Dear Alumni,

This past year was one of uncommon success for our Department. We have increased enrollments in our sophomore class, our faculty continue to be recognized for their excellence in teaching and our undergraduates continue to receive accolades for their accomplishments. We hired our third woman faculty member, Jessica Winter, a University of Texas graduate who will join us in the Fall of 2006. She is now involved in a postdoctoral experience at Harvard University. We also were successful in hiring an Ohio Eminent Scholar in the person of Michael Paulaitis. Michael comes to us from Johns Hopkins University where he previously served as Chair of the Chemical Engineering Department. Michael is known for his excellent research in molecular thermodynamics and molecular modeling and for his contributions to chemical engineering applications of supercritical fluids. He joins a small number of scholars at Ohio State who have been awarded this highest level of endowed chair distinction. Regarding other faculty recognition, Martin Feinberg received a Distinguished Scholar Award, David Tomasko received Boyer and MacQuigg Awards, James Rathman received a MacQuigg award, Jim Lee received a Lumley Research Award and L. S. Fan was appointed to the Easton Professorship of Engineering.

Jim Lee has had an unbelievably successful year in bringing resources to the Department and Ohio State University. He won an NSF Nanoscale Science and Engineering Center valued at $12.9M for 5 years and also was the leader of an Ohio Third Frontier initiative which resulted in a $22M three year grant in the area of nanostructure as it relates to the manufacture of medical devices and diagnostics. These large grants have participation by many of our own faculty as well as individuals from other engineering departments and other colleges.
These initiatives are designed from the beginning to be highly interdisciplinary and we can be proud that Chemical and Biomolecular Engineering is leading the way in these collaborations.

I am also pleased to note that after a period of 5 years of outstanding service as Associate Dean for Research in the College of Engineering, Umit Ozkan will resume her full time appointment on our faculty on July 1. Umit was supported by the Department at the level of only 20% while on her administrative assignment, but she continued to occasionally teach and to be active in research, maintaining a large well-functioning group involved in catalysis research. It is my observation that her undiminished productivity involved a willingness to work long evening hours at Koffolt after her normal full day at the Dean’s office.

We continue to plan for the renovation and expansion of Koffolt Laboratories. Our national committee met for the third time this May and progress is being made. We will have to raise about $15M of the total cost of somewhere around $60M and we agreed that while this was a stretch, it was doable. We are in the process of expanding the committee from its 7 current members to around 20 and to start holding events around the country to raise the profile of this project.

Finally, I would like to point out that our Department’s endowment has grown to more than $10M due to some recent large contributions. These include the Ohio Board of Regents contribution to the Ohio Eminent Scholar endowment and gifts from the Fenburr and Hammond estates which added to previously established funds. Three other new scholarship endowments were also received: the George S. Bonn, the Fred H. Winterkamp and the Harold W. Almen Scholarship Funds have been established. A good fraction of our endowment is designated for undergraduate scholarships and I am pleased to report that we were able to distribute approximately $125K last year to undergraduates pursuing their studies in our Department. This is up from about $80K the previous year. Since tuition has increased significantly in the past few years, this support, along with University and College financial aid and scholarships, enables many of our students to rely less on part-time work and loans as they progress to their degrees. Thanks to all of our alumni for their support of the Department either by your annual giving contribution or by your establishment of endowment funds.

On behalf of our faculty, staff and students I wish everyone well and encourage you all to stop by and renew your acquaintance with the Department.
Directory

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E-mail che@osu.edu
http://www.chbmeng.ohio-state.edu/

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Edwin Smith 292-6033
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Newsletter Editor
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stoneman.3@csu.edu

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 more average 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.

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Jewels Club Membership

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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)
CBE ALUMNUS IS BOOK AUTHOR

Bruce Martin got his MS in Chemical Engineering in 1947 and his PhD in 1949. He is a Chemical Engineering-turned-freelance writer whose publishing credits include *Ellery Queen Mystery Magazine*, *Dream Weaver*, and *Mystery Readers Journal*. He recently co-authored *Defending Donald Harvey: The Case of America’s Most Notorious Angel-of-Death Serial Killer* with William Whalen, who was Harvey’s attorney. Donald Harvey killed at least 59 people while working in Ohio and Kentucky hospitals. Whalen and Martin tell Harvey’s story in a way that is respectful to his victims, yet delves into Harvey’s inner life humanely. The result is a chilling profile of a twisted mind—and the forces that created it.

FRED H. WINTERKAMP MEMORIES

The Fred H. Winterkamp Memorial Scholarship Fund in Chemical and Biomolecular Engineering was established in 2005 with gifts from the family given in his memory. His sister, Matilda, shared a story with us that we thought you might enjoy.

“Fred Winterkamp came to Ohio State in 1945 and learned that the engineering program would now be five years instead of four, but if you had a high enough grade average, you could take the advanced courses during that fifth year, write your thesis and receive both bachelor and master degrees on the same day. Fred did this under the direction of Dr. Koffolt.

At the time of graduation, Dr. Koffolt sent my parents an ‘out of the blue’ letter lauding them on the outstanding academic and personal achievements of their son. This letter was a letter of great pride to my parents who had immigrated to America and deeply honored higher education. When Fred and I emptied Mother’s desk when she passed away in June, 2000, the letter was still there. Knowing Mother, it had been read many, many times during the past 50 years. I asked Fred to keep it for his children, and when Fred passed away just three years later, I wrote to his children, reminding them to cherish Dr. Koffolt’s letter and keep it for Fred’s grandchildren. It is a wonderful addition to our family archives, and was a never ending source of pride to my parents.”

WILLIAM “BUD” BAESLACK NAMED DEAN

Bud Baeslack was appointed Dean of the College of Engineering effective July 1, 2004. Baeslack is a familiar face at the university, having been an Ohio State faculty member since 1982 before leaving in late 1999 to become Professor and Dean of the School of Engineering at Rensselaer Polytechnic Institute in Troy, New York. He served as Chair of Ohio State’s Department of Welding Engineering from 1991-1994 and as Associate Dean of Research and College Development in the College of Engineering from 1994-1998. In addition, he served as Interim Vice President for Research and President of the Ohio State University Research Foundation from 1998-1999.

Baeslack has an international reputation as an expert on the materials science and engineering aspects of joining advanced materials, including titanium, aluminum and nickel-based alloys, intermetallics and metal-matrix composites.

Dean Baeslack (left) discusses the new building proposal with Ron Harris (right) at a recent meeting of the National Organizing Committee. Professor James Rathman is in the background.
CBE HAS OHIO EMINENT SCHOLAR

This fall the Department proudly announced the appointment of Professor Michael E. Paulaitis as Ohio Eminent Scholar (OES) in Nanobiotechnology and Molecular Self-Assembly. Professor Paulaitis is recognized internationally for his research on hydrophobic effects, self-assembly in aqueous solutions, and the role of hydration in protein folding and protein-protein interactions in solution and at interfaces. His work has led to important advances in molecular modeling of protein separation and purification processes, and more recently, to the application of molecular simulations in the engineering design of molecular scaffolds for nanoscale biomembrane architectures that provide physiologically compatible interfaces between biological and non-biological materials. His most recent research activities in computational biophysics have focused on enhancing high throughput, protein chip-based assays for screening protein-protein interactions with promising applications in medical diagnostics, vaccine development, and in detecting agents of bioterrorism.

Begun in 1983 as part of statewide efforts to make Ohio more competitive in the 21st century economy, the Ohio Board of Regents’ Eminent Scholar program is designed to improve Ohio’s economic development initiatives and has helped to elevate select areas to world-class status.

2005 LOWRIE LECTURER

The Lowrie Lecturer this past April was Dr. Charles A. Eckert. Dr. Eckert has been a teacher and a scholar for more than thirty years. For the last sixteen he has been the J. Erskine Love, Jr., Institute Professor in the School of Chemical and Biomolecular Engineering and Director of the Center for Specialty Separations at Georgia Tech. He also holds an appointment in Chemistry. Previously, he was a faculty member and Department Head at the University of Illinois at Urbana-Champaign. Prof. Eckert is a leader in research linking fundamental chemistry to important applications in such diverse areas as separations, reactions, energy, environmental control, and advanced materials. He has been called the “Father of Supercritical Fluids” for his pioneering work in exploring and applying the novel properties of these unique solvents. He was elected to the National Academy of Engineering in 1983. The first lecture was Tunable Solvents for Sustainable Technology and the second lecture was The Chalk Dot: Creativity and Science. Incidentally, Dr. Eckert served as the PhD Advisor of David Tomasko and Michael Paulaitis.

Dr. Charles A. Eckert receives the 2005 Lowrie Lectureship Award certificate from Stuart Cooper

PROFESSOR L. JAMES LEE RECEIVES $12.9 MILLION FOR NANOTECH CENTER

The National Science Foundation has awarded $12.9 million to Professor L. James Lee and his team of
researchers to support research in nanotechnology, the science of building devices molecule by molecule. The Nanoscale Science and Engineering Center (NSEC) will draw on the expertise of more than 30 faculty members. The Center boasts partners in Ohio industry, as well as prominent institutions around the country and the world.

CENTER FOR MULTIFUNCTIONAL POLYMER NANOMATERIALS AND DEVICES

Research and commercialization partnerships in polymer nanotechnology have been slow to emerge in Ohio. This will be addressed through a multi-institutional, interdisciplinary Center for Multifunctional Polymer Nanomaterials and Devices (CMPND), with a broad-based research, business and outreach program, led by L. James Lee. The Center will be headquartered at The Ohio State University with regional sites at the University of Akron and University of Dayton. Other partners include three additional Ohio universities, more than 50 large and small companies in Ohio, the National Composite Center, and a number of polymer organizations and national labs in Ohio. The Center will develop manufacturing protocols and nanostructures for near-term industrial polymeric nanocomposites, emerging polymer photonic components and devices, and more futuristic biomedical devices and systems with nanoscale functions. The State of Ohio award through the Third Frontier Initiative, Wright Centers of Innovation Program is providing $19.5M in capital funds and $3M in operating funds. In addition, the center is contributing >$29M in cash contributions and nearly $49M of in-kind support from Ohio industry, federal funding agencies, collaborating national labs, and participating universities. The funds will be used over the next three years to purchase new equipment and upgrade facilities. Technical training and outreach programs at the partner universities and with other collaborators will facilitate their realization in commercial products. Finally, an interdisciplinary research and training program will help students and industrial researchers develop skills needed to pursue careers in the rapidly-growing field of nanotechnology and enhance the competitiveness of Ohio industry.

USING COAL TO POWER ALTERNATIVE FUEL VEHICLES

Professor Ozkan and her researchers have developed a chemical catalyst that increases hydrogen production without using a toxic metal common to other catalysts. Though the new catalyst is still in the early stages of testing, it could represent an important step toward using the nation’s coal supply to power alternative fuel vehicles and equipment.

The catalyst uses a combination of iron, aluminum and other metals to harvest hydrogen from carbon monoxide and water. In tests, the catalyst performed up to 25 percent better than a commercially available alternative.

Around the world, researchers are working to develop fuel cells — devices that would use chemical reactions to produce electricity. Cars are a prime target for this technology, and experts believe the type of fuel cell best suited to cars is one that runs on hydrogen.

CBE RESEARCH ADVANCES STEM CELL PRODUCTION

Professor S.T. Yang and doctoral student Anli Ouyang have created a way to mass produce mouse embryonic stem cells in a bioreactor. A bioreactor is a vessel that provides nutrients to the cells within a controlled environment so the cell can grow under optimum conditions. There are many types of bioreactors, and

Grad student Anli Ouyang and Professor S.T. Yang check embryonic stem cell cultures
this particular one is a fibrous bed bioreactor. It is like a
tank with polymer threads, and the stem cells grow
three-dimensionally and by the billions. Embryonic
stem cells are universal cells with the potential to
become all types of cells. The cells become other types
of cells in a process called differentiation. To cure
diseases through cell therapy or cell transplant, very
large quantities of stem cells are needed – a feat
impossible through traditional cell culture methods.

PROFESSOR L.S. FAN HAS ACCEPTED A
VISITING PROFESSOR POSITION

Professor L.S. Fan will serve as the VCIPT (Virtual
Centre for Industrial Process Tomography) Visiting
Professor at the University of Manchester and Leeds
through 2006. The Centre aims to further the
development and industrial application of Process
Tomography by acting as a focal point for current and
future activities in this emerging technology. The
Centre consists of a team of academics together with
industrial member companies. It was initially
established in 1996 with funding from the UK
Government’s Foresight Challenge Projects and
industrial consortium members.

US NEWS AND WORLD REPORT 2005

The US News and World Report listed Ohio State’s
Department of Chemical and Biomolecular Engineering
as ranking #21. The College of Engineering ranked
#28.

RECENT GRADUATES’ COMMENTS ABOUT
THEIR CBE EDUCATION

In an e-mail to Professor
Feinberg, Matt Ziegler, BS
2004, stated “As you know
I’m at USC for grad school
and to my surprise a lot of
the topics we discussed in
your class have come up. I
used my Bessel sheet from a
few years back and it proved
very helpful. I remember
your many speeches about
the quality of education at OSU
and now that I am gone
they were in fact quite true. The program is very strong
at OSU and most definitely underrated.” Robert Large,
BS 2000, wrote to Professor Brodkey, “I am pleased
with the confidence that has been given to my opinion
after such a short time with the company. I believe
much of that comes from my education at OSU. I have
been surprised at all of the positions I have held just
how much worth is given to an OSU degree.”

UNDERGRADUATE ENROLLMENT

In recent years, the Department has had about 200
major and 100 pre-major students at the beginning of
autumn quarter. For the 2005-2006 school year, we are
projecting approximately 240 majors and about 110
pre-majors for the fall. We have a full class of sixty
starting the major by taking ChBE 200, Process
Calculations I, and expect about forty more students
take the second offering of the course in winter quarter.
If we hit this projection, it will be the first time in about
five years that the Department has reached its capacity
limit for an incoming class. About 30% of the
undergraduate students in the Department are female,
while about 15% are ethnic minorities.

CENTENNIAL PRESENTATIONS

All of the recorded presentations from our Centennial
observation have been converted to Quicktime movies
and placed on-line at the following URL:
http://www.chbeng.osu.edu/centennial/
In some cases, there are both PDF documents and
streaming videos of the speaker. There is also a
Quicktime movie version of the history of the
Department that was produced by Geoff Hulse. Please
note that you must install Quicktime for Windows to
run the movies on a PC. You may download it at:

KOFFOLT STATUE

The statue of Joe Koffolt, commissioned by the Class
of 1953, has been sent to the foundry for casting in
bronze. It should be ready for unveiling sometime this
fall. A ceremony will be announced prior to that time.
Alumni Update

1943
Donald E. Morgan, BChE, retired from Olin Corporation. He and his wife Dorothy live in Texas.

1947
Donald F. Stauffer, BChE, retired in 1976 and established International Development Associates, a consulting organization specializing in information services.

1948
William J. Mead, BChE, retired several years ago after a long career in manufacturing and regulatory compliance in the OTC drug and cosmetic industry. He is still actively consulting.

1957
A. Leo Carter, BChE, retired from Kodak as Director of Engineering. Leo resides with his wife Susan in Naples, Florida. Both travel to visit their six children, 14 grandchildren, and five great grandchildren. Leo studies technology, health and finance and leads a “Leaders Sharing Club.” Susan paints artistically. Both enjoy boating and golfing.

1959
James H. Laughlin, BChE, enjoyed a 28-year career with Union Carbide Corporation (now Dow Chemical) and a six-year career with BASF Corporation. In 1998 he started his own company – Laughlin Logistics, Inc., which provides supply chain consulting services, primarily in sales and marketing, for numerous chemical warehousing, packaging, and transportation companies.

1962
Martin F. Cohen, BChE, retired as Business Director of Union Carbide Corporation. He continues to do some consulting work. He is a member of the Board of Directors. NIA CET Chemical Company. in Niagara Falls, New York.

1965
John P. Gegner, BChE, is retired from Chevron and recently began fixing up a 1928 house as an investment.

He attended the AIChE meeting in San Francisco last year and enjoyed meeting Dr. Cooper and seeing classmate Gene Wheeler and Professor Jack Zakin.

1977
Robert L. Collins, BS, is a Manager in the Occupational Health and Safety Division of Clayton Group Services. He is a member of the Joint Industrial Hygiene Ethics and Education Committee. He has been nominated to serve on the Board of the American Board of Industrial Hygiene. He enjoys travel and golf.

1980
Paul T. Dubetz, BS, recently moved from Doha, Qatar to Milan to manage Exxon Mobil’s Liquefied Natural Gas (LNG) Marketing activities in Italy.

1981

1982
Ron Stapleton, BS, is a Recruiter for Polymer Specialties Inc. He enjoys the spoiled lifestyle that comes with being his own boss and working out of his home.

1983
Susan Jezior Slane, BS, is Vice President of Quality and Compliance with Guidant Corporation (a major medical device manufacturer). She loves living in Southern California.

1985
Kevin Byrd, BS, is a Senior Consultant with the Global Infrastructure Services Division of Perot Systems. He and his family live in Texas.

1986
Brian Rice, BS, is a Distinguished Research Engineer in the Research Institute at the University of Dayton. He has spent 18 years conducting research on advanced composites under contract to the U.S. Air Force. Currently he is leading efforts to develop commercially viable nanocomposites.
1987
Craig Hempfling, BS, is in International Development with ACDI/VOCA. He has been working abroad for the last eight years in Bulgaria, Azerbordan, Serbia, Iraq and several others and plans to settle in Bulgaria. He worked for nine years for the U.S. Navy in explosives and chemicals production.

1992
Alvin M. Glover, BS, is the Plant Ergonomics Manager in the Human Resources Division of Goodyear Tire & Rubber Company. He was recently married and moved back to the Columbus area.

John Schneider, BS, is the Marketing Director at Copeland Corporation. He resides in Tipp City, Ohio.

1997
Rob Scheele, BS, is a Financial Analyst at Crown Pacific Partners, L.P. After living around the country for several years, he and his wife recently moved to central Ohio.

Nany Sukarto, BS, is a Chemical Engineering in the Water Treatment Division of Chem Pro Laboratory, Inc. He is working on his Professional Engineer license and lives in California.

2000
Fery Pranadi, BS, is a Process Engineer with Saint-Gobain Cyrstals. He resides in Twinsburg, Ohio.

In Memoriam

Robert W. Conway, BChE 1938, died January 30, 2004. He was a Chemical Engineer for Goodyear Tire & Rubber Company for 35 years. He loved being a Chemical Engineer and attended many reunions.

Napoleon A. Agapetus, PhD 1940, passed away on March 16, 2005. After graduation he was asked by the U.S. Government to not serve directly in the Army (which he wanted to do) during WW II because he was needed by America and M.W. Kellogg to design petroleum plants, chemical plants and airports overseas. He originally worked for M.W. Kellogg Corporation and then joined Texaco Chemical where he was a Project Engineer. He held two patents, one for ethylene glycol cooling towers and another with Loomis for by-product production.

Charles R. Shepherd, BChE 1949, died on September 23, 2004. Services were held at the First United Methodist Church in Anderson, Indiana.

Raymond D. Hammond, BS 1949, died on January 11, 2005. During his lifetime Ray provided Chemical Engineering with generous annual support and hours of service advising undergraduates. He also worked with the University to see that his ultimate gifts could help his most heartfelt needs. He was passionate about helping Bellaire High School and other Belmont County students to follow in the Hammond brothers’ footsteps in becoming Ohio State educated engineers – emphasis of course on those who choose Chemical Engineering major. And when Pegge lost her battle with cancer, Ray became almost as passionate about an endowed research memorial in Pegge’s name at OSU’s James Cancer Center. Ray’s wishes have been fulfilled. Pegge’s memorial is helping to find a cure for cancer. Ray’s scholarship helped recruit three talented high school seniors from Shadyside and St John’s High Schools in Belmont County. Ray designed his endowed scholarship to grow annually so that the College of Engineering will be able to recruit and support increasing numbers of talented young people from his home county.

The following is a letter from Doug Smith, another alumnus and a long-time friend of Ray Hammond:

Ray Hammond was one of those people whom you meet, immediately like, and stay in touch with, no matter where the two of you might go. I feel very lucky to have come across a person like Ray in my lifetime. Ray passed away at his home in Florida on Jan 11, 2005, and for all those people who knew him, or heard his name, here is a look at how he influenced my life at
Ohio State, at PPG and for all the 40 years I have known him.

One sunny fall day in 1965, Ray came to Columbus for a football game — and as was his custom, he had asked the Chemical Engineering Department Chairman, Dr. Joe Koffolt, “Who are the Chem E students I should get to know?” Ray was not an official recruiter, but he had managed over the years to bring a lot of good Chem E’s into PPG. Ray invited my roommate — Dick Furlow and me, a first-year Chem E, to dinner. Ray had worn this great wool sport coat for the game, complete with leather patches on the elbows, and pockets full of everything accessory to go with his classic pipe. Pipes were a big thing with Ray — and he had his own special tobacco blend. The pipe smelled pretty good, but the fun part was watching the ritual Ray went through to fill it up, tamp it down, and light it up. When I joined PPG a few years later I came to appreciate how this ritual played itself out over and over again in his business life.

To give students a glimpse of real life in the chemical industry, Ray was a key speaker in the Chemical Engineering Profession lecture series for seniors. OSU Chem E’s from major corporations would share their experiences in sales, marketing, manufacturing, and R+D. Ray was a hit with our class of 18 seniors with his calm, quiet humor explaining how one goes about selling millions of tons of chlorine to the world. Ray was a member of an elite group of successful executives like Bill Harris, Ed Slowter, Jim Farst, Bill Lowrie, John Salladay, and Larry Green who could excel in any job in any industry. He was very good at describing the big picture. While many students in technical disciplines, like chemical engineering, were oriented toward R+D or manufacturing as the only logical career paths for engineers, he promoted sales as an exciting and challenging career path.

Some 20 years ago, Ray invited me to take his spot in the lecture series. Each spring I made the trip to Columbus, looked out onto the class, and started to tell stories.

After graduation in 1968, I joined PPG Industries and Ray and I began a long relationship of mentor and student. I would come to Ray with some customer crises, or flair up with a supplier, and Ray would quietly take out his pipe, open the can of his special tobacco, fill the pipe, tamp it in and slowly light the pipe. All of this was nerve racking and drove me up a wall. After the long preamble, Ray would usually say “we have an awareness of this issue...” And of course, Ray’s intelligence network had alerted him well in advance to any problem that might affect a PPG customer.

I had always known Ray to be a bachelor — but later in his life he met a bundle of energy called Pegge! They were married and became the ideal combination of calm Ray and firecracker Pegge – plus one small dog with more energy than Pegge. Pegge adopted Ohio State and all the Hammond scholars welcomed her into the family.

Ray had a few very important loves – his wife Pegge, Ohio State, PPG, his golf game, and his passion to help people get started and stay on the right track. He contributed generously each year for Hammond Scholarships starting in 1969 and also to the Aldrich Syverson Scholarship Fund. In the 60s Ray donated funds for the Raymond D. Hammond laboratory in Koffolt Labs, a research lab you can visit today, with a very simple plaque on the door, honoring his gift. In 1994, he set up an endowment to fund undergraduate scholarships and his estate has provided additional funds for future undergraduates. In 1977, Ray received the Meritorious Service Citation for his service to the College of Engineering.

When Ray wrapped up his professional career with PPG, he and Pegge retired to Jacksonville, Florida, to a beautiful home on the ocean. And Ray played golf as much as he wanted and kept up with friends like me with letters and cards.

Ray was a true friend, with a big big heart and a very smart brain. He knew how to get along with people and how to solve the most complex problems – problems that involved people issues. He remained a good friend to OSU and a great friend to me. He is survived by his brother Myers, BS Chem Eng ’63, MS ’63, and his many good friends.

Doug Smith (BS Chem Eng ’68, MS ’69)
2004-2005 Alumni Donors

1934
Edward E. Slowter

Ed Slowter, to the right, still active into his nineties, discusses the new building plans with Bruce Pontius, Assistant VP for Development, at a recent meeting of the National Organizing Committee

1936
Richard A. Miller
Robert N. Miller
Joseph G. Mravec

1937
Fred R. Pullen
Andrew E. Chute
George H. Sheets

1939
Dillard W. Kuhlman
RALPH E. QUIGLEY
Charles A. Rohrmann
Clayton W. Weber

1940
Charles Boardman III
Loren F. Grandey
Arthur G. Mayer
Everett H. Strobel
Walter C. Wenschuh

1941
Thomas F. Lavery
George L. Myers, Jr.
David Thomas

1942
Donald S. Arnold
Randal E. Bailey
R. Richard Midlam
Richard R. Whiston

1943
Melvin F. Browning
Halvor S. Christianson
Dalton F. Drake
R. Marvin Garrett
Leonard A. Harris
James R. Randall
Roy E. Schneider
Carlyle E. Shoemaker
Hong T. Yee
James C. Wynd

1944
Wallace L. Bostwick
Edward W. Powell
Grover C. Strickler, Jr.

1946
Kenneth A. Brandstetter
Haskell H. McGriff, Jr.

1947
Kurt M. Dubowski
William K. Fell
Thurman L. Graves
Lewis C. Hullinger
John M. Kolbas
Herbert G. Krane
J. Bruce Martin
Bryce H. McMullen
Aloisius M. Sebian
Leroy P. Streett

1948
Richard A. Arnold
Earl W. Goodman
William L. Gray
Robert E. Kraus
William J. Mead

1949
Cloyd P. Reeg
R. Ted Scharenberg
George R. Secrist
Jack C. Stewart
Fred M. Warzel

1950
Paul E. Bates
Gordon G. Cross
Edward E. Galloway, Jr.
Raymond D. Hammond
J. Howard Kerstetter, Jr.
Frederick A. Madougall
Theodore A. Rado
Donald R. Roberts
Glen D. Schaaf
Roland I. Spencer

1951
Walter E. Donham
David R. Hamilton III
Verne R. Rinehart
Jean Maurer Scharenberg
Richard L. Scott
Robert E. Thompson
David W. Wilson
Alfred E. Withrow

1952
Richard N. Eierman
James H. Hoorman
Paul J. Kienholz
Rob R. MacGregor
John R. Parkinson
Ralph E. Sieber
David B. Speed
David A. Strang
Bruce W. Wilkinson

Donald E. Haupt
Charles J. Schmitz
David G. Stephan
1953
Robert A. Bates
G. Clyde Bazell
Roger L. Briggs
Louis O. Elsasser
Robert T. Hewitt, Jr.
Wilfred C. Ling
Donald A. MacDougall
Michael A. Tallarico
Kenneth E. Whitehead
James L. Wilson
William H. Wiseman

1954
Gilbert E. Raines

1955
W.B. Hammond, Jr.
Phillip J. McAtee

1956
Robert A. Cody

1957
Walter R. Andrews, Jr
Walter A. Flack.
Jon D. Helms
Paul J. Kienholz
David P. Marcarus

1958
Edward H. Bollinger
James R. Facer
Dan M. Hayes, Jr.
Albert W. Krock
Werner S. Lichtenstein
Valdis E. Petritis
Richard M. Smith
Harold A. Sorgenti
James W. Stark

1959
James O. Albery
James R. Godwin
Ronald M. Kovach
James H. Laughlin
Darryl J. Von Lehmen
Gerald A. Wilcox

1960
Carl Brooks, Jr.
Guy A. Crossley
Edgar W. Fasig, Jr.
Orville W. Gruebmeier, Jr.
George M. Hauswirth
Gordon R. Howard
Marion H. Marshall
Warren E. McAdams
Lee R. Stewart
Russell L. Wilt
Irwin Weinstock

1961
Paul R. Bigley
Richard B. Cooper
Edward R. Corino
Jack A. Hammond
Ronald D. Harris
James H. McMicking
Larry E. Woodworth

1962
David E. Bidstrup
Kenneth J. Fulk
James C. Opatrny
C. David Osbun

1963
Nelson W. Barnhill
Myers G. Hammond
Kay Logan Snider

1964
Wayne O. Betz
Michael B. Cuthip
Michael F. Dague
William R. Ferris
James B. Sapp

1965
Oliver L. Davies
Frederick H. Flor, Jr.
John P. Fundersol
Kim H. Lee
Michael C. Royer
John A. Weaver

1966
William F. Deerhake
Thomas E. Fitz, Sr.
William G. Lowrie
Glenn L. McKee

1967
Dennis W. Hurley
Martin R. Okos
Graham F. Painter, Jr.
Bruce E. Poling

1969
James F. Dietz
Anandha Rao
Steven E. Russell
John W. Toussant

1970
Bradford F. Dunn
David R. Grove
Rosa Uy

1971
Juliet Davison Balmer
Wayne R. Fontaine
Kerry G. Hertenstein
Jeffrey L. Kosch

1973
John C. Bost
John C. Groves
Norman F. Lucas
Johnny O. Wright

1974
Steve Irwin
John E. Myers
Michael A. Patterson

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John T. Erikson

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James M. Delabar
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Robert L. Collins

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Douglas T. Brown
Janet Lyons Inkrott
Thomas E. Winkler

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Darice Ann Davis

1980
Frederick T. Clark
Paul Dubetz
Fred D. Ehrman
Matthew J. Galosi
Gary R. Prok
Daniel R. Schwaegerle
Pankaj P. Shah
Debra Simpson Warfield
Mark R. Warfield

1981
Nancy Coultrip Dawes
Sunil Satija
James A. Telljohann

1982
Victoria M. Green

1983
Cheryl Kennedy Alfieri
Thomas D. Burns
Mark D. Dieringer
Ronald A. Howdyshell
Jeffrey W. Patterson
Clark B. Wade

1984
John A. Bohlmann
Gregory M. Masica
George W. Miller
Jagannadh V. Satyavolu

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

1986
Edward Bochenek
Rajeev V. Gorowara

1987
Jeffrey D. Adams
Denise Davis Burcham
Daniel B. Hartley
Mark Hogan
Martin D. Legg
D. Brian Noe
Maureen McClain Visneski

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

1989
Stuart F. Doty

1990
Craig M. Kehres
James V. Lombardi

1991
Kristan Kissell Latham
M. Anandha Rao
Richard L. Wright

1992
Pamela Jean Archer
Julie Vander Meer Joehlin
Scott A. Joehlin
Matthew Stefanowicz

1993
Frank E. Seipel

1994
Kumar K. Sravana

1995
Jason P. Chamberlain

1996
Beth Gibson
Liping Zhang

1997
Jeffrey D. Adams
Erin Glaser Arlinghaus
Xukun Luo

1998
Erin C. Bennett
David M. Bressler
Steven J. Solomon
Matthew J. Tessman
Michael T. Timko
Samir Verma
Likun Zhang

2000
Kirk D. Card
Regis P. Geisler III

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Shannon Lynae Lashbrook
Marcin J. Telko
Jason R. Vititoe

2002
Ningning Ma

Friends of CBE
Betty Bartels Bates
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Doris Whitman Harris
Jo Ann Heywood Hoge
Linda Irwin
Karl Mandry
Helen Ebright Miller
Awards and Honors

ALUMNI

EVERETT D. REESE MEDAL

William G. “Bill” Lowrie, BC 1966, Chair of The Ohio State University Foundation Board of Directors from 2001-04, was selected to receive the Everett D. Reese Medal, The Ohio State University’s highest honor in recognition of exceptional service in private philanthropy. Established in 1984, the Reese Medal was named in honor of the late Everett D. “Ev” Reese, who exemplified the type of volunteer for whom this award was created. Lowrie has served as Co-Chair of the National Major Gift Committee for Chicago and as Vice Chair of the Foundation Board from 1997 to 2001. He is a member of our Industrial Advisory Committee and served on the “Affirm Thy Friendship” National Campaign Executive Committee. He has agreed to Chair the National Organizing Committee for the Expansion and Renovation of Koffolt Laboratory. In recognition of his efforts on behalf of Ohio State and of his career achievements, Lowrie has also received the Texnikoi Outstanding Alumnus Award, the Distinguished Alumnus Award, the Meritorious Service Award, and the Benjamin G. Lamme Gold Medal from the College of Engineering.

DEAN’S MERITORIOUS SERVICE TO STUDENTS AWARD FOR 2004

Richard H. Brandon, BS 1983, received the Dean’s Meritorious Service to Students Award for 2004 in recognition of his many contributions to the Department. This award was created in 1999 to recognize an individual outside the University community for exemplary service to students of the College of Engineering or the Knowlton School of Architecture. It is not intended to be given every year, but only when someone makes a truly outstanding contribution. Rich was recognized for being a strong promoter of our students within Dow Chemical and for arranging the annual Dow Chemical Outstanding Junior Award program.

DISTINGUISHED ALUMNUS AWARD

Richard A. Arnold, BS 1948, MBA 1950, received the Distinguished Alumnus Award. These awards were established by the faculty of the College of Engineering to recognize distinguished achievement in the part of alumni in the field of engineering or architecture by reason of significant inventions, important research or design, administrative leadership, or genius in production. Nominations are judged by the College Committee on Honorary Degrees and Honors on behalf of the College faculty. Mr. Arnold has continuously made donations to the Department throughout the years and is currently serving on the National Organizing Committee for the Expansion and Renovation of Koffolt Laboratory.

FACULTY

2005 DISTINGUISHED SCHOLAR AWARD

Professor Martin R. Feinberg, Richard M. Morrow Chair in Polymer Engineering, won the 2005 Distinguished Scholar Award. President Holbrook visited the Department on March 3, 2005 to present the award to Professor Feinberg in front of his class. The
category of membership which identifies and honors individuals that have made meaningful impact to the profession. Election as Fellow is recognition of professional attainment and significant accomplishment in engineering. John teaches the Chemical and Biomolecular Engineering design and unit operations summer courses.

CLARA M. & PETER L. SCOTT AWARD

Professor Unit S. Ozkan won the College of Engineering 2004 Clara M. & Peter L. Scott Award. This award, for excellence in engineering education, was established in 1996. The faculty give this award to a senior faculty member who has achieved both national and international status as a leading educator and researcher.

BOYER AWARD FOR EXCELLENCE

Professor David Tomasko received the 2004 College of Engineering Boyer Award for Excellence in Teaching Innovation. This award is presented to a faculty team or to an individual faculty member who has made outstanding contributions to the improvement of undergraduate engineering education. The award recognizes the long-term impact of educational innovation to improve the overall quality of the undergraduate engineering experience.

CHARLES E. MacQUIGG AWARD

Professors David Tomasko and James Rathman received the 2004, and 2005 respectively, College of Engineering Charles Ellison MacQuigg Awards. This award is presented annually to faculty members who have demonstrated, in a superior manner, their interest in and willingness to help students, their interest in improvement of the high reputation of the College of Engineering, and their outstanding teaching ability. Students in the College of Engineering nominate these award recipients.

LUMLEY RESEARCH AWARD

Professor L. James Lee received a 2005 College of Engineering 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.

PROFESSORSHIP

Professor L. S. Fan was appointed to the C. John Easton Professorship of Engineering at Ohio State University.

DISTINGUISHED SPEAKER AWARD

Professor Winston Ho received the Perkin Elmers’ Padmabhusan Professor R. Kumar Chemicon Distinguished Speaker Award for 2004, Indian Institute of Chemical Engineers.

STUDENTS

POST DOCS

Xia Cao won the AIC Outstanding Postdoctoral Award.

GRADUATE STUDENTS

Robin Ng won the Outstanding Graduate Student Award at the 44th Annual Leadership Awards held on May 13, 2005. This award is among the highest conferred to graduate students and recognizes those who have made outstanding contributions to Ohio State.

Ying Zhang and Nandan Ukidwe were awarded 2004 Presidential Fellowships. Hongyan He and Anli Ouyang were awarded 2005 Presidential Fellowships. This fellowship recognizes outstanding scholarship and research ability, plus provides recipients with the opportunity to devote full time to their dissertation research.

Mahesh Iyer won a Graduate Associate Teaching Award. This award is the University’s highest recognition of exceptional teaching provided by graduate students.

Clayt Robinson won the Alumni Grant for Graduate Research and Scholarship. This award recognizes his outstanding research proposal for his PhD dissertation research project.

Paul Matter won the Second Place Award and Erik Holmgren and Matt Yung received the Third Place Award at the 2004 Ohio Air Quality Symposium.

Erik Holmgren won the Winter 2005 Ray Travel Award. The Edward J. Ray Travel Award for Scholarship and Service encourages and enables graduate students across the university to participate in professional conferences, both in their respective fields and in the broader academic community, by reimbursing or partially reimbursing the expenses incurred by graduate students during travel to conferences and meetings to present original research.

Ying Zhang, Shengnian Wang, Anli Ouyang, Pankaj Apte, Yunling Bai, John Kuhn, Jorge Hau, and Xiaoguang Liu won CBE Outstanding Graduate Awards for Academic Achievement.

Matt Yung received the First Place award for his presentation at the 2005 Edward F. Hayes Graduate Research Forum. The Hayes Graduate Research Forum provides a significant professional development experience for OSU graduate students; encourages graduate students to share their research with the academic community; recognizes
outstanding graduate student scholarship within the University; and facilitates exchange between students, faculty, administration, and the public.

Nandan Ukidwe won the AIC Outstanding Graduate Student Award.

UNDERGRADUATE STUDENTS

Imogen Pryce won a 2005 Goldwater Scholarship Award. The Goldwater Scholars were selected on the basis of academic merit from a field of 1,091 mathematics, science and engineering students who were nominated by the faculties of colleges and universities nationwide. Imogen is currently working on an internship in Minnesota this quarter and will be working for Procter and Gamble in Cincinnati this summer. Next year, she plans to complete a senior thesis with Dr. Fan’s group. Her research will be in support of direct carbon fuel cell research. She plans to graduate in Spring 2006, and then obtain a PhD in Chemical Engineering from either MIT or the University of California – Berkeley. She hopes to continue to do research in environmental applications and/or biochemical engineering.

Andrew Maynard won the AIChE Central Ohio Section Outstanding Student Award.

Laurel French won the CBE Co-Op Award.

Nicholas Lorenz won the Dow Outstanding Junior Award.

Brian Chapman won the American Institute of Chemists (AIC) Outstanding Undergraduate Student Award.

Erika Houtz and Amy McCluskey won Women in Engineering (WIE) First-Quarter Certificates of Achievement.

Madeline Allen, Leslie Bailey, Annette Bryan, Lori Engelhardt, Elizabeth Fanton, Katie Martin, Kimberly Miller, Megan Miller, Imogen Pryce, Maren Selbold, Diana Snelling, Eugenia Wang, and Sherry Wunderle won WIE Outstanding Academic Awards.
Angela Sparks (1st Place), Maren Seibold (3rd Place), and Gary Seto (4th Place) won three out of the top four places in the Denman Undergraduate Research forum in the Engineering Category. The Denman Undergraduate Research Forum provides a means for undergraduate students to share their research with members and friends of the OSU community; recognizes the significant contributions to research by OSU undergraduates; and facilitates exchanges between students, faculty and the public. After graduation in June, Angela will be moving to St. Louis to start a process engineering position for Procter and Gamble’s Fabric and Home Care division. Maren will be moving to Seattle to work for Trinity Consultants, an environmental compliance consulting company that specializes in air pollution management. Gary will be moving to Cincinnati to work for Procter and Gamble in their Snacks and Beverages division.

Daron Diener won a WIE Leadership Award.

Osama Hassen, Seth Huggins, Tiffany Mason, and Fatoumata Sylla won the Minority Engineering Program’s (MEP) Academic Status Awards.

Christopher Anderson, Caesar Buic, Louis Davis, C.J. Roebuck, Sylena Smith, and Abdullahi Yusuf won MEP Academic Year Awards.

Justin Montano and Aaron Walker won MEP Academic Distinction Awards.

Patrick Bennett, Megan Boreman, Drew Braden, Dong-Wook Kim, Maren Siebold, Gary Seto, and Angela Sparks won CBE Outstanding Undergraduate Awards for Research Excellence.
**2004-2005 Alumni Donors**

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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 and Biomolecular Engineering.
This picture was taken in the old Unit Ops facility, when it was part of McPherson labs. The exact date and most of the participants (with the exception of Joe Koffolt) are unknown. We are still interested in receiving anecdotal material and/or photos from Alumni to be included in the History of the Department, now being prepared by Geoff Hulse. Some of you have graciously contributed something previously but we are still lacking extensive material, especially from more recent classes. 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. Many of the photos will eventually be posted on-line where they can be reviewed by Alumni, similar to the archive of recent departmental activities, such as banquets, picnics and Unit Ops.