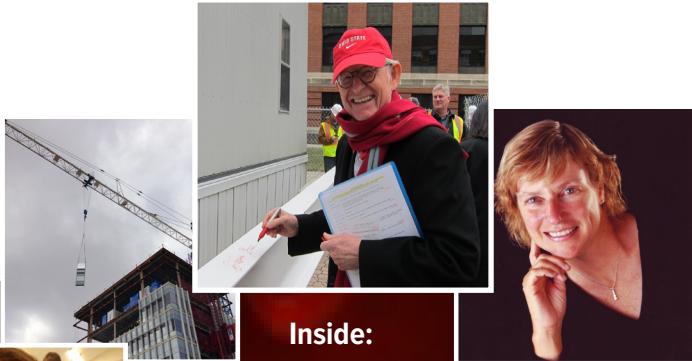


# KOFFOLT NEWS

a publication for alumni and friends of Ohio State ChemE (CBE)



## Inside:

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- Nancy Dawes Joins Council
- Kurt Dubowski Wins Award
- New Faculty Nicholas Brunelli
- Wyslouzil Labs: A Profile
- Students Volunteer
- Davis Gives Lowrie Lectures
- Alumni Volunteers Assist CBE
- ChemE Car Successes



## Letter From The Chair

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Dear Alumni and Friends of the Department:

This summer ended early since the semester system classes begin this “Autumn” during the third week of August. We held our Unit Operations course for 180 students during the past “Maymester” as described on page 14. We also will welcome our 21st faculty member, Nicholas Brunelli, this January after his postdoc at Georgia Tech ends. Other changes in personnel include the retirement of Paul Green, our machinist, and the hiring of Michael Wilson as his replacement.

Operations course for 180 students during the past “Maymester” as described on page 14. We also will welcome our 21st faculty member, Nicholas Brunelli, this January after his postdoc at Georgia Tech ends. Other changes in personnel include the retirement of Paul Green, our machinist, and the hiring of Michael Wilson as his replacement.

Last year we graduated 113 BS students and conferred 13 MS and 12 PhD degrees. Fortunately, as we graduate record numbers of students, the job market is strong, reinforcing the societal trend making engineering and science attractive career options.

The honors our faculty have received are many. L.-S. Fan will receive the Wilhelm Award at the November AIChE meeting; Jessica Winter received the TechColumbus Inventor of the Year Award; and Marty Feinberg gave a prestigious Institute Colloquium lecture in Vienna. Last year our graduate students organized and inaugurated an annual Research Symposium attended by 10 industry representatives, several of whom are CBE alumni. This year, we received support from Dow for the event, and 25 industry representatives have RSVPd so far. The Symposium this year will expand in scope by featuring a keynote from Dow’s **Rich Brandon** ('83 BSChE) and include some undergraduate research.

Fundraising for the new building remains a priority until we reach our goal of \$17.5M. As I write this letter, we are closing in on \$16M and many thanks to all who have contributed. There are still a few “naming opportunities” in the new Koffolt Laboratories, and individuals or groups are encouraged to contact myself or Jessica Schmitt, our new development officer, for details on how to get this done.

Other support, mostly from alumni, resides in endowment funds for undergraduate scholarships. Last year department scholarships totaled \$134,450, benefitting 135 students.

Finally, I would like to salute 93-year-old Kurt Dubowski, who will receive our college’s first-ever Lifetime Achievement Award for Leadership this October. Kurt received a multidisciplinary degree crafted by chairmen Withrow and Koffolt at Ohio State. His chemical engineering PhD included coursework and significant research exposure in chemistry, chemical engineering, and in our medical school. Kurt went on to become world-renowned in the field of forensic toxicology. His accomplishments include working on the analytic chemistry which paved the way for legal acceptance of the breathalyzer test.

Best wishes and Go Bucks!

A handwritten signature in blue ink that reads "Stuart".

Stuart L. Cooper  
Professor and Chair

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### I N T R O D U C I N G



Jessica Schmitt joined CBE as the new development officer in June. Jessica had previously been the development officer with the College of Engineering at the Knowlton School of Architecture and Department of Civil, Environmental, and Geodetic Engineering.

Jessica has been working in development since 2005, first at the University of Dayton and then at Miami University. She joined Ohio State in 2011. Jessica and husband Tom live in Worthington with their baby daughter, Jane.

## Department Chair

Stuart Cooper 292-7907

## Faculty

Aravind Asthagiri	688-8882
Bhavik Bakshi	292-4904
Robert Brodkey*	292-2609
Jeffrey Chalmers	292-2727
L-S. Fan	688-3262
Martin Feinberg	688-4883
Harry Hershey*	888-0812
Lisa Hall	688-1017
Winston Ho	292-9970
Kurt Koelling	292-2256
Isamu Kusaka	688-8302
James Lee	292-2408
Umit Ozkan	292-6623
Andre Palmer	292-6033
Michael Paulaitis	247-8847
James Rathman	292-3760
Carlo Scaccia	688-8254
Thomas Sweeney*	436-9099
David Tomasko	292-4249
Jessica Winter	247-7668
David Wood	292-9636
Barbara Wyslouzil	688-3583
S-T. Yang	292-6611
Jacques Zakin*	688-4113

\* = Emeritus

## Staff

Angela Bennett, Graduate Programs	292-9076
Katie Bush-Glenn, UG Advisor	688-5686
David Cade, Building Coordinator	292-2728
T. William Cory, HR Manager	247-2449
Mike Davis, Systems Specialist	292-2780
Brian Endres, Undergrad Advising	292-6986
Leigh Evrard, Design Engineer	292-2780
Lynn Flanagan, Business Officer	688-3309
Andrew Fry, Systems Manager	292-3589
Geoffrey Hulse, Networking Dir.	292-3589
Sean Russell, Systems Specialist	292-3589
Susan Tesfai, Fiscal Associate	292-5086
Jessica Schmitt, Development	292-5564
Michael Wilson, Machinist	292-2780
Wenda Williamson, PR Coordinator	292-7907

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## **ON THE COVER:**

The scarlet “Block O’s” on the cover are fabricated from polymer (polyethylene glycol) hydrogel containing red, rhodamine dye using micropatterning techniques. The “O’s” are an example of micropatterned drug delivery systems that the laboratories of Jessica Winter are incorporating with microelectrodes for neural stimulation. For more info, visit Winter Labs:  
<http://nanoforneuro.com>

## **BACK COVER:**

CBE’s “Chillidogs” play in the Mega Geeks Summer Softball League.

## Nicholas Brunelli to join faculty in January, 2014

Most seven-year-olds on a car trip during the hot summer of 1989 would be doing almost anything except taking apart and then putting back together an electric screwdriver. But that's **Nick Brunelli**.

"My brother was a role model who enjoyed tinkering. He was also a chemE student," Brunelli said. "I liked math and chemistry, so chemical engineering was a natural sequence -- almost as natural as it is to 'come home' to Ohio State now," he added with a smile.

Yes, that's right. Brunelli, who joins the faculty of the William G. Lowrie Department of Chemical and Biomolecular Engineering this January as an assistant professor, is also a CBE alumnus.

"Ohio State felt like home even when I first visited as a student," Brunelli said. "The slogan 'But for Ohio State' really resonates with me. But for Ohio State, I don't know where I'd be. I've made so many friends and wonderful opportunities have come to me as a result of my connection to this institution."

After graduating from Ohio State with honors in 2004 with an NSF Graduate Fellowship, Brunelli earned his PhD in 2009 with K.P. Giapis and R.C. Flagan at the California Institute of Technology. For his dissertation research, "In-situ Characterization of Plasma-generated Silicon Quantum Dots and Iron Nanoparticles," Nick constructed an aerosol mobility analyzer, pictured below:



**Nick Brunelli** and spouse **Yoshie Narui** visiting Germany.

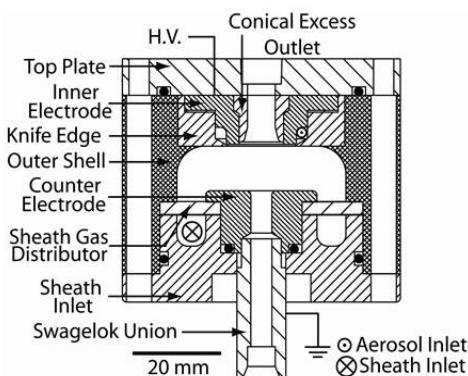
He is currently a postdoctoral fellow at Georgia Institute of Technology, where he has been working with Christopher W. Jones and doing experimental work in heterogeneous or immobilized catalysis.

Nick has been very productive in his early career, publishing four papers on his PhD work and ten from his postdoctoral work. In addition, he has applied for three patents based on his work at Cal Tech and two from his work at Georgia Tech.

When he joins the Ohio State CBE faculty this January, Nick anticipates continuing his research efforts in the area of catalytic material design and discovery.

Of course, he also looks forward to teaching.

### "Coffee Cup" DMA



Brunelli, et al. *Aero. Sci. Tech.*  
2009, 43, 53-59.

"I really like seeing students making the connections -- having them in front of me and seeing them 'get it.' It's very rewarding to see that 'a-ha' moment," he said.

Looking back, Brunelli had his own 'a-ha' realization as a student in Jim Rathman's class.

"When I started at Ohio State, I already had enough credits to almost be a junior. But I had to figure out that even though I was smart, I still needed to learn how to think like an engineer," Nick said.



## Recent Faculty Awards and Achievements



### **Angewandte Chemie Features Work of Asthagiri's Research Lab on Cover**

*Angewandte Chemie*, an international journal with a high impact factor in the field of chemistry, recently featured the work of **ARAVIND ASTHAGIRI**'s lab on its inside back cover page. The work, "Selectivity of CO<sub>2</sub> Reduction on Copper Electrodes: The Role of the Kinetics of Elementary Steps." This research could aid efforts to design new electrocatalysts for CO<sub>2</sub> conversion to fuels through the use of renewable sources of energy.

The U.S. Dept. of Energy featured the lab's infographic, "Electrochemical Conversion of CO<sub>2</sub> to Energy Dense Fuels," on its Energy Frontiers Research webpage.



### **Bakshi Interviewed on BBC's World Business Report**

In May, **BHAVIK BAKSHI** was a guest on the BBC World Service's World Business Report. "India Forges Ahead with Nuclear Power" examined why it has taken India so long to complete a nuclear power plant it started twenty-five years ago, and included commentary from a variety of perspectives. Listen at <http://go.osu.edu/BakshiBBC>.



### **Cooper Wins 2013 ACS Rubber Division Award**

**STUART COOPER** received the American Chemical Society's *Chemistry of Thermoplastic Elastomers Award* from the Rubber Division for his research on the chemistry and microphase morphology of polyurethane multiblock polymers and the use of polyurethanes as biomaterials. Cooper was also named to the National Academies Review Panel on Materials Science and Engineering at the Army Research Laboratory.



### **Fan Receives 2013 AIChE Wilhelm Award**

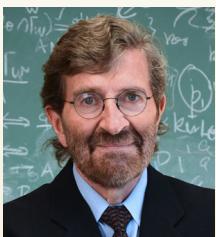
National Academy of Engineering member and Distinguished University Professor **L.-S. FAN**'s ground-breaking work has earned him the AIChE R.H. *Wilhelm Award in Chemical Reaction Engineering*. Fan received the award for his sustained and lasting contributions to multiphase reaction engineering and pioneering work in clean energy technologies, which has been featured in MIT's *Technology Review* online, *The Smithsonian*, and FoxNews.com.

Earlier this spring, Fan and Howard University researcher Jason Matthews teamed up to win a Department of Energy grant to fund a project entitled "Novel Low-Cost Environmentally-Friendly Synthetic Approaches Toward Core-Shell Structured Micro-Particles or Fossil Energy Applications."

Fan will give the 2013 Shinnar Lectureship at City College of New York.



## Recent Faculty Awards and Achievements



### Feinberg Delivers Prestigious Institute Colloquium Lecture

**MARTIN FEINBERG** lectured last May in Vienna at The Institute Colloquium, the principal research seminar at IST Austria where scientists from around the world and across all disciplines of the natural sciences present their latest findings. Feinberg's talk was entitled "Understanding the behavior of complex chemical reaction networks."



### Ozkan and Asthagiri Organize International Catalysis Conference

**UMIT OZKAN** and **ARAVIND ASTHAGIRI** organized the 23rd North American Meeting (NAM) of the Catalysis Society, held in Louisville, KY, June 2-7, 2013. The conference is considered the primary meeting for catalysis worldwide and brings together more than 1200 academic and industrial researchers, scientists, and engineers. More info at: <http://www.nam23.org/index.html>



### Winter Receives Awards for Innovation and Teaching

On the heels of being named *Early Career Innovator of the Year* in The Ohio State University's Innovator of the Year awards last October, **JESSICA WINTER** was named *Inventor of the Year* by TechColumbus in February. Winter is founder and interim CEO of Core Quantum Technologies. She and research scientist Gang Ruan patented a new kind of 'quantum dot' -- a shining nanoparticle used to tag molecules in biomedical testing and cancer research. Also, in April 2013, Winter received the *Harrison Faculty Award for Excellence in Engineering Education* from the College of Engineering.



### Wood Labs Receives DARPA Funding

The intein system developed in **DAVID WOOD**'s labs has become a core component of an \$8M DARPA contract to develop a laptop-sized biopharmaceutical factory that can deliver a single dose of virtually any protein therapeutic in less than 24 hours. If successful, it will enable soldiers in the field to make therapeutics on demand and could lead to paradigm shifts in research, personalized medicine, and biopharmaceutical manufacturing and distribution for civilians. [These views are those of the author and do not reflect the official policy or position of the Department of Defense or the U.S. Government.] The team, led by University of Maryland, Baltimore County's Govind Rao, includes Thermo Scientific Inc., Latham BioPharm Group, and several consultants. Dr. Wood's \$1M subcontract is to develop an intein-based purification platform for the device.



### Yang Honored with Lumley Award for Outstanding Research

The College of Engineering honored **SHANG-TIAN (S.T.) YANG** with a *Lumley Research Award* for his exceptional research activity. The Lumley Research Awards are presented annually to a select group of outstanding researchers in the College of Engineering who are pursuing new knowledge of a fundamental or applied nature.

## Meet the Faculty: Barbara Wyslouzil

### Water and Oil Don't Mix... even in a nanodroplet:

**Wyslouzil lab investigates how multicomponent nanodroplets form, evolve, and organize**

An important industrial challenge that motivates research in Barbara Wyslouzil's lab is the removal of water and hydrocarbons from raw natural gas. If this is done by condensation in a supersonic separator, then the process footprint can be greatly reduced and the use of other chemicals can be eliminated. The industrial partner for this NSF-funded GOALI project, Twister BV (<http://www.twisterbv.com/>), is the world leader in developing and implementing the technology.

As supersonic separators enter service in the field, critical questions remain regarding droplet formation and growth rates in these complex vapor mixtures. In response, students in Barbara Wyslouzil's laboratories are pioneering an integrated experimental approach that includes in-situ small angle neutron scattering (SANS), small angle X-ray scattering (SAXS), tunable diode laser infrared absorption spectroscopy (TDLAS), and static pressure measurements. Since working with high-pressure methane raises significant safety concerns, experiments are conducted using the model system of water and nonane co-condensing in nitrogen carrier gas.

Dr. Wyslouzil's student, Harshad Pathak, recently showed that in this system, particle formation is dominated by the nucleation of one of the two species alone. Unlike all other multicomponent systems they have studied, there is no enhancement of the particle formation rate by adding the second species. In fact, adding the second species systematically reduces the net particle formation rate – an effect that cannot be explained by standard nucleation theories. Furthermore, SAXS measurements made at the Advanced Photon Source, Argonne National Labs clearly show that the nanodroplets that are formed are not well mixed.

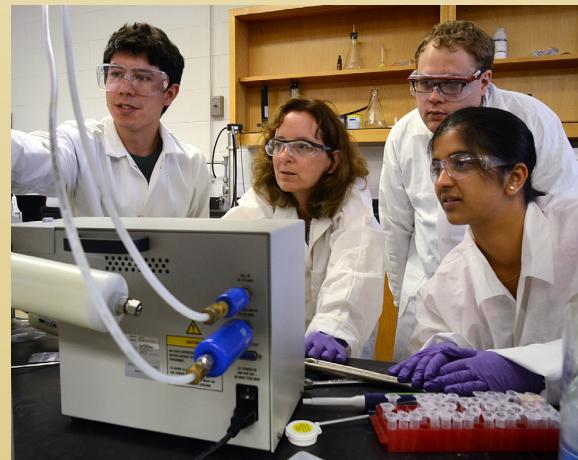
Working with Wyslouzil's long-term collaborator, Dr. Gerald Wilemski at Missouri University of Science and Technology, Harshad found the best fits to his data correspond to droplets that look like a large lens of nonane sitting on a small sphere of water. The presence of a clean water interface may be critical to the removal of water from the vapor phase because water does not like to "wet" nonane.



**Harshad Pathak, Matt Souva, Wyslouzil, Viraj Modak, Tony Duong, Gauri Nabar, Andrew Amaya.**



**Andrew Amaya, Viraj Modak, and Harshad Pathak** conduct pressure trace measurements.



**Tony Duong, Barbara Wyslouzil, Matt Souva, and Gauri Nabar** measure aerosol size distributions.



## Alumni Advisory Board

### Hearing Voices: CBE Receives Input

No, we're not crazy. We're just listening to what members of the CBE Advisory Board have to say.

This spring, those voices were provided by **Terry Chern, Ellen Silva, Nancy Dawes, Rich Brandon, Ron Harris, Larry Latta, Karen Murphy, and Leonore Witche-Lakshmanan** on April 19.

Chair Stuart Cooper first gave good news: enrollment, retention, and the quality of students is rising. ChemE is popular -- graduates get good jobs!

Cooper also relayed that programs across the country are finding federal funding to be increasingly scarce. Less funding impacts the department's ability to recruit PhD students, which can impact rankings.

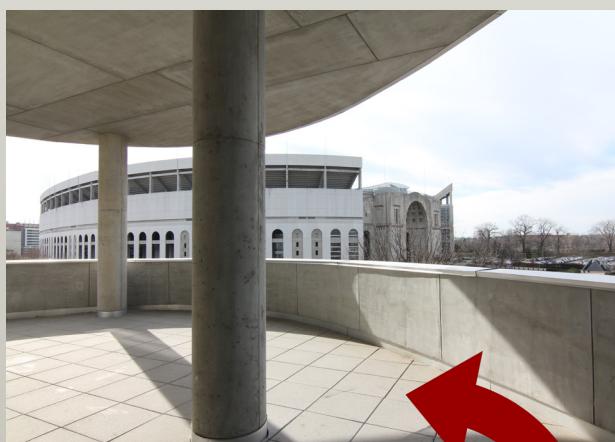
Next, Carlo Scaccia gave an overview of Unit Ops. Nancy Dawes, Karen Murphy, Ellen Silva, and Rich Brandon offered ideas on building communications skills which Scaccia later implemented.

Professors Asthagiri, Hall, Kusaka, and Paulaitis discussed modeling and simulation, which can speed problem-solving.

The day ended with a panel on Women in Engineering with Mary Juhas, associate vice president for gender initiatives, professor Umit Ozkan, and students **Kendel Mesch and Miriam Shakalli Tang**.



Back row: L-R: **Nancy Dawes, Rich Brandon, Ron Harris, Ellen Silva**. Front row: L-R: **Larry Latta, Terry Chern, Karen Murphy, and Leonore C. Witche-Lakshmanan**.



**YOU ARE HERE!**

...or should be...

*Join us on October 25-26, 2013*

### Fall All-Class CBE Alumni Reunion

## YOU ARE INVITED!

The first-ever All-Class CBE Alumni Reunion will be held on the **Ohio State v. Penn State** game weekend Friday and Saturday, October 25-26, 2013.

Grab dinner and share stories with old friends, tour the new Koffolt Labs building, and enjoy a CBE-ONLY *Tailgate on the Terrace* of Knowlton Hall on Saturday!

At 8pm Saturday, those without game tickets can then enjoy live-action big-screen viewing of the game.

This is the perfect opportunity to rekindle those friendships and make new ones. For more info, visit <http://go.osu.edu/reunion> or email [ChemE@osu.edu](mailto:ChemE@osu.edu).

## National Campaign Committee

### Koffolt Labs Campaign Committee Makes Progress

On April 26, 2013, the committee met to review progress in fund raising for the new building. **Bill Lowrie** chaired the meeting, which included an overview from Stuart Cooper and a construction update by University Facilities' Bill Holtz. Construction is on schedule and within budget.

Professor L.-S. Fan presented on the commercialization potential of his chemical looping processes. Matt McNair, chief advancement officer for the College of Engineering, and Jessica Schmitt, the new director of development for CBE, then reviewed strategy for the rest of the campaign.



**SITE TOUR:** Above: **Stuart Cooper, Leigh Evrard (Design Engineer), Dr. David Tomasko, Bill Lowrie, Jim Dietz, Karen Hendricks, Thomas Koffolt, Bob Tatterson, Dennis Hurley**, and Director of Development **Jessica Schmitt** toured the new building under construction.

Pictured at left: **Karen Hendricks, Tom Koffolt, David Tomasko, and Bill Lowrie** enjoy a light moment on the site.

## Houston Alumni Gathering

A few members of the Class of '80 gathered in March for dinner at the beautiful home of Carol and Fred Erhman in Houston. **Paul Dubetz** ('80 BSChE), **Matt Galosi** ('80 BSChE), and **Carol and Fred Erhman** (both Class of '80 BSChE's) enjoyed reminiscing over Carol's gourmet meal. Paul and Fred had a lot to talk about -- they've both had international careers with Exxon!

The group also discussed an upcoming Class of '80 gift for the new building. If you would like to participate, Matt Galosi would love to hear from you! Email: matt.galosi@bp.com.



## San Francisco Event

**Beverly** ('68 BA-History) and **Bill Hauschildt** ('67 BSChE) hosted College of Engineering Dean David Williams and a handful of Engineering and ChemE alums at the Metropolitan Club in San Francisco last June.

The group enjoyed cocktails, hors d'oeuvres, and a great meal (all perfectly planned by Bev), and Dean Williams provided an interesting college update.

Join our **LinkedIn** group, "Ohio State Chemical Engineering Alumni and Friends" to network with other CBE alums!

## Alumni News & Updates...



### Kurt Dubowski Receives First-Ever Lifetime Achievement Award for Leadership from the College of Engineering

*No one has done more to develop, improve, and promote the practice of blood and breath alcohol analysis and testing than **Kurt M. Dubowski**, '49 PhD, '47 MSChE.*

Two-time CBE graduate **Kurt M. Dubowski**'s research and methods for blood- and tissue-alcohol analysis became an international standard and the basis for breath analyzer calibrations and other forensic testing used by the Federal Bureau of Investigation and clinical and public health and forensic laboratories worldwide.

In recognition of his leadership in forensic toxicology and clinical chemistry, Dubowski was named the first-ever recipient of The Ohio State University College of Engineering's *Lifetime Achievement Award for Leadership*.

This is far from the first time that Dubowski's achievements have been lauded, however. In receiving the 2010 American Academy of Forensic Sciences' R.B.H. Gradwohl Medallion -- the most prestigious award in the forensic sciences, and an award that has only been given 12 times since 1978 -- Dubowski was cited as being "easily one of the most inspirational figures to embrace the forensic toxicology and the forensic science communities for the last three score years." And previously, H.R.H. Prince Bertil of Sweden conferred upon him the honor of Widmark Laureate, the highest international honor for outstanding contributions to the advancement of knowledge in the field of alcohol, drugs and traffic safety.

These are but a few of the awards that cap Dubowki's long and pioneering career. Even as an Ohio State ChemE student in the 1940s, Dubowski's trail-blazing nature was evident. Under the guidance of Professors Joe Koffolt, James R. Withrow, and Clayton S. Smith (College of Medicine) Dubowski carried out an interdisciplinary PhD-- highly unusual at that time.

With the research for his dissertation on evaluating methods for measuring ethyl alcohol in biological fluids serving as a basis, Dubowski went on to forge a unique two-pronged career in clinical chemistry and

forensic toxicology. His o-toluidine method for body fluid glucose determination, developed early in his 50+ years on the medical faculty at the University of Oklahoma, became the most-used clinical chemistry procedure worldwide. His 1962 article in Clinical Chemistry describing the method became a "citation classic" that remains one of the most-widely cited publications in the field of clinical chemistry today.

In the mid 70s, Dubowski recognized the need for the documentation of qualifications for forensic scientists working in the legal system, and served a pivotal role in the creation and subsequent leadership of the American Board of Forensic Toxicology.

Earlier, Dubowski had been a charter member of the Department of Health and Human Safety Drug Testing Advisory Board and the seven-member US Public Health Service task force, which in 1957 established the National Poison Control Center network.

Dubowski's expertise has been tapped by such entities as the Executive Office of the President of the United States, the Center for Disease Control, the Food and Drug Administration, the National Institutes of Health, and the National Institute of Justice. He was even named an honorary Texas Ranger for his service to the Rangers.

Dubowski is the George Lynn Cross Distinguished Professor Emeritus of Medicine at the University of Oklahoma.

Dubowski's research laid the foundation for "Breathalyzer" testing worldwide.



## ...Alumni News & Updates



**NANCY C. DAWES** ('81 BSChE) was appointed to the College of Engineering External Advisory Council last March. Nancy is a Victor Mills Society research fellow at Procter & Gamble, where she built up a successful facial cream product line. She was named a Distinguished Alumna of the

College of Engineering last fall and is an emerita of the CBE Alumni Advisory Board.



**THOMAS D. BURNS** ('83 BSChE, '85 MSChE), R&D director at Dow Chemical's Photovoltaics Films & Adhesives, received the 2013 Dean's Meritorious Service to Students Award for dedication in supporting learning and career opportunities for CBE students.



**JAMES F. DIETZ** ('69 BSChE, '70 MSChE), retired EVP and COO of the Potash Corporation, received the 2013 College of Engineering Meritorious Service Award for sustained and extraordinary services that have had a significant, lasting impact on the COE.



**PAUL T. DUBETZ** ('80 BSChE), VP of ExxonMobil Iraq's Commercial Division, was honored with the 2013 College of Engineering Distinguished Alumnus Award, which recognizes outstanding professional achievement. When stateside, he lives in Aurora, OH.

**RAYMOND W. GARRIS** ('47 BSChE, '49 MSChE) of Tamarac, FL, was an agricultural/petrochemical advisor to the Ministry of Petroleum and Natural Resources during the Saudi Arabian Industrialization Program. He wrote, "My wife Sara really liked Dr. Koffolt and I think she increased his respect for me!"

"We will never forget Joe, but we should also remember Dr. Withrow. He and Joe were direct opposites but they worked well together. Dr. Withrow put the chemistry in chemical engineering and Dr. Koffolt put the engineering in. My favorite Withrow story: He was consulting on a gas explosion and fire downtown. The janitor said, 'I was crawling around using a candle for light and the flame kept going up and down, up and down.' Dr.

Withrow told him, 'Young man, that day the pearly gates were opening and closing, opening and closing for you.' One of our professors referred to Dr. Withrow, who was a Sunday school teacher, as 'The great moral force on the campus.'

"Looking back, I'm amazed at some of the things I was able to do. Yea Ohio! Go CBE!"

**BARRY C. HARTLEY** ('58 BSChE) of Rochester, NY wrote to let us know that several family members are also Buckeyes: spouse Mary Lou Seemann Hartley studied education at Ohio State, as well as daughter Amy Hartley Frahm ('85 BS Dairy Science), and son **Daniel Hartley** ('87 BSChE). The Hartleys also have a son, Bruce Hartley, and a daughter, Laura Hartley Yox. "I was just a hard-working engineer that kept the Eastman Kodak Company afloat," Barry wrote. Now retired, Barry keeps active with genealogy, stamp collecting, and serving on the finance committee of the Lakeside Presbyterian Church, where he has been a member for the past 50 years. He hopes to attend the dedication of the new Koffolt Laboratories building in 2015, which would make him one of the few who also attended the 1959 dedication.



**GARY O. SPITZNOGLE** ('98 BSChE) was promoted on May 1 to vice president of regulatory and finance for AEP Ohio, which serves over 1.5 million customers in Ohio and northern West Virginia. He is responsible for providing organizational leadership on AEP Ohio's financial and regulatory strategic plans, including financial investments. He has more than 15 years of experience at AEP, where he began in 1997 as an environmental technician.



**ROBERT L. TATTERSON** ('87 BSChE) was named vice president and chief technology officer of Sealed Air Corporation in June, 2013. Bob will be responsible for technology strategy and innovation focused on driving growth. He joins Sealed Air from Brady Corporation, where he was corporate vice president of R&D and chief technology officer. Dr. Tatterson holds a PhD and MS in chemical engineering from the University of Michigan. He is a member of the CBE Alumni Advisory Board.

## IN MEMORIUM



## 1930s

**Colonel Carl S. Casto**, '38 BSChE, of Apollo Beach, FL, died on 2/12/2012. He retired from Robot Golf, Inc.

**Daniel W. Duncan**, '38 MSChE, '41 PhD, died on 11/24/2011 in Falmouth, MA.

**Dillard Woodson Kuhlman**, '39 BSChE, died on 11/18/2012 in Nokomis, FL.

## 1940s

**A. Andrew Beeson**, '47 BSChE, of Lake Wales, FL, died on 11/20/2011.



**Lt. Colonel Charles H. Boardman III**, '40 BSChE, '41 MSChE, died 5/13/2013 in Cocoa Beach, FL. He had seen active duty in WWII and the Korean War, receiving decorations such as the Bronze Star and United Nations Service Medal. He retired from Pan Am.

**Bernard Francis Flood**, '48 BSChE, of Parkersburg, WV, passed away on 6/09/2012.

**Earl William Goodman**, '48 BSChE, from Nekoosa, WI, died on 3/20/2013.

**Herbert Lincoln Green**, '48 MSChE, died on 2/7/2012. He was from Northbrook, IL.

**Emerson Morgan Jones**, '49 BSChE, of Kingwood, TX, passed away on 10/26/2012.

**John V. Lawler**, '45 BSChE, died in Arlington, VA, on 6/14/2013.

**F. Robert Mayforth**, '48 PhD, died on 4/9/2012 in Wilmington, DE.

**Haskell Hawes McGriff**, '46 BSChE, of Charleston, WV, died on 11/27/2012.

**Charles Joseph Schmidt**, '43 BSChE, of Hockessin, DE, died on 10/8/2011.

**Edwin Earle Smith**, '44 BSChE, '47 MSChE, '49 PhD ChE, of Columbus, OH, died on 6/16/2013. Dr. Smith was a professor emeritus of the Department of Chemical Engineering who was known for his research in fire, oil, traffic paints, and acid mine drainage.

**Leroy P. Streett**, '47 BSChE, of Columbus, OH, died on 5/2/2013.

**E. H. Strobel**, '40 BSChE, died on 5/2/2013 in North Palm Beach, FL.

**Walter C. Wendschuh**, '40 BSChE, of Avon, OH, died on 3/27/2012.

## 1950s

**Charles Lane Benford**, '55 BSChE, '55 MSChE, of Toledo, OH, passed away 1/8/2013.

**Daren Eugene Calvin**, '50 BSChE, died 2/15/2013 in Vinton, OH.

**Norval Paul Davis**, '54 BSChE, of Palm Desert, CA, died 2/12/2013.

**Dean Wilmer Fisher**, '59 BSChE, '59 MSChE, of Hayward, CA, died 9/26/2012.

**William Howe Graves**, '50BSChE, '50 MSChE, of Fort Collins, CO, passed away 4/22/2013.

**Ellis Leroy Hawk**, '50 BSChE, '50 MSChE, of Lancaster, PA, passed away 11/2/2012.

**Jacob Carl Hill**, '56 MSChE, of Oakdale, CA, died 9/12/2012.

**James Howard Hoorman**, '51 BSChE, died 2/10/2012. He was from Dallas, TX.

**Gilbert Ellis Raines**, '54 BSChE, '54 MS BSChE, '66 PhD, of Naples, FL, passed away 6/10/2012.

**Frank Albert Simko**, '55 BSChE, from Sarasota, FL, died 9/25/2012.

**Francis Eugene Smith**, '59 BSChE, of Westerville, OH, died 4/6/2013.

**Richard Millar Smith**, '58 BSChE, died 3/13/2013 in Newark, DE.

**Geoffrey R. Snelling**, '53 MSChE, of Wilmington, DE, died 11/8/2011.

**Robert E. Thompson**, '50 BSChE, died 2/28/2013 in Findley, OH.

**Robert Bruce Weiser**, '51 BSChE, '51 MSChE, '54 PhD, of Parkersburg, WV, passed away 2/26/2012.

## 1960s

**Robert M. Dipert**, '67 MSChE, of Dayton, OH; 12/3/2012.

**Paul Richard Michl**, '68 BSChE, of Delmar, NY, died 4/1/2012.

**Edward Leroy White**, '60 BSChE, of Fredericksburg, TX, died 3/2/2012.

**Edward Theodore Woodruff**, '62 BSChE, '62 MSChE, of Brooksville, FL, passed away 3/26/2012.

## 1970s

**Edward Wilson Claugus**, '81 BSChE, died on 6/23/2013.

He owned Claugus Capital Management LLC and Poodle Air LLC and lived in Incline Village, NV.

**Clyde Ralph Garrett, Jr.** '64 BS, '73 BSChE, of Vallejo, CA, passed away on 12/4/2011. He had served on the CBE Advisory Board and was a simulations engineer for Chevron Chemical Company's Ortho Division.

## 1980s



**Li-Kow Simon Chang** '83 PhD, passed away 10/21/2012 in Gahanna, OH. He was a professor who had worked for GET and the Department of Defense. He is survived by wife Justine.

**Eleanor Syverson**, widow of former department chair Aldrich (Al) Syverson, passed away 2/18/2013 at 97.

## Cal-Tech's Mark Davis Gives 2013 Lowrie Lectures



### Mark E. Davis

is the Warren and Katherine Schlinger Professor of Chemical Engineering at the California Institute of Technology and a member of the Experimental Therapeutics Program of the Comprehensive Cancer Center at the City of Hope.

He is the recipient of numerous awards, including the Colburn and Professional Progress Awards from the AIChE and the Ipatieff, Langmuir, Murphree and Gaden Prizes from the ACS.

Professor Davis was the first engineer to win the NSF Alan T. Waterman Award. He was elected to the National Academy of Engineering in 1997, the National Academy of Sciences in 2006, and the Institute of Medicine of the National Academies in 2011.

Professor Davis' research efforts involve materials synthesis in two general areas: namely, zeolites and other solids that can be used for molecular recognition and catalysis, and polymers for the delivery of a broad range of therapeutics. He is the founder of Insert Therapeutics Inc., a company that was focused on the use of cyclodextrin-containing polymers for drug delivery applications, and Calando Pharmaceuticals Inc., a company that created the first RNAi therapeutic to reach the clinic for treating cancer. He has been a member of the scientific advisory boards of Symyx (Nasdaq: SMMX) and Alnylam (Nasdaq: ALNY).

Dr. Davis has over 375 scientific publications, two textbooks and over 50 patents. In addition, he is a founding editor of CaTTech and has been an associate editor of Chemistry of Materials and the AIChE Journal.

He has achieved All American Status for Masters Track and Field in the 400, 200 and 100 Meter Dashes and is currently the 400 Meter Dash World Champion for men between the ages of 55-59.

### Lecture 1: Fighting Cancer with Nanoparticle Medicines: The Nanoscale Matters!

Papyrus writings from 1600-1500 BC describe cancer and attempts at its treatment. Centuries later, cancer remains a devastating disease. Given the long history of difficulties in developing cancer therapies, why is there now excitement about nanoparticle medicine (nanomedicines) for fighting cancer? In this lecture, Davis presented the current understandings of why these engineered, nanosized medicines (that are highly multifunctional chemical systems) have the potential to provide "game changing" ways to treat cancer.

### Lecture 2: The Rise and Realization of "Molecular" Chemical Engineering

Over the past few decades, chemical engineering has embraced revolutions in experimental and mathematical methodologies employed to probe and understand atomic/molecular-level phenomena. Molecular-level chemical engineering has now been integrated into a number of commercial sectors, and has provided job diversity. Davis discussed the need for chemical engineering education to evolve to meet increased job diversity.



Professor **Mark Davis** receives the Lowrie Lecture Award from Chairman **Stuart Cooper**.

## Unit Ops: Changes Afoot!

As any CBE grad knows, Unit Ops is always intense. But complete it in just four weeks? You bet! Due to the conversion to semesters this year, Dr. Scaccia and his students had no choice. To top it off, this was the largest enrollment in the history of Unit Ops: 180 students.

To make it work, Dr. Scaccia gave the lectures during Spring Semester. The experiments took place in the four-week “Maymester.” The class was divided into four sessions. A new in-depth experiment was performed every four days by each team. Twelve experiments were performed from Monday to Saturday. Each team of four students performed four experiments in-depth and conducted eight additional abbreviated experiments.

Operating six days a week presented new challenges. In the middle of the course, the RO unit broke down, and graduate TA **Michael Coolbaugh** acted quickly to resolve the problem. With the help of a couple of vendors and Leigh Evrard, normal operations resumed with only one day down.

Another change to Unit Ops was the implementation of suggestions from the CBE Alumni Advisory Board. Scaccia tracked and evaluated students’ responses to their team interaction experience, and made available to students the software used in Statistical Experimental Design.



The first “Maymester” Unit Ops class of 2013. Photo by Geoff Hulse.

## ChemE Car Places Second in AIChE Cincinnati Regionals

Ready, set... and just get close to the finish line!

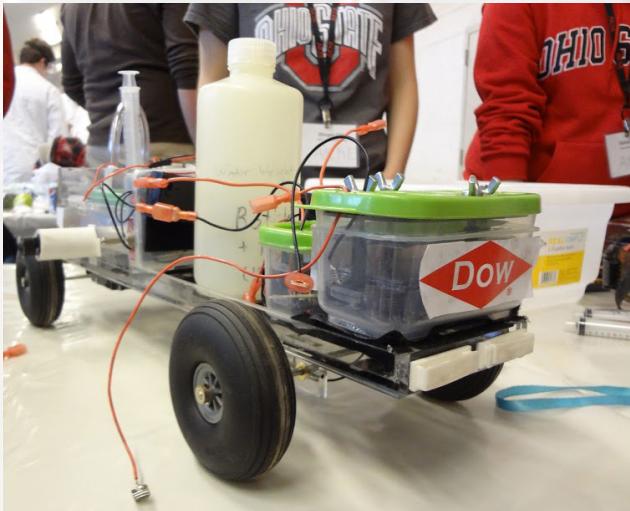
That's the challenge of the AIChE Chem-E Car competition., in which students from across the country compete to design a "car" powered solely by chemical (non-combustion) means.

Cars carry a certain amount of water and travel up to 100 feet. The twist is, students don't know until they arrive how much water their cars will transport, or how far they are required to go.

In the past few years, Ohio State's team has performed quite well at both regional and national meets. This year, the car was powered by fuel cells (zinc chloride batteries) and used a reaction between sodium thiosulfate and hydrogen chloride as the stopping mechanism. The reaction produces a cloudy solution which cuts the transmission of the laser beam, which in turn stops the car.

The team had a best mark of stopping within 2.18 meters of the finish line -- not bad, considering that stopping within ten feet is considered a very good result. Find out who else our CBE team beat by watching a two-minute video on our YouTube channel (<http://go.osu.edu/CBEyoutube>)!

The CBE team's finish earned them another invitation to the national competition this fall.



The Dow-Sponsored 2013 CBE ChemE Car

## 2012-13 Student Facts and Stats

*Undergrads:* 804 (29.1 % women, 9.8% minority)  
(135 students got departmental scholarships)

*Grad Students:* 88 PhDs, 4 Master's. (30% women, 10.9% ethnic minority).

Number of degrees conferred in 2012-13:  
113 Bachelor's; 13 Master's; and 12 PhD's.

Average freshman ACT Composite Score: 30.2  
(National Average: 21; 28-36 represents the top 10%).

Percentage in Honors Programs: 36.5%

In the last ten years, 11 students have received major national awards, including seven National Science Foundation graduate fellowships, three Barry M. Goldwater scholarships, and one Morris K. Udall scholarship.

## Movie Night at The Gateway

Twenty or so students "Headed Into Darkness" one night last May and had the theater all to themselves while watching the new Star Trek movie. Fans of the original Star Trek TV series were humored by the characterization cliches -- and by the anomaly of a single tribble! The event was organized by **Brian Belcik**.



**Viraj Modak, Suman Patankar (CBE); Dhruvit Sutaria.**

## Student Honors

### SPECIAL RECOGNITION

**Samuel Bayham:** Second place, poster competition, 2nd International Conference on Chemical Looping, Darmstadt, Germany. Also received the Outstanding TA Award for Autumn 2012.

**Elena Chung:** Elected one of ten Council of Graduate Student Senators serving on The Ohio State University Senate. A CBE first!

**Geof Grubb:** Honorable mention, student paper competition, AIChE Sustainable Engineering Forum.

**Rebecca Hanes:** Second place, student paper competition, International Symposium for Sustainable Systems and Technology (ISSST), the premier conference for research related to sustainability.

**Kalpesh Mahajan:** First place, Fisher College of Business 2012 Business Plan Competition (project: Core Quantum Technologies).

**Viraj Modak:** U.S. Department of Energy travel grant to attend 31st Annual AAAR Conference, Minneapolis, MN.

**Harshad Pathak:** American Association for Aerosol Research (AAAR) travel grant to attend 31st Annual AAAR Conference, Minneapolis, MN.

**Nihar Phalak:** Career Development Grant, Council of Graduate Students.

**Deepika Singh:** Kokes Graduate Student Award, 23rd North American Meeting (NAM) of the Catalysis Society.

**Ilgaz Soykal:** AIChE Catalysis and Reaction Engineering Division travel grant. First place in student presentation in Microscopy Society of the Ohio River Valley (MSORV). Kokes Graduate Student Award, 23rd North American Meeting (NAM) of the Catalysis Society.

**Xinmei Wang:** Poster award from the OSU James Comprehensive Cancer Center, 4th Annual Scientific Meeting.

**Kun Zhang:** Ray Travel Award, Council of Graduate Students.

**Lin Zhao:** North American Membrane Society (NAMS) travel grant and Outstanding Poster Paper Award, Boise, ID.

### AMERICAN INSTITUTE OF CHEMISTS FOUNDATION AWARDS

AIC Outstanding Undergraduate Student Award -

**Jesiah King** (Advisor: Ozkan)

AIC Outstanding Graduate Student Award -

**Kartik Ramasubramanian** (Advisor: Ho)

AIC Outstanding Postdoctoral Award -

**Dawei Wang** (Advisor: Fan)

### AIChE STUDENT AWARDS

AIChE Central Ohio Section Outstanding Student Award -

**Kendel Mesch**

Donald F. Othmer AIChE Sophomore Academic Excellence Award -

**Alexander Claytor**

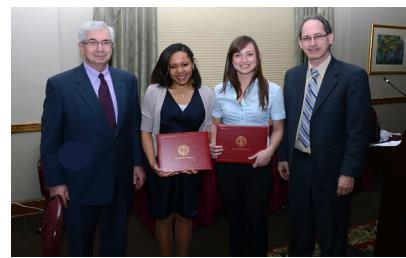
### DENMAN UNDERGRADUATE RESEARCH FORUM AWARDS

**Angela Chen** (Advisor: Wood): Second place.

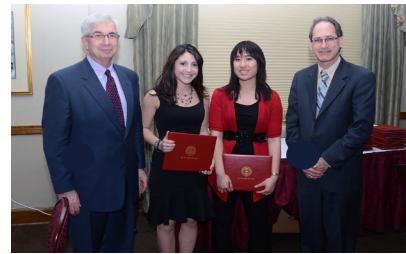
**Michelle Di Biase** (Advisor: Koelling): Third place.



Chair **Stuart Cooper** (L) and **Jack Zakin** (R) present AIC Foundation Awards to **Dawei Wang, Jesiah King, Kartik Ramasubramanian**. Photos by Geoff Hulse.



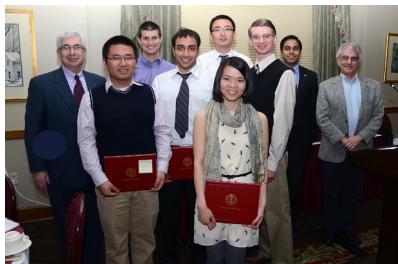
**Stuart Cooper** (L) and **David Tomasko** (R) present the AIChE Student Awards to **Alexandra Claytor** and **Kendel Mesch**.



**Stuart Cooper** (L) and **David Tomasko** (R) with **Michelle Di Biase** and **Angela Chen**, Denman Research Forum awardees.

### OSU NATIONAL SOCIETY FOR BLACK ENGINEERS HONORED AT NATIONAL CONFERENCE

CBE student **Rayvion Sanford**, public relations chair of the Ohio State chapter of the National Society for Black Engineers, reported that the Ohio State NSBE chapter was recognized with a regional Chapter of the Year award, as well as the Exxon Mobil Impact Award. In addition, the group was nominated for the National Most Distinguished Chapter of the Year, and CBE student **Alex Claytor** received a General Mills scholarship.



## CBE DEPARTMENT AWARDS & HONORS

### Undergraduate Researchers:

(Left): **Dr. Cooper**; **Pengpeng Qi** (Fan); **Robert W. Pitman** (Wood); **Goutham Putta** (Palmer); **Hao Chi** (Fan); **Hongyang Pi** (Kolb); **Nikita Sergeevich Kevlich** (Winter); **Prathamesh Sadanand Karandikar** (Tomasko); **Dr. Chalmers**. Not pictured: **Cornelius Cilliers** (Fan); **Lianwan Huang** (Fan); **Hui Peng** (Fan).

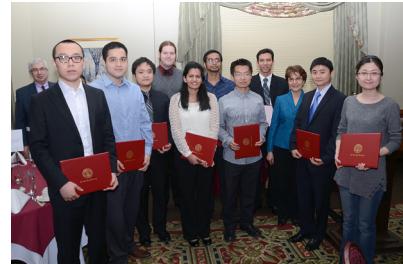


### Outstanding Undergraduate Award for Research Excellence:

(Left): **Dr. Cooper**; **Xiaoxiao Yu** (Fan); **Joseph A. Gauthier** (Koelling); **Kristi Olesik** (Winter); **Jonathan (Jack) T. Davis** (Ozkan); **Andrew R. Motz** (Yang); **Yuanpeng Ding** (Fan); **Dr. Winter**. Not pictured: **Joseph M. Ionni** (Zakin); **Timothy Kremer** (Koelling).

### Outstanding Graduate Academic Achievement Award:

(Right): **Dr. Cooper**; **Lin Zhao** (Ho); **Andrew Tong** (Fan); **Zhongqiang Wang** (Yang); **Daniel Knight** (Feinberg); **Deepika Singh** (Ozkan); **Harshad Pathak** (Wyslouzil); **Siwei Luo** (Fan); **Dr. Ozkan**; **Yinming Du** (Yang); **Meimei Lu** (Yang). Not pictured: **Ehab Ammar** (Yang); **Tony Duong** (Wyslouzil); **Yanan Zhao** (Ho).



### Outstanding Post-Doc Award for Research Excellence:

(Left): **Dr. Cooper**; **Liang Zeng** (Fan); **Zhenchao Sun** (Fan); **Juan Tian** (Ozkan); **Ziaowa Nie** (Asthagiri). Not pictured: **Kwang Joo Kwak** (Lee); **Dr. Lee**.

## WYSLOUZIL STUDENTS' RESEARCH FEATURED IN CHEMISTRY WORLD MAGAZINE

The Royal Society of Chemistry recently featured the research of **Viraj Modak** and **Harshad Pathak** from Barbara Wyslouzil's research group in *Chemistry World*. The work provides new evidence in the controversial issue of surface freezing in alkane nanodroplets and is significant because for small droplets, or systems with free surfaces such as those in atmospheric aerosols, the freezing mechanism of hydrocarbons is highly debated. Until now, experimental techniques have not been able to distinguish between surface and volume freezing. Read the full article at <http://go.osu.edu/chemworld>. [V P Modak et al, Physical Chemistry Chemical Physics, 2013, DOI: 10.1039/c3cp44490b]

**AICHE STUDENT CHAPTER OFFICERS**  
 President: **Chris Schneider**;  
 Vice President: **Kunal Parikh**;  
 Treasurer: **Peter Nguyen**;  
 Secretary: **Sweety Sharma**;  
 Co-Social Chairs: **Katie Zorc**,  
**Brian Richards**;  
 Co-Membership Chairs: **Nicole Bayona**, **Ryan Clark**;  
 Co-Philanthropy Chairs: **Jackie Pittman**, **Scott Shaheen**

## CHEM E CAR OFFICERS

President: **Kendel Mesch**;  
 Treasurer: **Nikita Kevlich**;  
 Power Team Leader: **Frank Sweterlitsch** (pictured on cover);  
 Timing Mechanism Team Leader:  
**Nick Deerhake**;  
 Safety Coordinator: **Morgan Doty**;  
 Team Members: **Billy Blincoe**, **Me-hak Chawla**, **Angela Chen**, **Gar Wai Guan**, **Michael Louis**, **Derek Mason**, **Gabrielle Vasquez**, **Ziwei Wang**

## CEGC OFFICERS

(Chemical Engineering Graduate Council)  
 Academic Officer: **Michael Coolbaugh**  
 Facilities Officer: **Matt Galloovic**  
 Recruitment Officer: **Miriam Shakalli**  
 Business Officer: **Viraj Modak**  
 Social Officer: **Brian Belcik**

## Students Gain by Giving

Last June, students got their hands dirty - not in the lab, but in the kitchen of the Ronald McDonald House of Central Ohio, where they cooked lunch for ~ 60 people.

"It was fun," **Viraj Modak** said. "They were appreciative because we were volunteers."

But why volunteer, when life in CBE is already so busy?

Viraj explained. "By getting involved in other things and helping people, I can forget about my research for at least a few moments."

Viraj sees another benefit. "If there are two equally capable job candidates, they'll go for the one with leadership skills," he said.

Students helped at the Mid-Ohio Food Bank also. **Matt Galloovic** coordinated.

*Right: Tony Duong prepares a salad. Front cover: Jenny Dorcea.* Photos by Alex Roth.



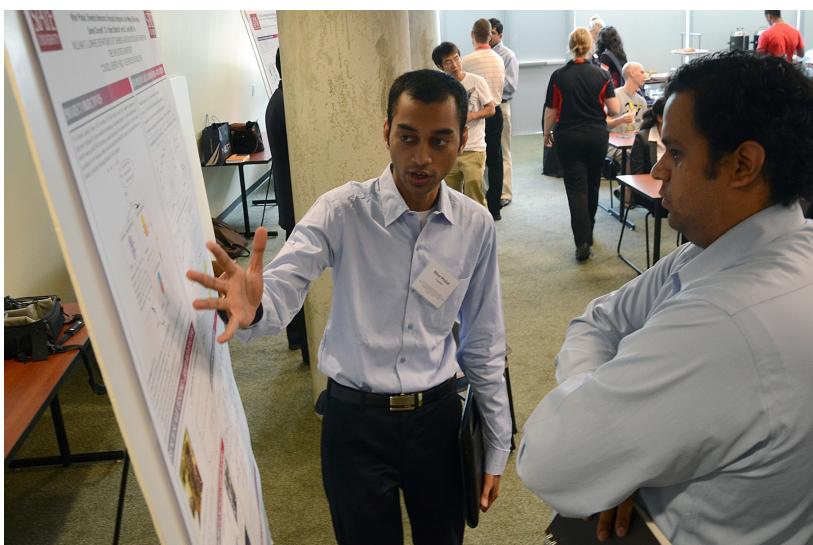
## 2nd Annual Graduate Research Symposium Set for September 16

Last year's First Annual Graduate Research Symposium was a great success.

Attendee **Elaina Carpino** ('99 BSChE, '10 MBA; Owens Corning) said, "*I found the symposium to be of tremendous value, especially from a research and potential talent perspective. I hope this becomes a future, annual event.*"

Dow Chemical's Global Supply Chain Director **Rich Brandon** ('83 BSChE) is this year's keynote speaker!

More info: <http://go.osu.edu/symposium>



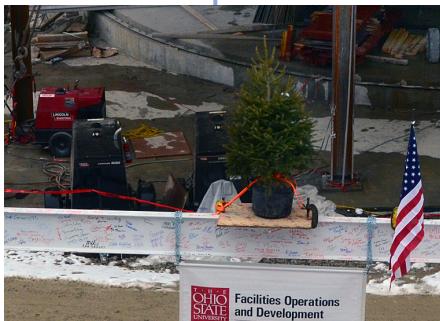
**Nihar Phalak** ('12 PhD), last year's organizer, reviews calcium looping principles with Dr. Aravind Asthagiri at the 2012 Inaugral Graduate Research Symposium.

## Topping-Off Ceremony for New Koffolt Labs Building

The new Koffolt Labs building passed another milestone on March 6 when the final beam of the infrastructure was put in place. It is traditional to mark this event with a “beam-signing” and “topping off” ceremony. President Gee and many other faculty, CBE students, alumni, and staff turned out to sign the beam before it was hoisted at President Gee’s signal. Balancing an evergreen tree on the beam at the time of hoisting is a Danish tradition that is said to bring good luck, success, warm relationships, and good will to the building. We certainly hope that will be true for our new home!



**Jim Dietz ('69, '70) signs the beam.**



*Left:* An evergreen tree is placed on the beam.

*Right:* Professors Bob Brodkey and Jeff Chalmers await President Gee’s signal: “On the count of three!”



*Left:* Professors Jessica Winter, Lisa Hall, and Bob Brodkey react as the beam lifts off.

*Right:* The beam is raised.



*Left:* Professors Jacques Zakin, Marty Feinberg, and Winston Ho track the beam’s progress through the sky.

*Right:* The infrastructure of our new Koffolt Labs is now done! Come and see the progress!



Visit the CBE Construction Cams! <http://go.osu.edu/CBEconstructioncams>



## REMEMBER OLD KOFFOLT LABS?

It was once a sparkling new facility in which “Joe’s Jewels” shone like diamonds. But Old Koffolt Labs can no longer sufficiently support the people and needs of CBE.

Many alumni from every corner of the globe are rising to the challenge of providing the support needed to complete the new building, which is within budget and scheduled to open in October, 2014.

By supporting the new building, you - our treasured alumni and friends - have demonstrated your belief in the value of the education you received here, as well as the value and benefit CBE will bring to future generations. The building will stand as a collective vision and true testament reflecting the many commitments that have been made to the future of CBE.

In addition to the numerous individuals who have come forth to make their contribution, groups of alumni have also been organizing class gifts in the footsteps of the Class of ‘61, who raised over \$170,000 to name a conference room.

We’re also proud of the fact that, in an act of commitment and dedication to CBE, our own faculty rallied last year to collectively name a conference room.

Other gifts are being finalized that will bring us closer to our goal of \$17.5M, with nearly \$16M raised so far.

**We’re close to the finish line, but the last mile is the hardest!** We’d like as many alumni as possible to remember their past and to be part of the future of CBE through a gift of any size. Your fellow and future alumni will appreciate it!



Last spring, Linda Blake Wing, the daughter of **Kennard Loren Wing** ('49 PhD ChE; pictured at left), donated her father's books to the department. Dr. Cooper referred to the collection of early chemical engineering textbooks, handbooks, and monographs as a “treasure trove.”

“I especially like the series by Hougen and Watson,” Dr. Cooper said. “When I began my career at Wisconsin, Olaf Hougen was the emeritus chair and a grand old man of Chemical Engineering. He was also a ‘professional Norwegian.’ These books bring back memories.” Thank you, Linda!

# BUT FOR OHIO STATE

Responsibility, discipline, confidence. Teamwork, work ethic, integrity. Former students have used these words to describe what the William G. Lowrie “CBE Experience” means to them.

## *What does it mean to you?*

Thanks to the work of our students, faculty, and alumni, CBE is a top program that attracts acclaimed faculty and talented, highly motivated students. If you are a CBE alumnus, you likely recognize yourself in that description. You loved a challenge, and you had a dream. You wanted to solve problems and make a difference in the world. And like as not, you did just that; perhaps with a bit of help along the way.

But for Ohio State, none of this might have happened. It all starts with the education and characteristics students gain here. You can't put a price on Responsibility, Discipline, or Confidence. You can't quantify the value of Teamwork, a strong Work Ethic, or Integrity. And yet, this is what your philanthropy “buys” when you help the people and programs of CBE. We invite you to join in this noble cause. Take a moment to imagine what it would be like to help launch the careers of deserving students, or to see firsthand the societal impact of our faculty's amazing research. Every gift matters, especially as we rise to the challenge of finalizing funding for the new Koffolt Laboratories.

Many of you have risen to that challenge, while others have yet to participate. Building the new Koffolt Labs is truly a team effort and an opportunity that we believe every alumnus and alumna can feel good about. If you choose to give, it might feel even better than good. It might feel great, because you could literally make a “concrete” impact on the future of CBE!! Naming a space in the new building may not be as unreachable as you think. By joining collectively with members of your class -- or by spreading your individual gift out over five years -- you can make a larger impact with greater ease.

If you have any thoughts about possibly making a gift, Jessica Schmitt, director of development, would love to talk with you. She is reachable at 614-292-5564 or schmitt.174@osu.edu. Thank you.

I would like to add my support to the CBE in the amount of  \$50  \$100  \$250  \$500  \$1000  \$2500  \$\_\_\_\_\_.

My gift is for:  Koffolt Labs New Building 310614  General Fund 302693  Jewels Club 310335.

Charge:  Visa  Mastercard  Discover  AmEx

Name \_\_\_\_\_

Name on Card \_\_\_\_\_

Signature (Required) \_\_\_\_\_

Account Number \_\_\_\_\_

Home Address \_\_\_\_\_

Expiration Date \_\_\_\_\_

By Check: Payable to The Ohio State University Foundation, P.O. Box 710811, Columbus, OH 43271-0811.

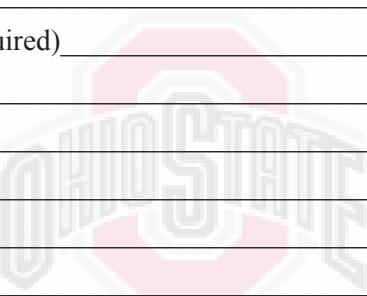
Online: [giveto.osu.edu/makeagift](http://giveto.osu.edu/makeagift)

My company makes matching gifts. (To see if it does, click on “Matching Gifts” at the above website.)

Phone \_\_\_\_\_

Cell Phone \_\_\_\_\_

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# Share your news!

Name \_\_\_\_\_ Year(s)/Degree(s)/Major(s)\_\_\_\_\_

Title/Employer \_\_\_\_\_ Year retired \_\_\_\_\_

Spouse \_\_\_\_\_ Year(s)/Degree(s)/Major(s)\_\_\_\_\_

Title/Employer \_\_\_\_\_ Year retired \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Children (if OSU grads, please include year/degree) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Your Career Highlights** (History, News, Special Achievements, Awards) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Professional Boards \_\_\_\_\_

Social Clubs/Organizations \_\_\_\_\_

Non-profit/Community work \_\_\_\_\_

Personal Interests/Activities of Interest \_\_\_\_\_

**CBE: What does it mean to YOU? Favorite memories etc.** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please return in the provided envelope. Feel free to attach additional pages.

## Blast from the Past



**Kennard L. Wing** ('44 PhD ChE; on right) and two friends discuss molecular modeling in February, 1944.

Thanks to Linda Wing Blake for sending us this interesting “Blast from the Past!”

If this photo brings back any memories you'd like to share with your fellow alums, or if you have a photo of your own that you'd like to see in this publication, please get in touch with Wenda Williamson at (614) 292-7907 or email [ChemE@osu.edu](mailto:ChemE@osu.edu).

## Get ChENNECTED!

**Website:** [cbe.osu.edu](http://cbe.osu.edu)

**LinkedIn Group:** [go.osu.edu/CBElinkedin](http://go.osu.edu/CBElinkedin)  
“Ohio State Chemical Engineering Alumni and Friends”

**Facebook:** [go.osu.edu/CBEfacebook](http://go.osu.edu/CBEfacebook)

**Twitter:** [go.osu.edu/CBEtwitter](http://go.osu.edu/CBEtwitter)

**YouTube:** [go.osu.edu/CBEyoutube](http://go.osu.edu/CBEyoutube)

The CBE softball team, “Chillidogs,” playing in the 2013 Mega Geeks Summer Softball League:

Left: **Jeevan Baretto** rips the ball.

Center: **Clayton Deighan** catches a flyball.

Right: Co-captain **Matt Gallovin** (shortstop) throws a runner out of first base.



William G. Lowrie Department of Chemical and Biomolecular Engineering

Koffolt Laboratories 140 W. 19th Avenue Columbus, OH 43210-1180