

2009 Year in Pictures

SCHOOL OF CHEMICAL ENGINEERING

PURDUE
UNIVERSITY™

RESEARCH FRONTIERS

CLEAN ENERGY

SOLAR
BIOFUELS
HYDROGEN
FUEL CELLS
COAL
SUSTAINABILITY

MEDICAL ENGINEERING

METABOLIC
ENGINEERING
BIOLOGICAL &
TISSUE
ENGINEERING
DRUG DELIVERY
BIOMIMETIC
MATERIALS

ChE FUNDAMENTALS

CATALYSIS & REACTION
ENGINEERING
FLUID MECHANICS &
INTERFACIAL
PHENOMENA
MASS TRANSFER &
SEPARATIONS
MOLECULAR &
NANOSCALE MODELING
POLYMERS & MATERIALS
PRODUCT &
PROCESS SYSTEMS
ENGINEERING

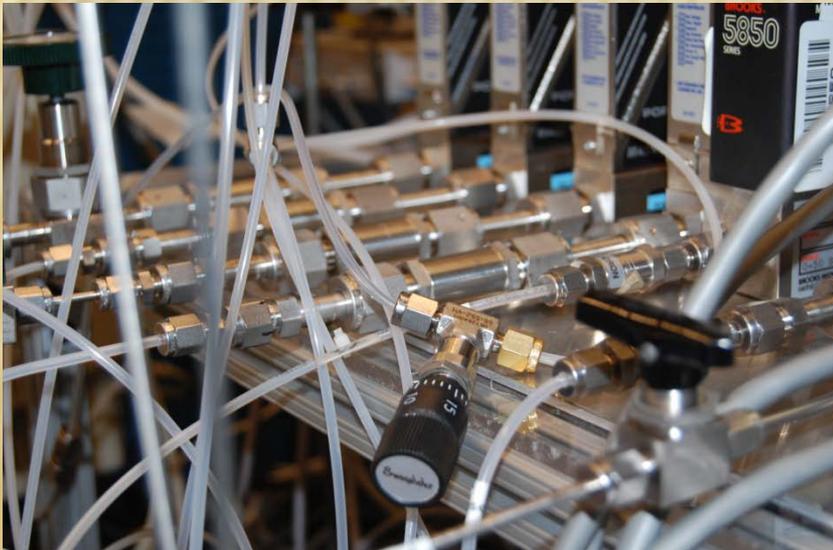
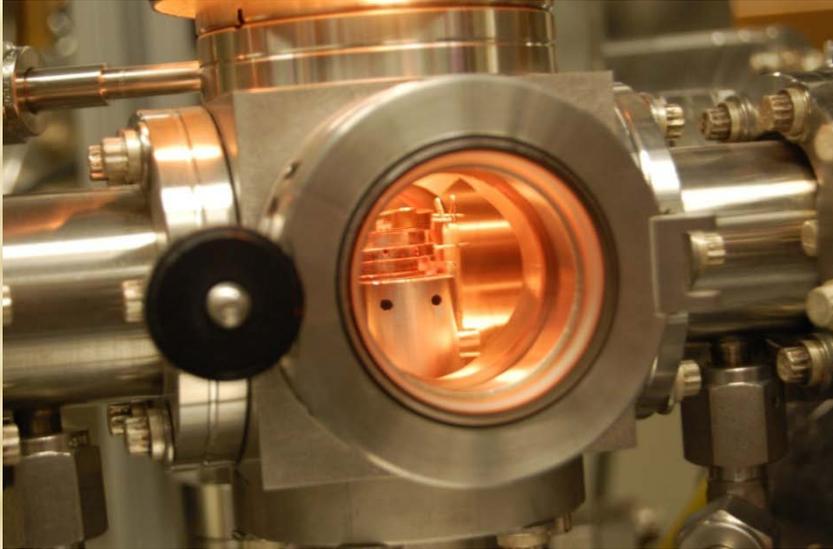
CHEMICAL SYNTHESIS

ADVANCED MATERIALS
CATALYST DESIGN
HYDRODEOXYGENATION
CHEMICAL SENSORS
BIOCATALYSIS

PHARMACEUTICAL ENGINEERING

PARTICLE DESIGN
& PROCESSING
INFORMATICS &
COMPLEX SYSTEMS
SENSING TECHNOLOGY
MULTISCALE MODELING
INTERFACIAL SCIENCE

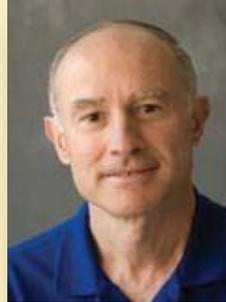
RESEARCH SNAPSHOTS



CHEMICAL ENGINEERING FACULTY



Rakesh Agrawal
ScD, MIT, 1980



Osman Basaran
PhD, Minnesota, 1984



Chelsey D. Baertsch
PhD, UC - Berkeley, 2001



Stephen P. Beaudoin,
PhD, NC State, 1995



James M. Caruthers
ScD, MIT, 1977



Raj Chakrabarti
PhD, Princeton, 2002



David S. Corti
PhD, Princeton, 1997



W. Nicholas Delgass
PhD, Stanford, 1969



Elias I. Franses
PhD, Minnesota, 1979



Robert E. Hannemann
MD, Indiana, 1959

CHEMICAL ENGINEERING FACULTY



Michael T. Harris
PhD, Tenn.- Knoxville, 1992



Hugh W. Hillhouse
PhD, Massachusetts, 2000



R. Neal Houze
PhD, Houston, 1968



Sangtae Kim
PhD, Princeton, 1983



Julie Liu
PhD, CalTech, 2006



James D. Litster
PhD, Queensland, 1985



John A. Morgan
PhD, Rice, 1999



Joseph F. Pekny
PhD, Carnegie Mellon, 1989



R. Byron Pipes,
PhD, Texas-Arlington, 1972



Doraiswami Ramkrishna
PhD, Minnesota, 1965

CHEMICAL ENGINEERING FACULTY



Gintaras V. Reklaitis,
PhD, Stanford, 1969



Fabio H. Ribeiro
PhD, Stanford, 1989



Kendall T. Thomson
PhD, Minnesota, 1999



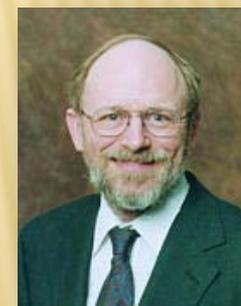
Arvind Varma
PhD, Minnesota, 1972



Venkat
Venkatasubramanian
PhD, Cornell, 1984



Nien-Hwa Linda Wang
PhD, Minnesota, 1978



Phillip C. Wankat
PhD, Princeton, 1970



You-Yeon Won
PhD, Minnesota, 2000



Yue Wu
PhD, Harvard, 2006



Chongli Yuan
PhD, Cornell, 2007

EMERITUS FACULTY



Lyle F. Albright
PhD, Michigan, 1950



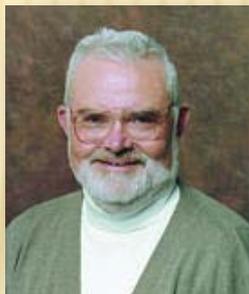
Ronald P. Andres
PhD, Princeton, 1962



Kwang-Chu Chao
PhD, Wisconsin, 1956



Robert A. Greenkorn
PhD, Wisconsin, 1957



Robert G. Squires
PhD, Michigan, 1963



George T. Tsao
PhD, Michigan, 1960

RESEARCH FACULTY



Nancy W. Y. Ho
PhD, Purdue, 1968

AROUND FORNEY HALL



RAJ CHAKRABARTI -ASSISTANT PROFESSOR

FALL 2009



- ✘ AB, Harvard College (magna cum laude with highest honors), 1996
- ✘ PhD, Princeton University, 2002
- ✘ NIH Post Doctoral Fellow MIT, Columbia University, 2003-2006
- ✘ Research Scholar, Princeton University, 2007-2009

- ✘ *Research Interests:* Quantum Control and Information Theory, Theoretical and Computational Biophysics, Applications to Energy Sciences

YUE WU - ASSISTANT PROFESSOR

FALL 2009



- ✘ B.S. Chemistry, 2001, University of Science and Technology of China (USTC), Hefei, P. R. China.
- ✘ Ph.D. Chemistry, 2006, Harvard University
- ✘ Miller Research Fellow in Chemistry, 08/2006 - 07/2009, University of California - Berkeley

- ✘ *Research Interests:* Synthesis, Characterization, Assembly of Nanostructured Materials and their Potential Applications in Nanoscale Devices and Sustainable Energy

CHONGLI YUAN - ASSISTANT PROFESSOR

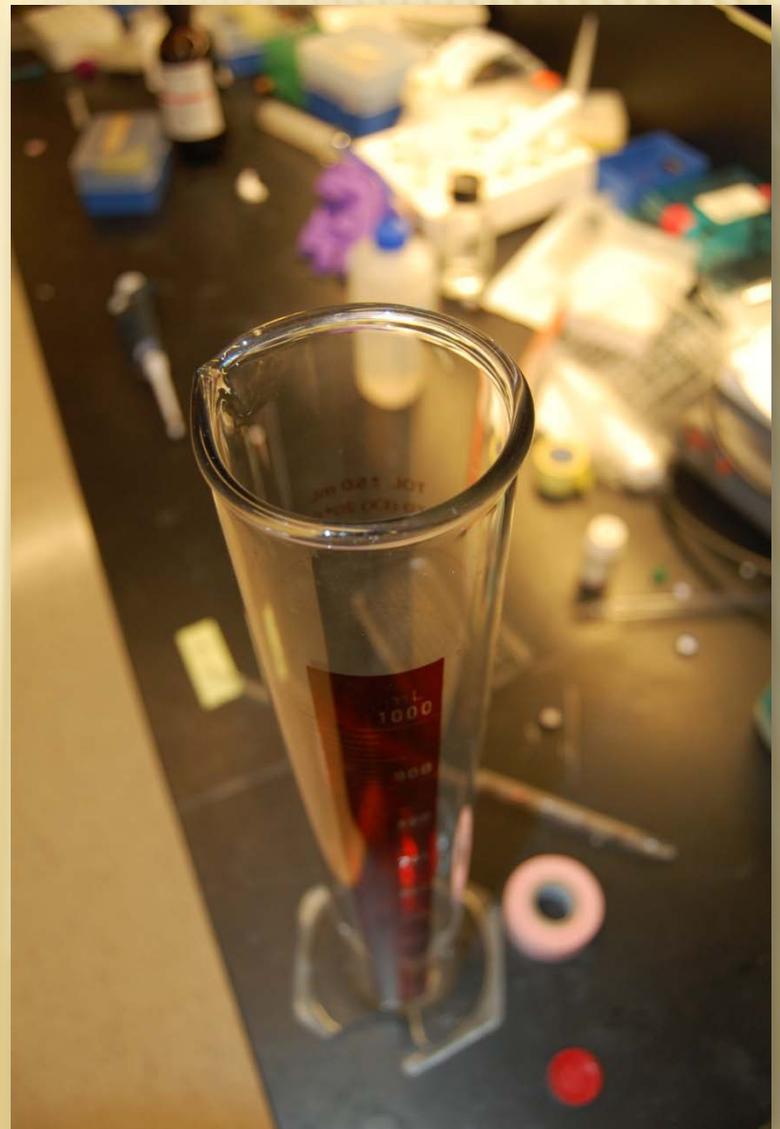
FALL 2009



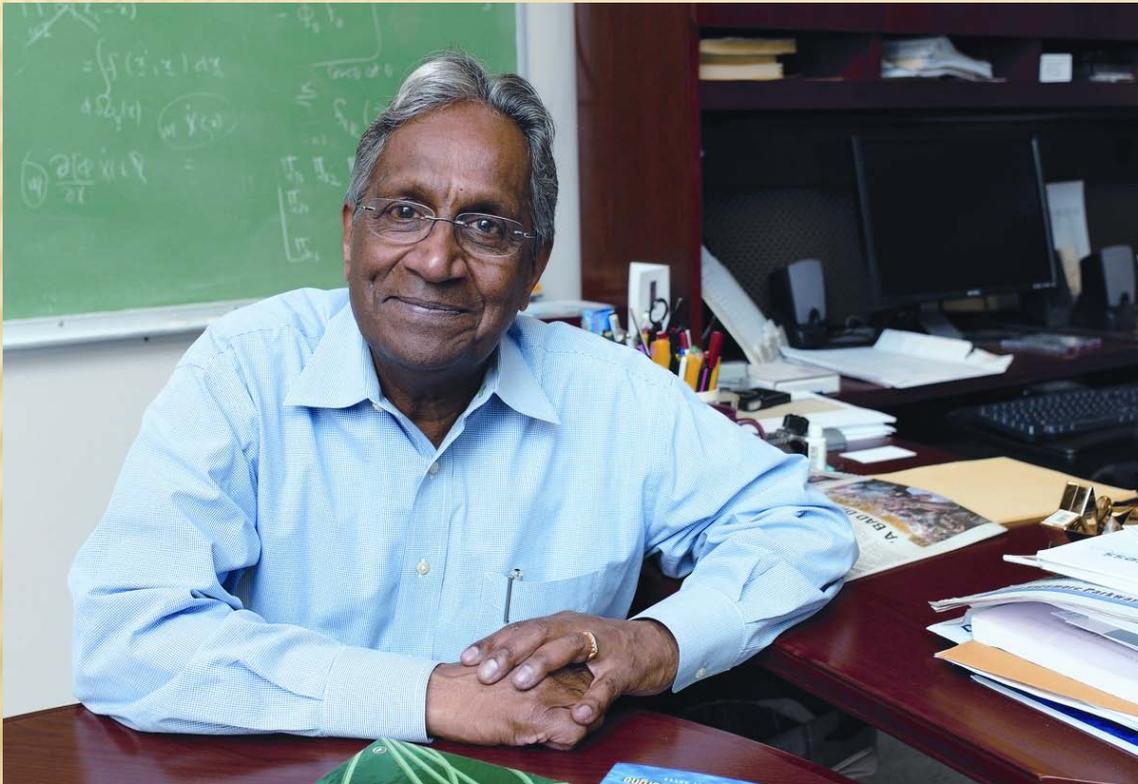
- ✘ B.S., East China University of Science and Technology, 2002
- ✘ Ph.D., Cornell University, 2007
- ✘ Post-Doctoral Research Associate, ETH, Zurich, 2007-09

- ✘ *Research Interests:* Biomimetic Nanoparticle Systems, Molecular Biophysics

RESEARCH SNAPSHOTS



FACULTY AWARDS



Doraiswami "Ramki" Ramkrishna

Harry Creighton Peffer Distinguished Professor

Elected to the National Academy of Engineering (2009)

CONGRATULATIONS TO CHE FACULTY



Rakesh Agrawal

- Inaugural winner, Excellence in Gas Processing Award, Annual Gas Processing Symposium, Qatar (2009)



Michael Harris

- Elected Fellow, AIChE (2009)



James Litster

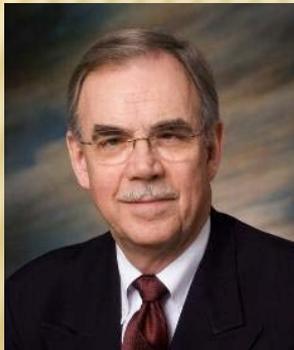
- Achievement Award, 9th International Agglomeration Symposium/4th International Granulation Workshop, UK (2009)

CONGRATULATIONS TO CHE FACULTY



“Ramki” Ramkrishna

- Platinum Award, Institute of Chemical Technology, University of Mumbai (2008)
- Honored with Special Issue, Chemical Engineering Science, Vol. 64, No. 4 (2009)



Rex Reklaitis

- Festschrift Honoree, Computers & Chemical Engineering, Vol. 32, Issues 4-5 (2008)

CONGRATULATIONS TO CHE FACULTY

Arvind Varma



- Distinguished ChE Alumnus (Inaugural batch of 3), Panjab University (2008)
- Distinguished University Alumnus, Panjab University (2008)
- Honoree, Festschrift issue, I&EC Research, Volume 47, No. 23 (2008)



Venkat Venkatasubramanian

- Computing in ChE Award, Cast Division, AIChE, (2009)

100 YEARS OF CLASS PICTURES 1909 TO 2009



ALUMNI AWARDS



Kristi Anseth, BSChE '92

Tisone Distinguished Professor,
Associate Professor of Surgery,
Howard Hughes Medical Institute Investigator,
Chemical and Biological Engineering,
University of Colorado

- ✘ Elected to the National Academy of Engineering (2009)
- ✘ Elected to the Institute of Medicine (2009)
- ✘ Professional Progress Award, AIChE (2009)

2009 DISTINGUISHED ENGINEERING ALUMNUS



Jeffrey Hemmer, BSChE 1980

Senior Vice President
Solution Implementation,
Sinclair Group

ALUMNI AWARDS

2009 DEA

Jeffrey Hemmer

accepting his award,

with

Provost Randy Woodson

and

COE Dean Leah Jamieson

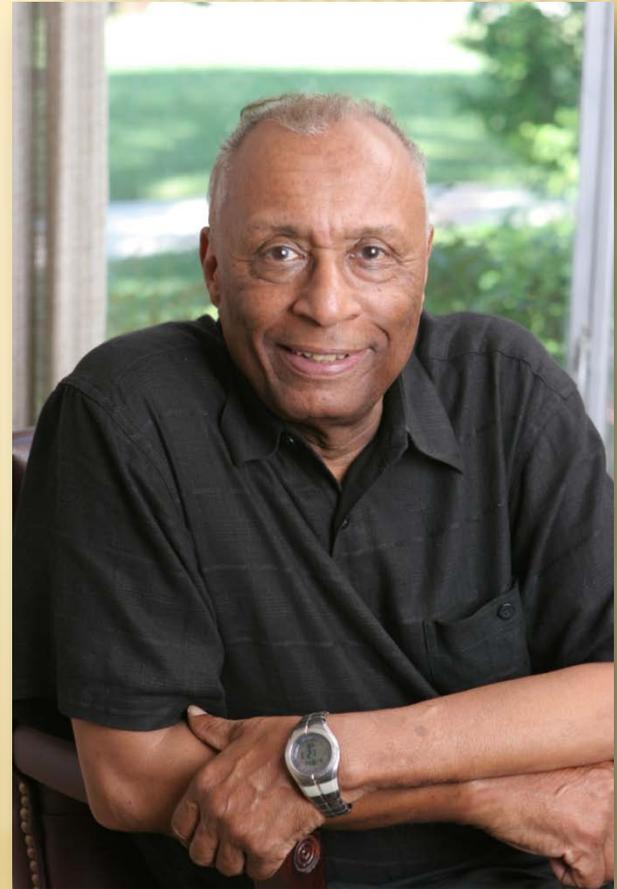


2009 OUTSTANDING CHEMICAL ENGINEER

Henry Sampson, BSChE '56

Director of Mission Development and
Operations of the Space Test Program
(retired)

Aerospace Corporation



2009 OUTSTANDING CHEMICAL ENGINEER



Henry Sampson and Hosts:
Arvind Varma and Michael Harris

2009 OUTSTANDING CHEMICAL ENGINEER

Mary Ellen Weber,

BSCHE '84

Vice President
Governmental Affairs and Policy,
University of Texas
Southwestern Medical Center, Dallas



2009 OUTSTANDING CHEMICAL ENGINEER



Mary Ellen Weber with hosts
Chongli Yuan and Arvind Varma

ALUMNI AWARDS



Chris Bowman, BSChE '88, PhD '91

Associate Dean for Research,
Patten Professor of Chemical and Biological
Engineering, Clinical Professor of Restorative
Dentistry

Charles M. A. Stine Award, AIChE (2009)



Antonios Mikos , PhD '88

J. W. Cox Professor of Chemical and
Bioemolecular Engineering Rice University

- ChE Lectureship Award, ASEE (2009)
- Fellow, Biomedical Engineering Society (2009)

ALUMNI AWARDS



Surya Mallapragada, PhD '96

Richard Stanley Chair in Interdisciplinary Engineering and Head, Department of Chemical and Biological Engineering, Iowa State University

- ✘ Fellow, AAAS (2009)
- ✘ Distinguished Service Award, FPB Division, AIChE (2009)



CLASS OF 2009



SCHOOL OF CHEMICAL ENGINEERING PURDUE UNIVERSITY

Class - May 2009

- ROW 1: K. Sommers, D. Pradana, S. Farkas, A. Fairbanks, Y. Pan, C. Saunders, B. Hasler, L. Quock, M. Knust, K. Vargo, D. Hanna, E. Havekost, J. Deck, S. Watson, E. Kwek, R. Huang, D. Cornejo, L. Leksokumoro, A. Lee, M. Endo
- ROW 2: B. Leach, N. Kissel, M. Richardson, R. Bowditch, A. Belcher, T. Faga, J. Livarchik, A. Parry, B. Billings, C. Ruemmele, C. Bucherl, R. Gardiner, Y. Fouad, A. DeFrees, J. Lancaster
- ROW 3: M. Hopson, G. Jenkins, A. Schuetter, C. Wirkowski, J. Douglas, A. Steinhauser, S. Black, A. Gantz, C. Rutter, P. Schoch, E. Ruf, N. Lantin, M. Cyb, R. Noble, A. Khasnobis, S. William, D. Yao
- ROW 4: N. Soloski, M. Hosford, D. Edwards, M. Bray, C. Shank, L. Ohta, M. Barber, A. Wenger, A. Jackel, A. Gerber, K. Morrell, L. Lambert, P. Sharma, A. Desai, C. Chin, L. Adjianto, E. Adjianto, R. Tan
- ROW 5: R. Oliveira, K. Tyus, M. Somasundaram, B. Stiles, J. Adams, B. Heasley, N. Mosbucker, C. Diao, W. Sun, D. Yang
- ROW 6: C. Fussner, M. Christiansen, C. Bouis, T. Choudhury, T. Bartley, J. Witte, M. Francisco, C. Class, K. Kyburz, R. Goeltz, M. Bobart
- ROW 7: Z. Al Zayer, D. Rains, F. Khatri, D. Knight, S. Burns, C. Kubinski, L. Chau, J. Farris, E. Hasselbring, J. Crum, D. Jemison, J. Jang, P. Taleyarkhan

STUDENT RECOGNITIONS



Julie Kadrmas

Graduate Student and GSO President
NSF Graduate Fellowship



David Hanna

Undergraduate Student , class of 2009
NSF Graduate Fellowship

GRADUATE STUDENT AWARDS

Krista Novstrup

Graduate Student
COE Outstanding Service
Scholarship Award



Grayson Ford

Graduate Student
ConocoPhillips Scholarship



UNDERGRADUATE STUDENT HONORS

Tyler Teykl

ChE Sophomore

Elected Purdue Student Trustee



Ashley Wenger

ChE Senior

Selected as Student Responder

August 2009 Commencement Ceremony



COOP STUDENTS, FALL 2009



RESEARCH SNAPSHOTS



STAFF AWARDS

Larry Campbell

Shipping and Receiving Clerk

- ✦ 2009 Professional Achievement Award, College of Engineering
- ✦ 30 Years of Service with the School of Chemical Engineering, 41 years of Service to Purdue



STAFF AWARDS

Andrea Sills

Business Manager

2009 Professional Service with
Pride Award (PSP)
COE Business Services



STAFF AWARDS



Marcella Maynard

Secretary

10 Years of Service with the School of Chemical Engineering

STAFF AWARDS



Sandy Hendryx

Secretary

**10 Years of Service with the School of Chemical Engineering
Voted “Most Helpful Staff Member” by the Class of 2009**

STAFF AWARDS



Rick McGlothlin

Laboratory Associate

10 Years of Service with the School of Chemical Engineering

STAFF AWARDS



David Taylor

Electronics Shop Coordinator

30 Years of Service with the School of Chemical Engineering

JANUARY 2009



AROUND THE SCHOOL, MARCH 2009



INAUGURAL WOMEN IN CHEMICAL ENGINEERING SEMINAR “CAREER PERSPECTIVES”

SATURDAY, MARCH 28, 2009

Undergraduate and graduate women Chemical Engineering students and Chemical Engineering alumnae met for an afternoon of networking on career choices, opportunities and challenges for women chemical engineers. Four of our remarkable Chemical Engineering alumnae shared their career and personal experiences and perspectives during this energizing and fun event.



WOMEN IN CHE – CAREER PERSPECTIVES



Linda Davis, Director of Industrial Education and Seminar Organizer, Delivering the Welcome Address at the Inaugural Women in ChE Seminar

WOMEN IN CHE - CAREER PERSPECTIVES



Jennifer Young, BSChE 2006

Reservoir Engineer
Shell Exploration and Productions
Keynote Speaker



Jennifer Curtis, BSChE 1983

Professor and Chair
Chemical Engineering Department
University of Florida
Invited Speaker

WOMEN IN CHE – CAREER PERSPECTIVES



Ronna Robertson, BSChE 1992

Operations Superintendent, Fluoromonomers
DuPont Fayetteville Works
Invited Speaker



Lynn Takala, BSChE 2004

Process Engineer
Fluor Chemicals Technology Center
Invited Speaker

PARTICIPANTS IN THE WOMEN IN CHE SEMINAR



MARCH 2009



CHE ACADEMIC ADVISORY BOARD

Kristi Anseth

Distinguished Professor and HHMI Investigator,
Chemical and Biological Engineering
University of Colorado

Michael Ramage

Executive Vice President,
ExxonMobil, Retired

Alexis Bell

Warren and Katharine Schlinger
Distinguished Professor,
UC Berkeley

Gregory Stephanopoulos

Bayer Professor of Chemical Engineering
MIT

Ignacio Grossman

Rudolph R. and Florence Dean University
Professor of Chemical Engineering,
Carnegie-Mellon

Matthew Tirrell

Arnold and Barbara Silverman Professor
Departments of Bioengineering, Chemical
Engineering and Materials Science & Engineering,
University of California, Berkeley.

ACADEMIC ADVISORY BOARD

APRIL 1-2, 2009



Dr. Arvind Varma with
Ignacio Grossman and
Michael Ramage.

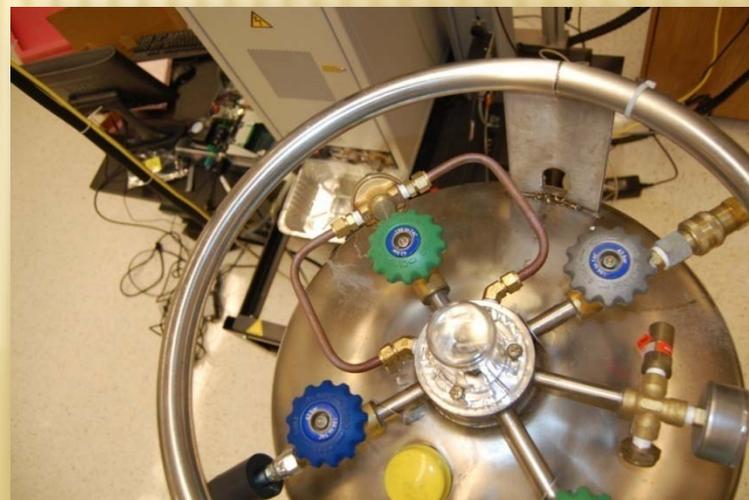
ACADEMIC ADVISORY BOARD

APRIL 1-2, 2009



Dr. Ramkrishna presenting to Greg Stephanopoulos, Ignacio Grossman and Michael Ramage.

INSIDE PURDUE CHE RESEARCH LABS



KELLY LECTURE – APRIL 21-22, 2009

THE KELLY LECTURE

Arthur Kelly, an alumnus of the university, established the Kelly Fund at Purdue University in 1956. The income from this fund is used to bring outstanding scientists and engineers to the campus for lectures and discussions in the Department of Chemistry and the School of Chemical Engineering.

Carol K. Hall

Camille Dreyfus Distinguished University Professor
North Carolina State University

Thermodynamic and Kinetic Origins of Alzheimer's and Related Diseases: A Chemical Engineer's Perspective

3:30-4:30 p.m. Tuesday, April 21 • Room G140, Forney Hall

Self-Assembly of Dipolar Particles: Designing Smart Materials Using Computer Simulation

11:30 a.m.-12:30 p.m. Wednesday, April 22 • Room 3059, Forney Hall

PURDUE



**CHEMICAL
ENGINEERING**

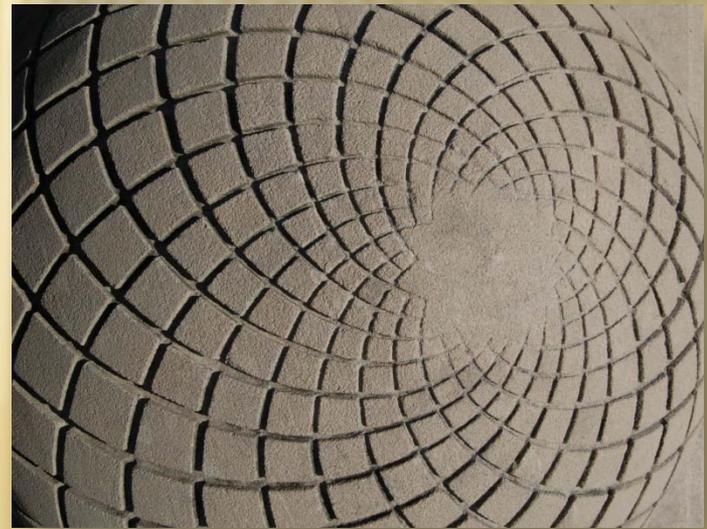
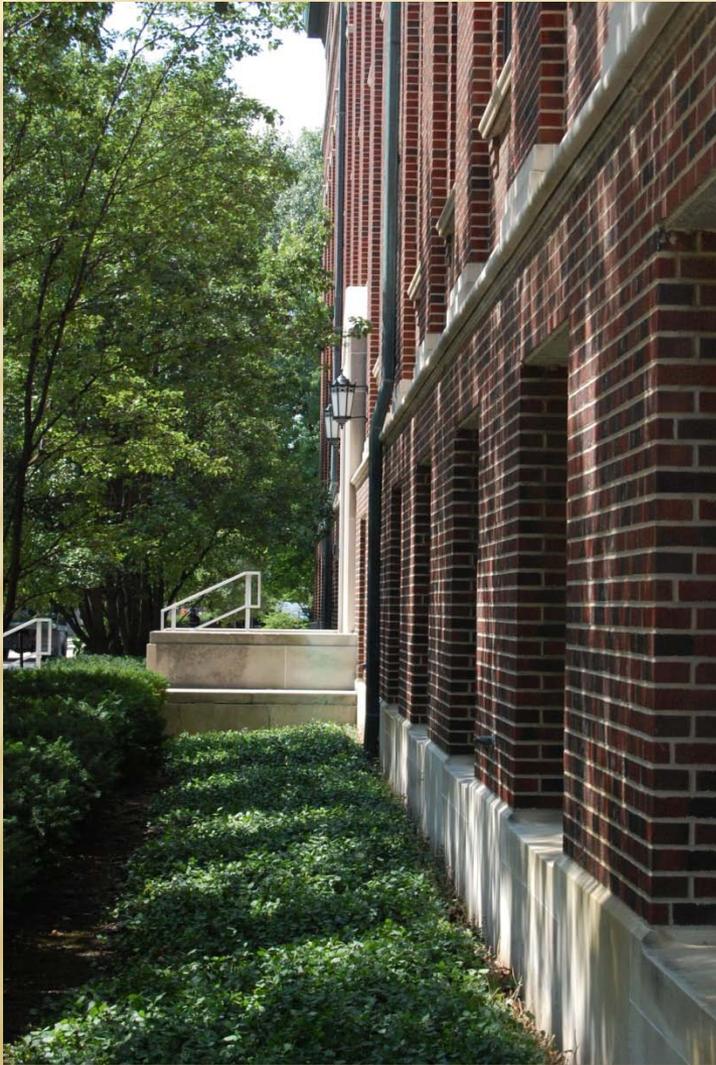
DR. CAROL HALL



Dr. Carol Hall presenting the Kelly Lecture and interacting with graduate students



FORNEY HALL – ARCHITECTURAL DETAILS



AICHE COOKOUT – APRIL 2009



AICHE COOKOUT – APRIL 2009



AROUND THE SCHOOL



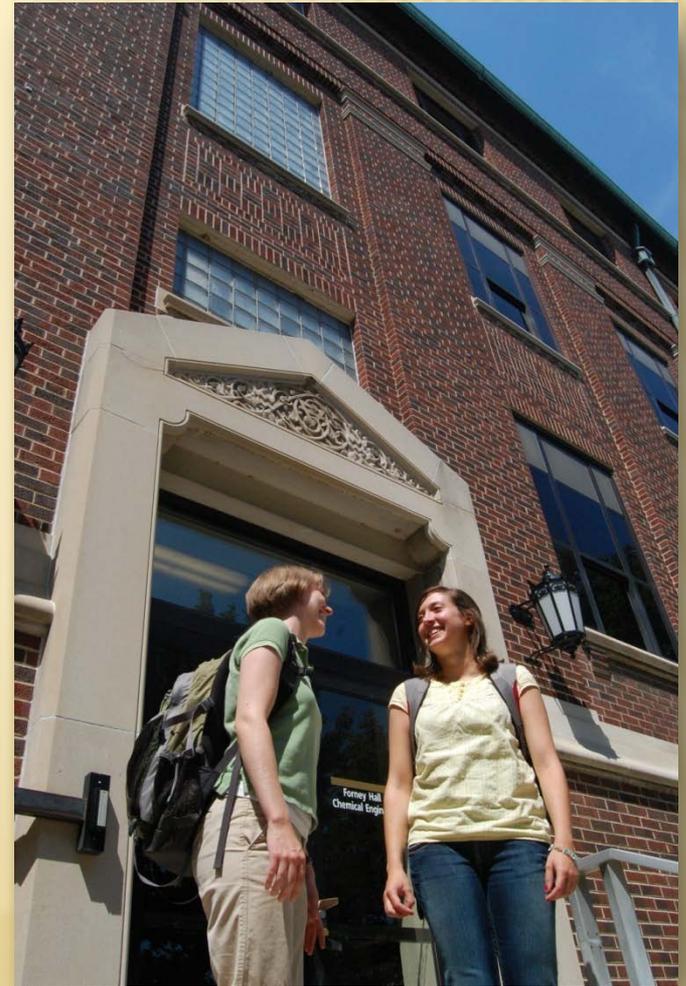
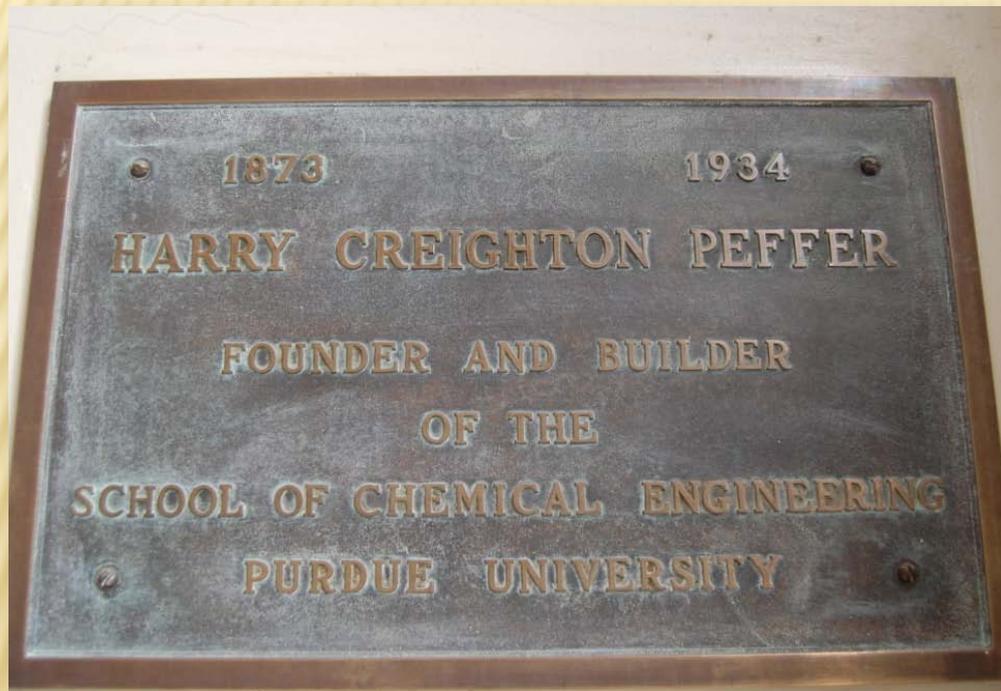
CHE FACULTY, STAFF AND STUDENT APPRECIATION RECEPTION – MAY 2009



STAFF RETREAT – AUGUST 13, 2009



AROUND THE SCHOOL



GRADUATE STUDENT ORGANIZATION (GSO)



Julie Kadrmas
President



Vince Kispersky
Vice President



Nyah Zarate
Voting Representative



Clancy Kadrmas
Non Voting
Representative



Sara Yohe
First Year
Representative



Katie Smith
Social Committee Chair



Piotr Gawecki
PGSG Senator



Shane Bates
Outreach Committee
Chairperson

18TH ANNUAL GRADUATE RESEARCH SYMPOSIUM

AUGUST 19-20, 2009



Professors Hugh Hillhouse
and Linda Wang flanking
Dr. Montgomery Alger



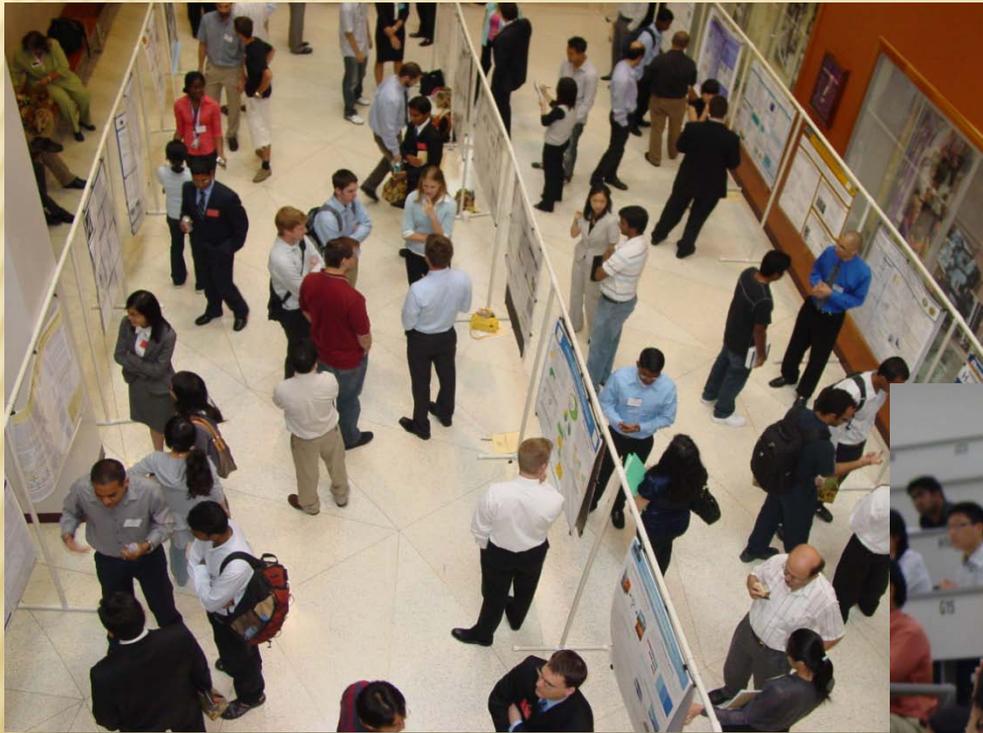
Dr. Montgomery “Monty” Alger,
Vice President and CTO, Air Products,
delivering the Keynote Address



Arvind Varma and Julie Kadrmas
With Dr. Montgomery Alger

GSO SYMPOSIUM - POSTER SESSION AND LECTURE

AUGUST 19-20, 2009



GSO SYMPOSIUM – POSTER SESSION

AUGUST 20, 2009



Graduate Student Robert McCarthy explaining his research



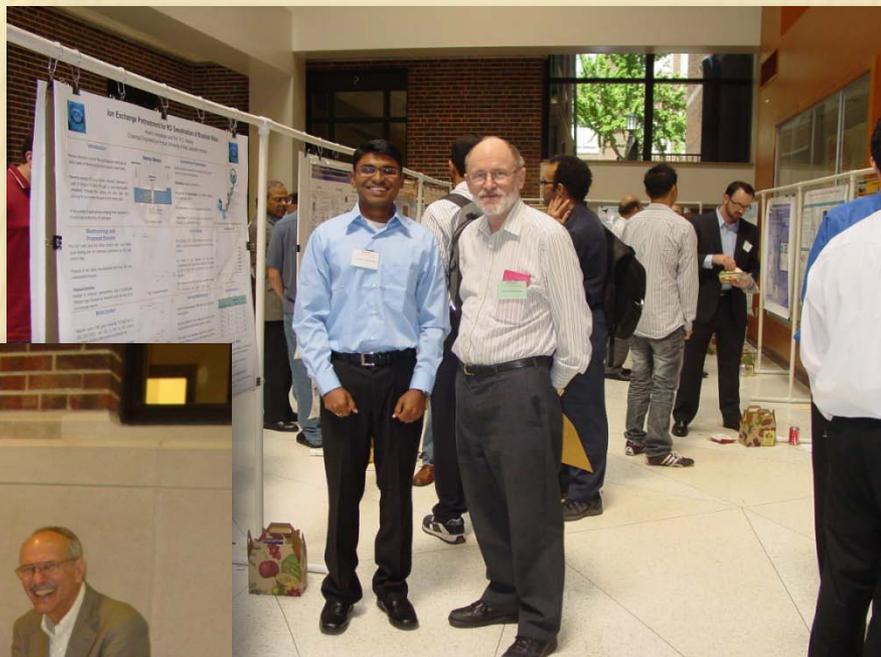
Graduate Students Mahaprasad Kar and Grayson Ford



ChE Graduate Students: Heather Emady, Caitlin Kilroy, Katie Smith, and Michelle Cipich

GSO SYMPOSIUM – POSTER SESSION

AUGUST 20, 2009



Graduate Student
Anand Venkatesan
and Professor Phillip Wankat



Professors Arvind Varma
and Nicholas Delgass



Professors Chongli Yuan
and Julie Liu

GSO SYMPOSIUM – BANQUET

AUGUST 20, 2009



Professors Neal Houze and Chongli Yuan
with Graduate Student Shuang Chen and
Post Doctoral Research Associate Chung Pei Lun



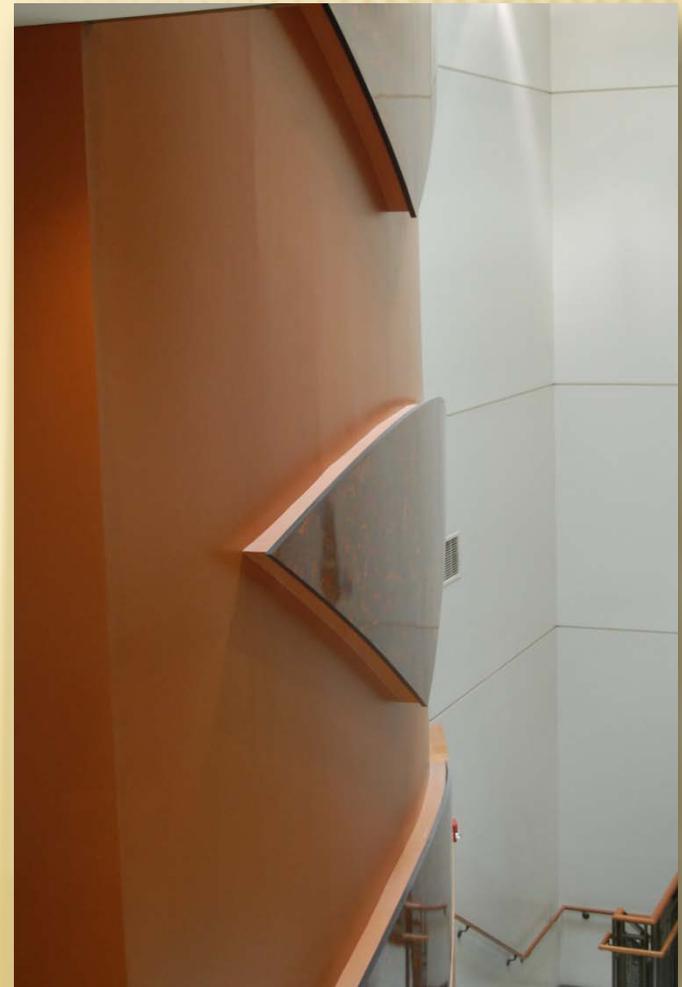
Graduate Student Qing Zhu
and Professor Lyle Albright

GSO OFFICERS WITH KEYNOTE SPEAKER



Monty Algier, Air Products, with Graduate Students Piotr Gawecki, Katie Smith, Sara Yohe, Julie Kadrmas, Vince Kispersky, and Shane Bates

INSIDE FORNEY HALL



GSO – NEW GRADUATE STUDENTS WELCOME PICNIC

AUGUST 24, 2009



GSO – NEW GRADUATE STUDENTS WELCOME PICNIC

AUGUST 24, 2009



GSO VOLLEYBALL TOURNAMENT

SEPTEMBER 2009



GSO VOLLEYBALL TOURNAMENT

SEPTEMBER 2009



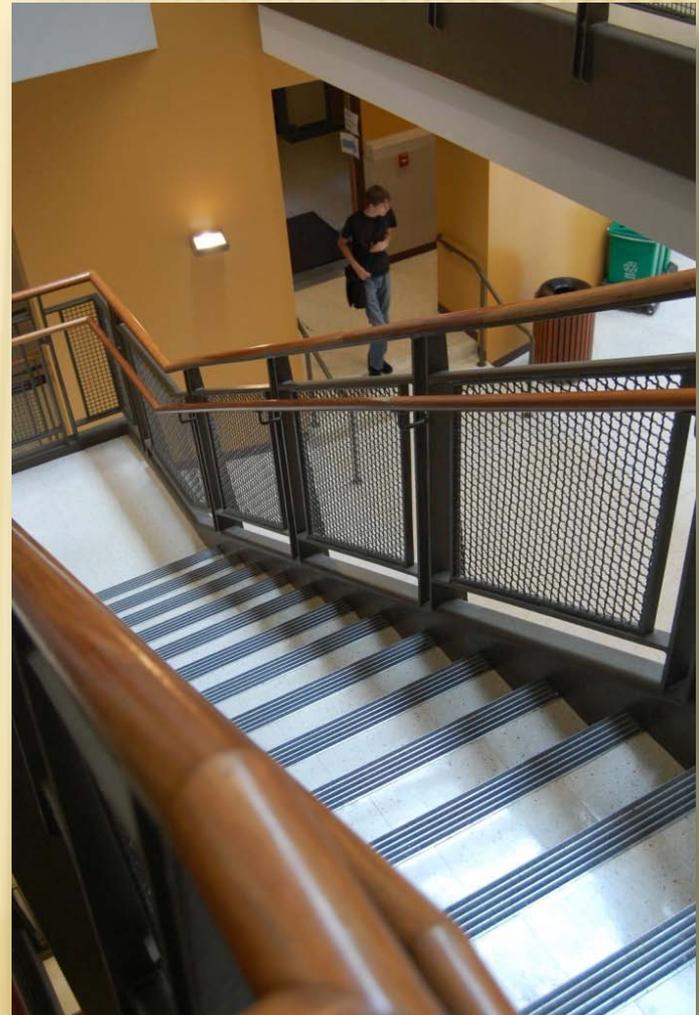
GSO SOCCER TOURNAMENT

OCTOBER 2009



FACULTY VS. STUDENTS

INSIDE FORNEY HALL



2009 SHREVE TEACHING AWARD

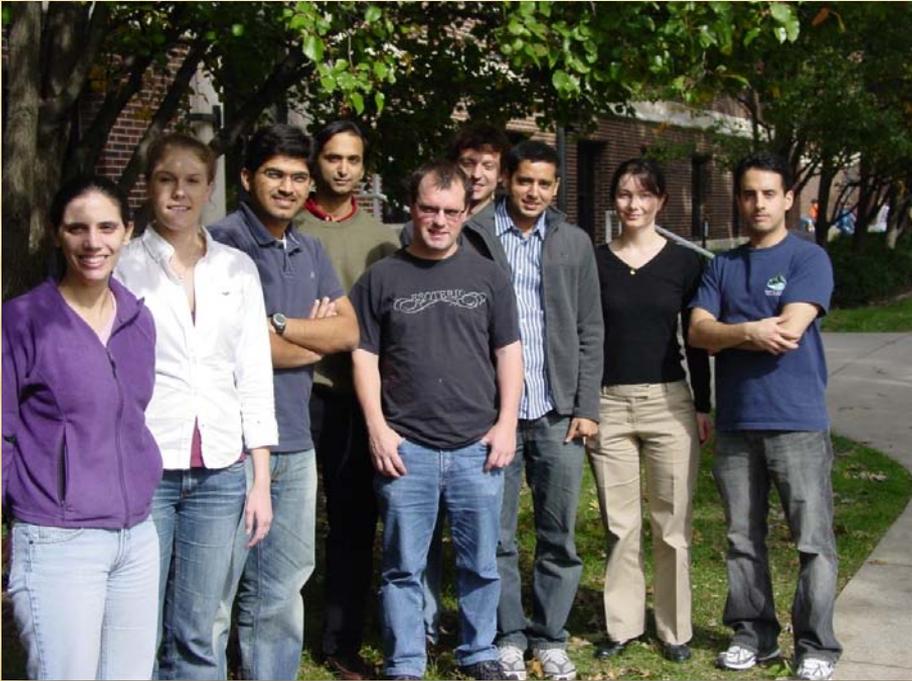
SEPTEMBER 15, 2009



Professor Hugh Hillhouse
receiving the
2009-10 Shreve Teaching Award
from Arvind Varma



CHE COUNCIL FOR SUSTAINABILITY INITIATIVES (CSI)



The Council for Sustainability Initiatives (CSI) is a new ChE Student Organization.

The goals are to encourage the Chemical Engineering faculty, staff and students to:

- Participate in sustainability related activities , inside Forney Hall and beyond.
- Implement a reduce, reuse, and recycle program in our department.

Current Members: Graduate Students Maria Elisa Luque, Sarah Yohe, Saurabh Chaugule, Faculty Advisor Raj Chakrabarti, Post Doctoral Research Associate Kris Villez, Graduate Students Piotr Gawecki and Aviral Shukla, Administrative Director Cristina Farmus, and Graduate Student Jorge Pazmino.

CSI- PURDUE GREEN WEEK

SEPTEMBER 21, 2009

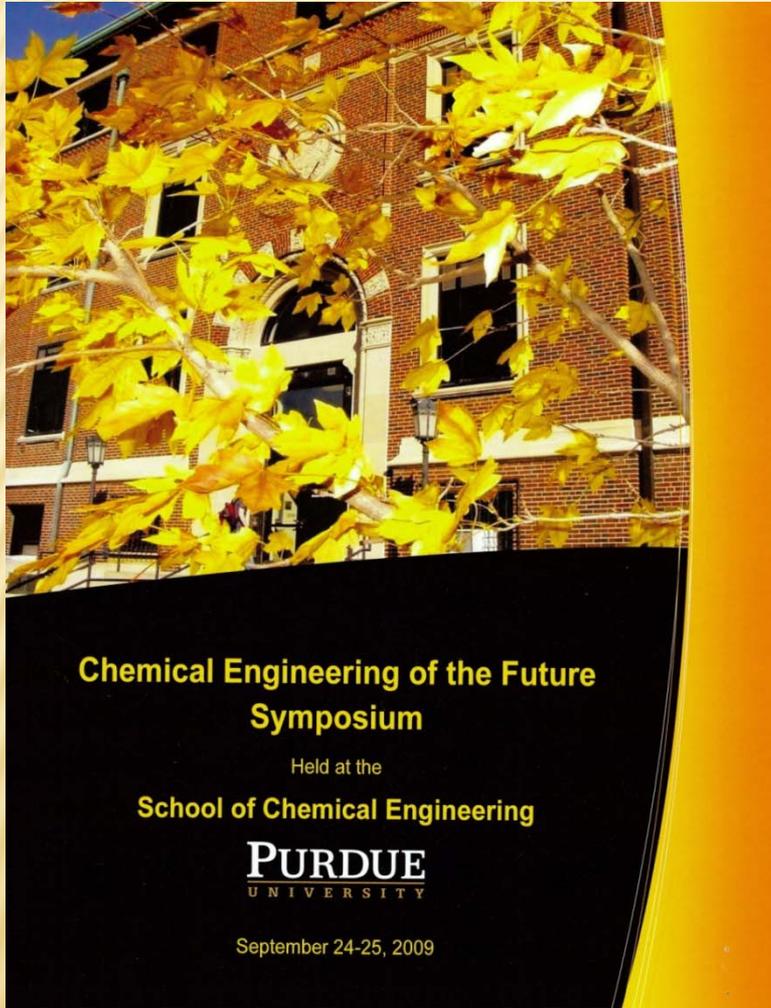


Graduate Students Dana Gary and Maria Elisa Luque and Staff Member Cristina Farmus plant trees as part of Purdue Green Week activities, helped by Purdue Grounds staffers Tim Detzner and Eric Gray



CHEMICAL ENGINEERING OF THE FUTURE SYMPOSIUM

SEPTEMBER 24-25, 2009



Participants:

- × 25 Academic
- × 16 Industrial
- × 14 ChE Ambassadors

Activities:

- × Energy Panel
- × Pharmaceutical Engineering and Healthcare Engineering Panel
- × Dinner and keynote presentation
- × Education Panel
- × Visit of Research and Education laboratories in Forney Hall
- × Visit of Birck Nanotechnology Center in Discovery Park

CHE OF THE FUTURE SYMPOSIUM

ENERGY PANEL



Rakesh Agrawal, moderator, with speaker Maureen McCann (Purdue), and panelists Edmund Seebauer (UIUC), Andrew Geller (Carnegie Mellon) and Fouad Teymour (IIT).

CHE OF THE FUTURE SYMPOSIUM

PHARMACEUTICAL ENGINEERING AND HEALTHCARE ENGINEERING PANEL



Rex Reklaitis, moderator, with panelists Arindam Bose, Pfizer, Surya Mallapragada, Iowa State, speaker Elizabeth Topp, Purdue, and panelist Joseph Pekny, Purdue.

CHE OF THE FUTURE SYMPOSIUM

EDUCATION PANEL



Panelists Pedro Arce (Tennessee Tech) and Edward Cussler (University of Wisconsin), moderator Phillip Wankat, panelist David DiBiasio (WPI), and speaker Joseph McCarthy (University of Pittsburgh)

CHE OF THE FUTURE SYMPOSIUM



Participants in the
ChE of the Future Symposium

James Waters (Univ. of Louisville) and
Jorge Gatica (Cleveland State Univ.)

CHE OF THE FUTURE SYMPOSIUM



Jeff Kloosterman (Air Products)
and Allen Hersel (Trine Univ.) and
Professor Osman Basaran



Professor Jim Litster

CHE OF THE FUTURE SYMPOSIUM



Rick Roberts (ChevronPhillips) and
Richard Narta (ExxonMobil)



Billy Bardin (Dow Chemicals) and
Professor Fabio Ribeiro

CHE OF THE FUTURE SYMPOSIUM



Surya Mallapragada (Iowa State) and Elizabeth Topp (IPPH, Purdue)



James Marek (Abbott), Professor Nicholas Delgass, Edmund Seebauer (UIUC), and Andrew Gellman (Carnegie Mellon)

CHE OF THE FUTURE SYMPOSIUM



Harold Igdaloff (BSChE '47),
with Shirley Rosenberg



Joseph Alford (BSChE '66)

CHE OF THE FUTURE SYMPOSIUM

FORNEY HALL- RESEARCH LABORATORIES VISIT



Graduate Students Grayson Ford, Steven Gaik, and Robert McCarthy, explaining experiments in the Solar Laboratories.

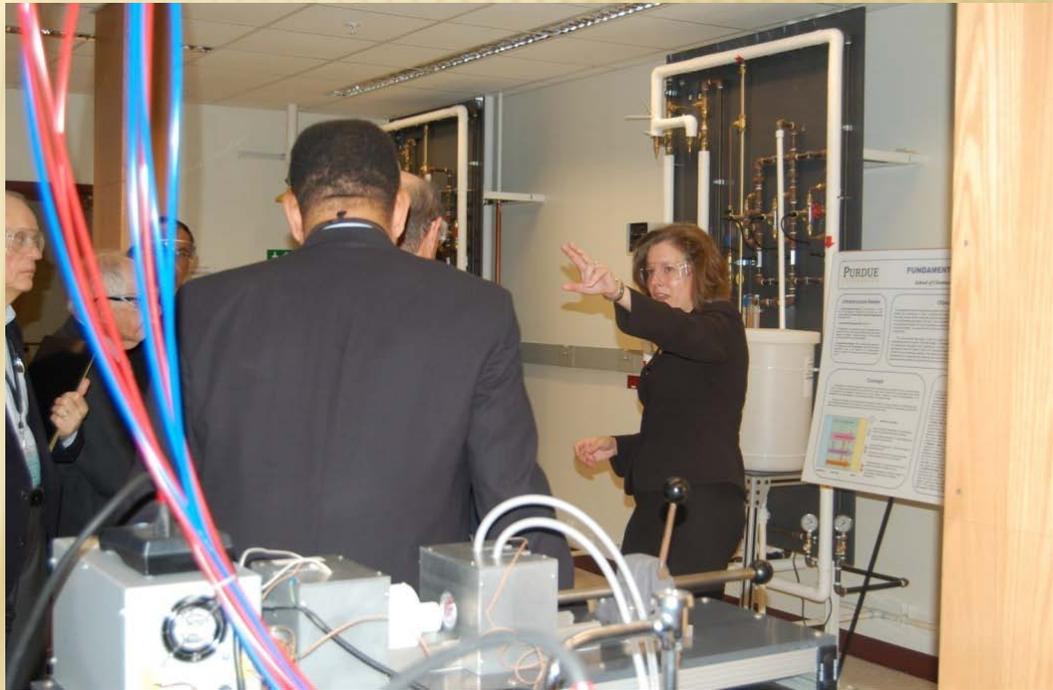


CHE OF THE FUTURE SYMPOSIUM

FORNEY HALL- RESEARCH LABORATORIES VISIT



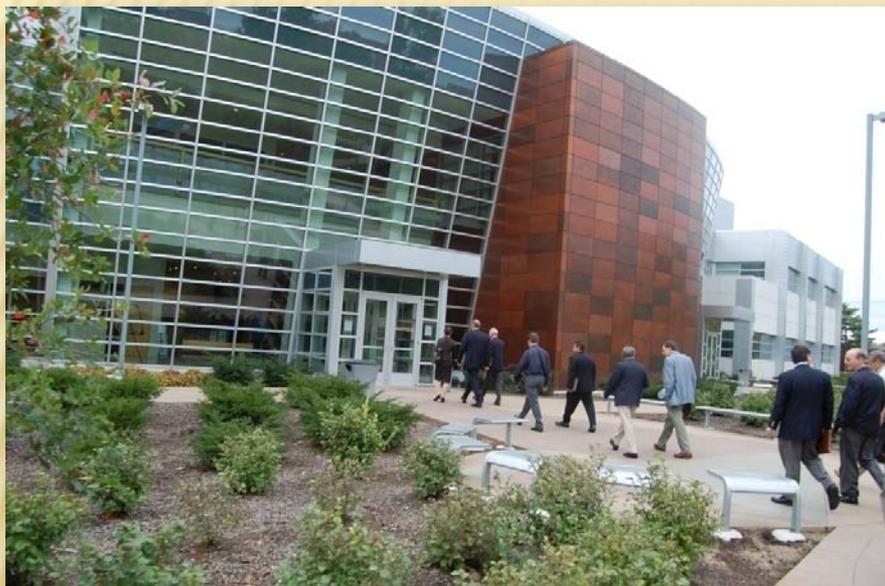
Peter Pintauro (Vanderbilt University)



Linda Davis,
presenting the Fundamentals Laboratory

CHE OF THE FUTURE SYMPOSIUM

DISCOVERY PARK VISIT



Outside and inside Birck Nanotechnology Center

CHE OF THE FUTURE SYMPOSIUM

DISCOVERY PARK VISIT



Inside the vibration free chamber in
Birck Nanotechnology Center



Outside the “clean” room in
Birck Nanotechnology Center

SEPTEMBER 2009



INDUSTRIAL ADVISORY COUNCIL MEETING

SEPTEMBER 25, 2009

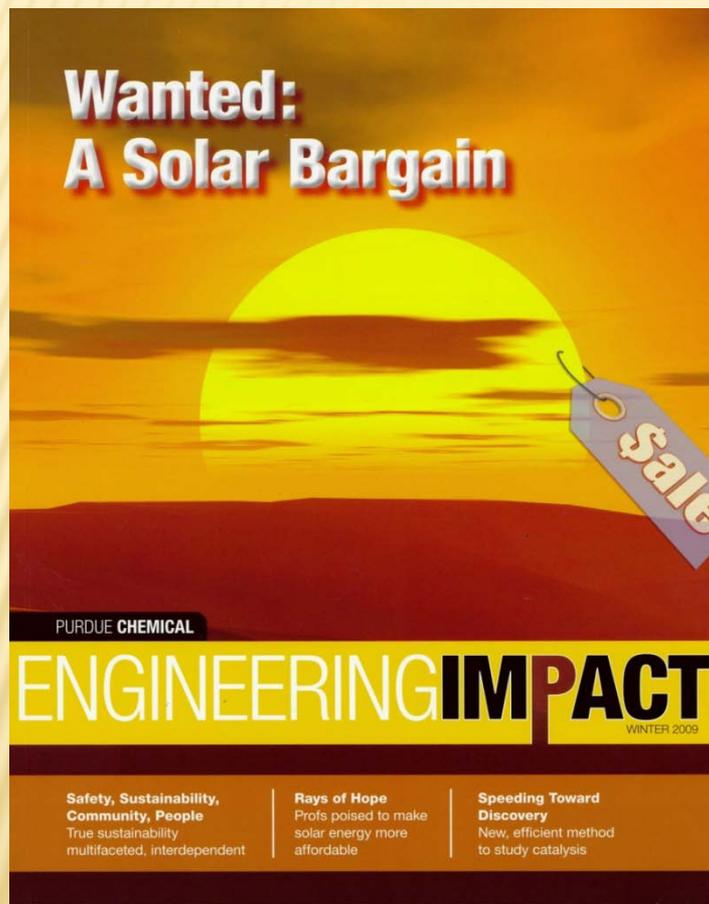


Front row, left to right: Cristina Farnus (Purdue), Linda Davis (Purdue), Ronna Robertson (Roquette), Julie Paolillo (Purdue), Chongli Yuan (Purdue)

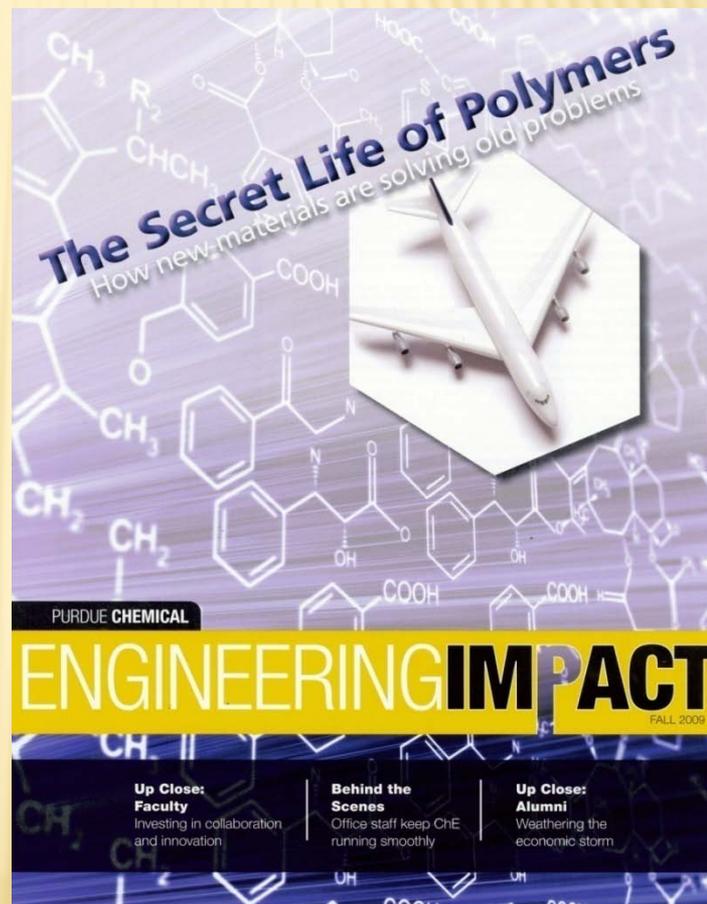
Middle row (left to right): Peter Kraemer (Anheuser Busch), Billy Bardin (Dow), Rick Roberts (ChevronPhillips Chemical), Arvind Varma (Purdue), Yue Wu (Purdue), Michael Harris (Purdue), Ben Christolini (UOP)

Back row (left to right): Pierre LaMere (3M), Jim Litster (Purdue), Raj Chakrabarti (Purdue), Mark Evans (P&G), Richard Narta (ExxonMobil), Shekar Shetty (Air Liquide), Steve Beaudoin (Purdue), Arindam Bose (Pfizer), James Marek (Abbott), James Rekoske (UOP), Jeff Kloosterman (Air Products), Evan Bauman (Shell), Rakesh Agrawal (Purdue)

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THANK YOU!



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