Houston, Texas.

Robert F. McKibben, BChE 1940, passed away on April 8, 2006. He had been a Lecturer II at Sinclair Community College in Dayton, Ohio.

Albert Schwensen, BChE 1923, passed away on July 17, 1991. Although he lived in Michigan he remained an avid Ohio State fan.

William H. Seaton, PhD 1958, passed away on July 16, 2005. He had been Sr. Research Associate at Tennessee Eastman Company in Kingsport, Tennessee.


A native of Columbus, he was born on November 1, 1912. After graduation from East High School he entered OSU as part of the Freshman Class of 1929. During the ChBE Centennial Celebration, he remembered that, “Both students and faculty had lived through the boom years of the late 20’s and were shocked by the October crash of the stock market and the subsequent losses.” During his senior year in Chemical Engineering Dr. James Withrow advised him to apply for a fellowship offered by the Batelle Memorial Institute, which he received, earning his M.Sc. in 1935. After a short period at the Pittsburgh Plate Glass Company, he joined Battelle in 1936.

During the Second World War, he served as an
instructor at the U.S. Army’s Antiaircraft Artillery School. He received the Army Commendation Ribbon for developing an antiaircraft fire control procedure and had been commissioned a Major at the time of his discharge. He spent the remainder of his professional career at Battelle, rising eventually to the position of Vice President for Administration. During his long association with that institution he authored numerous papers on a wide variety of subjects including work on cracking of gas oils, the effects of controlled atmospheres on alloy and carbon steels, and production methods of tin coatings. He held several patents related to those areas. With his support, a laboratory in the new Chemical Engineering building was funded by Battelle (see photo on the last page of this newsletter). He retired in 1977.

Mr. Slowter was very active in national professional societies, central Ohio civic associations, and Ohio State alumni affairs. In the 1930s he helped to organize the local chapter of the AIChE in Central Ohio. He served as President of the National Society of Professional Engineers in the mid-1970s. His honors included the Order of Civil Merit from the Republic of Korea, a Distinguished Alumnus Award from OSU, the Centennial Achievement Award from OSU, the Meritorious Service Award from OSU, and Man of the Year Award from the Columbus Technical Council. He was recently nominated for the 2006 Lamme Medal, the highest honor that the OSU College of Engineering can confer on one of its graduates.

Karlis Svanks, PhD 1966, passed away September 27, 2005. He was Associate Professor of Chemical Engineering at Ohio State University until his retirement in 1977.

Professor Karlis Svanks received his Bachelor’s and Master’s degrees in chemical engineering from the University of Latvia. After studying in Vienna, he immigrated to the United States in 1950 and was appointed to a research position with the Ohio State Engineering Experiment Station. In 1966 he received his PhD degree in chemical engineering from The Ohio State University with Professor Aldrich Syverson as his research advisor and was appointed to a faculty position in the Department of Chemical Engineering. As a faculty member he served as thesis advisor to 17 MS students. His research focused on coal studies and water resources and water pollution including the Lake Erie Nutrient Control Program. He was highly praised by his colleagues for his extraordinary laboratory skills and his devotion to his work. Well-liked by his faculty colleagues, Professor Svanks was an expert bridge player, an avid fly fisherman, an opera aficionado and an adventurous traveler.
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<td>Edward E. Slowter</td>
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<td>Wallace L. Bostwick, Clarence A. Haverly, Jr., Edward W. Powell</td>
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<td>Kenneth A. Brandstetter, Haskell H. McGriff, Jr.</td>
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<td>William K. Fell, Thurman L. Graves, Lewis C. Hullinger, Robert M. Kell, John M. Kolbas, J. Bruce Martin, Bryce H. McMullen, Aloysius M. Sebian, Donald F. Stauffer, Leroy Streett</td>
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<td>1951</td>
<td>Charles E. Breithaupt, Richard N. Eilerman, John R. Parkinson, David A. Strang, Bruce W. Wilkinson, Robert W. Yarrington, Farjallah (Frederic) Zind</td>
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<td>1952</td>
<td>Donald E. Haupt, Richard F. Hazleton, M. Frank Rummel, Charles J. Schmitz, David G. Stephan</td>
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<td>Gilbert E. Raines</td>
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<td>1955</td>
<td>Wendell B. Hammond, Jr., Phillip J. McAteeer</td>
</tr>
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<td>1956</td>
<td>Robert A. Cody</td>
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1957
Walter R. Andrews, Jr.
A. Leo Carter
Walter A. Flack
Jon D. Helms
Paul J. Kienholz
David P. Marcarus

1958
Edward H. Bollinger
James R. Facer
Barry C. Hartley
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
James O. Albery
James R. Godwin
Ronald M. Kovach
James H. Laughlin
Darryl J. Von Lehmden
Gerald A. Wilcox

1960
Virgil L. Anderson
Carl Brooks, Jr.
Don R. Clay
Guy A. Crossley
Joseph O. Estill
Edgar W. Fasig, Jr.
Orville W. Gruebmeyer, Jr.
George M. Hauswirth
Gordon R. Howard
Marion H. Marshall
Warren E. McAdams
Irwin Weinstock

1961
Paul R. Bigley
Thomas E. Cattarin
Richard B. Cooper
Edward R. Corino
Jack A. Hammond
Ronald D. Harris
Kenneth Negley
Jerry B. Pausch
Larry E. Woodworth

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

1963
Nelson W. Barnhill
Myers G. Hammond
Fred A. Shaffstall
Kay Logan Snider

1964
Wayne O. Betz
Michael B. Cutlip
William R. Ferris
James B. Sapp

1965
Oliver L. Davies
Frederick H. Flor, Jr.
John P. Gegner
Kiu H. Lee
Frederick J. Rerko
Michael C. Royer
Gary L. Street
John A. Weaver

1966
James G. Arnold
William F. Deerhake
Thomas E. Fitz, Sr.
William G. Lowrie
Glenn L. McKee
Jack R. Reese II

1967
F. William Hauschildt
Dennis W. Hurley

1968
Doug E. Smith

1969
Smith E. Howland
M. Anandha Rao
John W. Toussant

1970
David R. Grove
Richard B. Strait
Rosa Uy
Harry Heh Nien Yieh

1971
Juliet Davison Balmer
Wayne R. Fontaine
Kerry G. Hertenstein
William E. Pritchard
Harrison L. Stebbins
Stephen Zakanycz

1972
Michael J. Clark
Hubert M. Litt

1973
John C. Bost
David A. Dargan
John C. Groves
Norman F. Lucas, Jr.
Johnny O. Wright

1974
Steve Irwin
John E. Myers
Michael A. Patterson

1975
John T. Erikson
Stephen L. Grant
1977
Robert L. Collins

1978
Douglas T. Brown
Janet Lyons Inkrott
Michael P. Moore
Elizabeth Ann Stuber
Neil P. Stuber
Thomas E. Winkler

1979
Darice Ann Davis
Tad K. Williams

1980
Matthew J. Galosi
Mark A. George
Gary R. Prok
Pankaj P. Shah
David G. Vutetakis

1981
Nancy Coultrip Dawes
Sunil Satija
James A. Telljohann
H. Charlie Wolf

1982
Debra Denio Funderberg

1983
Cheryl Kennedy Alfieri
Michael B. Begland
Tracy Flora Begland
Thomas D. Burns
Mark D. Dieringer
Edward Flinn
Samuel D. Fink
Carolyn Marie Lin
Jeffrey W. Patterson
Clark B. Wade

1984
John A. Bohlmann
Robert G. Larsen
Gregory M. Masica
George W. Miller

1985
Douglas J. Ball
Roger G. Facer
Timothy A. Johnson
David J. Moonay

1986
Bipender S. Jindal

1987
Jeffrey D. Adams
Karen S. Johnson
D. Brian Noe
Timothy A. Rash
Maureen McClain Visneski

1988
Amy Schmitt Doty
Joseph F. Ennis
M. Alison Jabbour
Paula Fulk Oren
Wes Oren

1989
Stuart F. Doty
Amy Reynolds Marinelli

1990
Frank J. Kizlik
James V. Lombardi
Timothy F. Matheis

1991
Greg E. Grotke

1992
Pamela J. Archer
Julie Vander Meer Joehlin
Scott A. Joehlin

1993
Samir Kumar

1994
Denise Cromes Curry

1996
Beth Gibson

1997
Jeffrey D. Adams
Paul D. Cowan
Theresa Ann Dziewatkoski
Xukun Luo

1998
David M. Bressler
Carrie Elizabeth Chambers
Michael T. Timko
Samir Verma

2000
Amanda Cook Brueggemeier
Shawn B. Brueggemeier
Regis P. Geisler III
Jennifer Kay McKown

2001
Christopher A. Marshall
Marcin Jan Telko
Jason R. Vititoe

2002
Ningning Ma
Lindsay Marie Michalski

FOCBE
Betty Bartels Bates
Audrey Bowser Bazler
Robert S. Brodkey
Suzanne May Brooks
Karen Barber Brown
Stuart L. Cooper
Mark E. Dawes
L.S. Fan
Richard W. Garver
Marilyn Elizabeth George
Kathryn W. Grant
Timothy G. Grasel
Doris Whitman Harris
Beverly Doty Hauschildt
Beatrice Getz Hayes
W.S. Winston Ho
Jo Ann Heywood Hoge
Diand Powers Lau
Bill Lowrie (center) and Bob Bates (right) enjoy some amusing remarks offered by Stuart Cooper at the National Committee for the Renovation and Expansion of Koffolt Laboratories meeting in May.
JACK STEWART RECEIVES DISTINGUISHED ALUMNUS AWARD

Jack C. Stewart received his bachelor’s degree in chemical engineering in 1948 after starting in 1940 and serving four years in the U.S. Army. After graduation he accepted a position as a rubber compounder with Goodyear. In 1970 he accepted a position as a Process Engineer with Standard Oil of Ohio (SOHIO). SOHIO was building a petrochemical plant which was to function primarily as a fertilizer facility, but its products, such as urea, dry ice and liquid ammonium nitrate were also widely used in industry.

By 1974 Stewart was promoted to superintendent of a new urea plant in Blytheville, Arkansas. After a training session in Holland, Stewart supervised the successful plant start-up. Stewart was soon transferred to the Agrico home office in Oklahoma, where he took on many overseas assignments. Upon his return to Tulsa he made a final trip as a consultant for a urea operation in South Korea using the Toyo process. Based on his expert knowledge of all three of the major processes of that time along with his operational experience in both prilling and granulation, he wrote a treatise entitled “The Manufacture and Storage of Urea and Ammonia.”

Stewart later took an executive position with the Lemm Corporation in Tennessee, where he developed a successful procedure for clearance and repair of atmospheric ammonia storage tanks. After retirement from Lemm as one of the nation’s top experts on urea production, he was hired by an American company as a consultant to review the prilling operation of a urea complex in Iraq in the late 80s. He made two trips to Iraq in 1989; the second trip came at an ominous time of great international tension. He was interned by the Iraqis and became one of the Americans held as a “Human Shield.” He was released on December 8, 1989.

Stewart has made exceptional contributions to the industrial production of urea, a major fertilizer and industrial product and his expertise has advanced industrial production technology of this product. He is a loyal Ohio State Alumnus.

PROFESSOR FAN WINS SULLIVANT MEDAL

L.S. Fan was selected as recipient of The Ohio State University’s Joseph Sullivant Medal. This award, given only once every five years, is the highest honor that Ohio State can bestow upon one of its alumni or faculty members for eminent achievement. The award, established in 1920 by Ohio State Professor of Physics Thomas C. Mendenhall, is named for Joseph Sullivant, a member of the university’s first Board of Trustees.

Fan is one of the world’s leading authorities on fluidization and multiphase flow, powder technology, and energy and environmental reaction engineering. He holds 12 patents for his work, which includes inventing processes that enable power plants to burn sulfur-rich coal in a more cost-effective, environmentally sound way.

PROFESSOR FAN WINS E.V. MURPHEE AWARD IN INDUSTRIAL AND ENGINEERING CHEMISTRY

The purpose of the E.V. Murphee Award is to stimulate fundamental research in industrial and engineering chemistry, the development of chemical engineering principles and their application to industrial processes. The award consists of $5,000, a certificate and up to $1,000 for travel expenses to the meeting at which the award will be presented.

PROFESSOR CHALMERS NAMED AS FELLOW OF AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Jeff Chalmers was named as a Fellow for distinguished contributions to bioengineering, especially in identifying and separating cells based on specific immunological markers, and for contributions to the understanding of mass cell cultivation. He has
improved techniques for separating cells in the laboratory—techniques that can be used to sort cells for transplant or to find cancer cells in blood samples. He also has determined the best conditions for growing certain animal cells in the lab.

PROFESSOR JEFF CHALMERS RECEIVES RECOGNITION FROM THE AIChE

Jeff Chalmers received recognition from AIChE, Food, Pharmaceutical and Bioengineering Division, for delivering the 2005 Area 15c Biochemical Engineering Plenary Lecture and for his contributions in cell culture and cell separation engineering.

PROFESSORS CHALMERS AND OZKAN WIN 2006 COLLEGE OF ENGINEERING LUMLEY RESEARCH AWARDS

Jeff Chalmers and Umit Ozkan each received the 2006 Lumley Research Award. These awards go to a select group of outstanding researchers who have shown exceptional activity and success in pursuing new knowledge of a fundamental or applied nature.

PROFESSOR MARTIN FEINBERG DELIVERS AMUNDSON LECTURES

The Amundson Lectures are a set of invited lectures, sponsored by the Departments of Mathematics and Chemical Engineering at the University of Houston, in honor of Neal Amundson, considered by some to be the father of modern chemical reaction engineering. Although there had been annually a single Amundson lecture sponsored by chemical engineering in the past, this was the start of a more ambitious event, consisting of three lectures over three days by a single person. Feinberg was the inaugural lecturer for the new series. The lectures were as follows: “The Strange Relationship of Mathematics and Chemistry;” “Understanding Bistability in Complex Enzyme-Driven Reaction Networks;” and “An Unsolved Problem in Chemical Engineering.”

PROFESSOR OZKAN SERVES ON NATIONAL COAL COUNCIL

Umit Ozkan was invited to serve as a member of the National Coal Council for the 2006-2007 membership team. Chartered in 1984 under the Federal Advisory Committee Act, the Council is one of the Department of Energy’s most important advisory committees. Its purpose is to inform and make recommendations to the Secretary of Energy with respect to any matter relating to coal or the coal industry.

PROFESSOR TOMASKO SELECTED AS OSU-AIC FELLOW

Dave Tomasko was selected to be one of four OSU-AIC Academic Leadership Program Fellows for 2006-2007. The Committee on Institutional Cooperation (CIC) is the academic consortium of the Big Ten Universities and the University of Chicago. The members of the Committee are the chief academic officers of their institutions. Throughout its forty-eight year history of effective voluntary cooperation among these strongly independent institutions, the CIC has proved to be an effective mechanism for enabling its members to accomplish collectively far more than they could accomplish individually.

PRESIDENTIAL FELLOWSHIP AWARD

Jiong Shen won the Presidential Fellowship Award in 2005. This fellowship recognizes the outstanding scholarly accomplishments and potential of graduate students entering the final phase of their dissertation research or terminal degree project. Recipients of this award embody the highest standards of scholarship. He is working on his dissertation entitled "Application of Nanoparticles in Polymeric Foams."

EDWARD F. HAYES AWARD

Paul Matter received the Second Place Award for his presentation at the 2006 Edward F. Hayes Graduate Research Forum. All graduate students in good standing with the Graduate
School and enrolled for Winter and Spring Quarters 2006 in a degree-granting program are eligible to participate. The individual submitting the abstract must be its primary author and the research must both be based on substantive ideas of the graduate student and be a direct product of his or her work. He is working on his dissertation entitled "Electrocatalytic and Fuel Processing Studies for Portable Fuel Cells."

BEST POSTER PAPER AWARD

He Bai won one of the Best Poster Paper Awards at the Annual Meeting of the North American Membrane Society in Chicago (May 14 -17). His poster paper title was "Novel Sulfonated Polymide Copolymers as High Temperature Proton-Exchange Membranes for Fuel Cells".

GRADUATE STUDENTS WIN RAY TRAVEL AWARD

Jin Huang and Jian Zou won the 2006 Ray Travel Award given by the Council of Graduate Students. Unlike other programs that grant travel funds, the Ray Award gives substantial weight to the applicant's service to his/her department, the university, and the surrounding community. Ray Award judges also take into account the academic standing of the applicant, the applicant's professional goals, the nature of the conference being attended, and the applicant's ability to convey the focus of their research to a general audience.

NSF FELLOWSHIP

Imogen Pryce was selected to receive a National Science Foundation (NSF) Graduate Research Fellowship (GRF) award. The Graduate Research Fellowship provides three years of support for graduate study leading to research-based master's or doctoral degrees and is intended for students who are at the early stages of their graduate study. The Graduate Research Fellowship Program (GRFP) invests in graduate education for a cadre of diverse individuals who demonstrate their potential to successfully complete graduate degree programs in disciplines relevant to the mission of the National Science Foundation. Imogen will attend grad school at the California Institute of Technology.

LOWRIE BANQUET AWARDS

AMERICAN INSTITUTE OF CHEMISTS FOUNDATION AWARDS

Outstanding Undergraduate Student Award
Laura Kunes

Laura Kunes receives the Outstanding Undergraduate Student Award from Stuart Cooper while Robert McGrath looks on.
Outstanding Graduate Student Award
Robin Ng

Outstanding Postdoctoral Award
Alissa Park

DOW CHEMICAL
Dow Outstanding Junior Award
Christopher Anderson

AIChE STUDENT AWARD
Central Ohio Section Outstanding Student Award
Liz Curry

Donald F. Othmer AIChE Sophomore Academic Excellence Award
Ryan Lance

DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING AWARDS

Co-Op Award
Duane Gotro

Robin Ng, recipient of the Outstanding Graduate Student Award.

Ray Kim, a recipient of the Outstanding Undergraduate Award for Research Excellence.

Christopher Anderson receives the Dow Outstanding Junior Award from Dave Tomasko.
Diana Snelling, a recipient of the Outstanding Undergraduate Award for Research Excellence.

Outstanding Undergraduate Award for Research Excellence
Ray Kim, Michael Noon, Diana Snelling, Theresa Vonder Haar, Eugenia Wang

Outstanding Graduate Award for Academic Achievement
Yunling Bai, Wu Ge, Jin Huang, Anli Ouyang, Matt Woods, Matt Yung, Lingzhi Zhang

Lingzhi Zhang, a recipient of the Outstanding Graduate Award for Academic Achievement.

Jin Huang, a recipient of the Outstanding Graduate Award for Academic Achievement.

Theresa Vonder Haar, a recipient of the Outstanding Undergraduate Award for Research Excellence.
Professor Umit Ozkan (center) and members of her research group, including award winners Matt Yung (front row, left) and Matt Woods (back row, right).

Professors Marty Feinberg, James Rathman and Bhavik Bakshi.

Jack Zakin and Dave Tomasko enjoy the festivities.
### 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.
This picture, from the 1960s, was taken to commemorate the dedication of the Battelle Memorial Institute Graduate Laboratory, in the new Chemical Engineering building. From left to right: Joe Koffolt, John Clegg, manager of Battelle’s Department of Chemical Engineering, Dr. Harold A. Bolz, Dean of the College of Engineering and Ed Slowter, Battelle’s Vice President for Administration, a distinguished alumnus and long-standing friend of the Department.

If you can supply any pertinent information regarding this photo or would care to contribute something of your own, please send email to Geoff Hulse, hulse.1@osu.edu. Remembrances of faculty from the middle years, such as Web Kay, Waldron Sheets, Ed Smith and Karlis Svanks are especially welcome.