



School of Chemical Engineering - Purdue University
2008 - Year in Pictures

RESEARCH FRONTIERS

ENERGY

SOLAR
BIOFUELS
HYDROGEN
FUEL CELLS
COAL

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

Chemical Engineering Faculty



Rakesh Agrawal
ScD, MIT, 1980



Osman Basaran
PhD, Minnesota, 1984



Chelsey D. Baertsch
PhD, UC - Berkeley, 2001



Stephen P. Beaudoin,
Ph.D., NCState, 1995



James M. Caruthers
ScD, MIT, 1977



David S. Corti
Ph.D., Princeton, 1997



W. Nicholas Delgass
PhD, Stanford, 1969



Elias I. Franses
Ph.D., Minnesota, 1979



Robert E. Hannemann
MD, Indiana, 1959



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



Hugh W. Hillhouse
PhD, Massachusetts, 2000



Nancy W. Y. Ho
PhD, Purdue

Chemical Engineering Faculty



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



Gintaras V. Reklaitis,
PhD, Stanford, 1969



Fabio H. Ribeiro
PhD. Stanford, 1989



Kendall T. Thomson
PhD. Minnesota, 1999



Arvind Varma
PhD, Minnesota, 1972



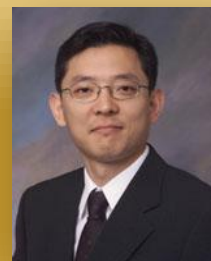
Venkat Venkatasubramanian
PhD, Cornell, 1984



Nien-Hwa Linda Wang
PhD, Minnesota
1978



Phillip C. Wankat
PhD, Princeton
1970



You-Yeon Won
PhD, Minnesota
2000



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



Alden P. Emery
PhD, Illinois, 1954



Robert A. Greenkorn
PhD, Wisconsin, 1957



Robert G. Squires
PhD, Michigan, 1963



George T. Tsao
PhD, Michigan, 1960

Purdue Engineering Fountain in the Spring



100 Years of AIChE Accomplishments

**50 Eminent Chemical
Engineers of the Foundation
Age**



Dr. Henry Rushton

Purdue ChE faculty 1955-71

AIChE President 1957

25 Industrial Executives



Paul Oreffice

BS '49

Former CEO Dow Chemical Co.

100 Years of AIChE Accomplishments

3 out of 30 “Groundbreaking ChE Books” were written by authors while they were on the Purdue ChE faculty:

D.R. Coughanowr and L.B. Koppell

“Process Systems Analysis and Control”

J.M. Smith and H.C. van Ness

“Chemical Engineering Thermodynamics”

R. Norris Shreve

“Chemical Process Industries”

100 Years of AIChE Accomplishments

**9 Chemical Engineers
in Space**



Dr. Mary Ellen Weber (BS '84)

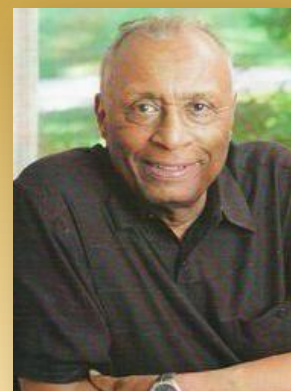
Former Astronaut

Vice President of Government Affairs

University of Texas

Southwestern Medical Center

**20 Chemical Engineers in
Other Pursuits**



Dr. Henry T. Sampson (BS '56)

Co-inventor of

gamma-electric cell technology

100 Years of AIChE Accomplishments



Sangtae Kim
Faculty Member

100 Chemical Engineers of the Modern Era



Nick Peppas
Former Faculty Member
1976-2002



Kristi Anseth
BS '92



Mike Ladisch
MS '74, PhD '77



Vern Weekman
BS '53, PhD '63

Purdue Memorial Union under Snow



Congratulations to ChE Faculty



Rakesh Agrawal

**Fuels and Petrochemicals
Division Award, 2008, AIChE**



Osman Basaran

Elected Fellow, 2008, APS

Congratulations to ChE Faculty



Sangtae Kim

George Lappin Award, 2008, AIChE



You-Yeon Won

**Outstanding Young Investigator
Award, 2007, Korean Institute of
Chemical Engineers, U.S. Chapter**

Congratulations to ChE Faculty



Doraiswami Ramkrishna

Elected Fellow, 2008, AIChE



Arvind Varma

Elected Fellow, 2008, AIChE

Spring on Purdue Campus



2008 Distinguished Engineering Alumnus

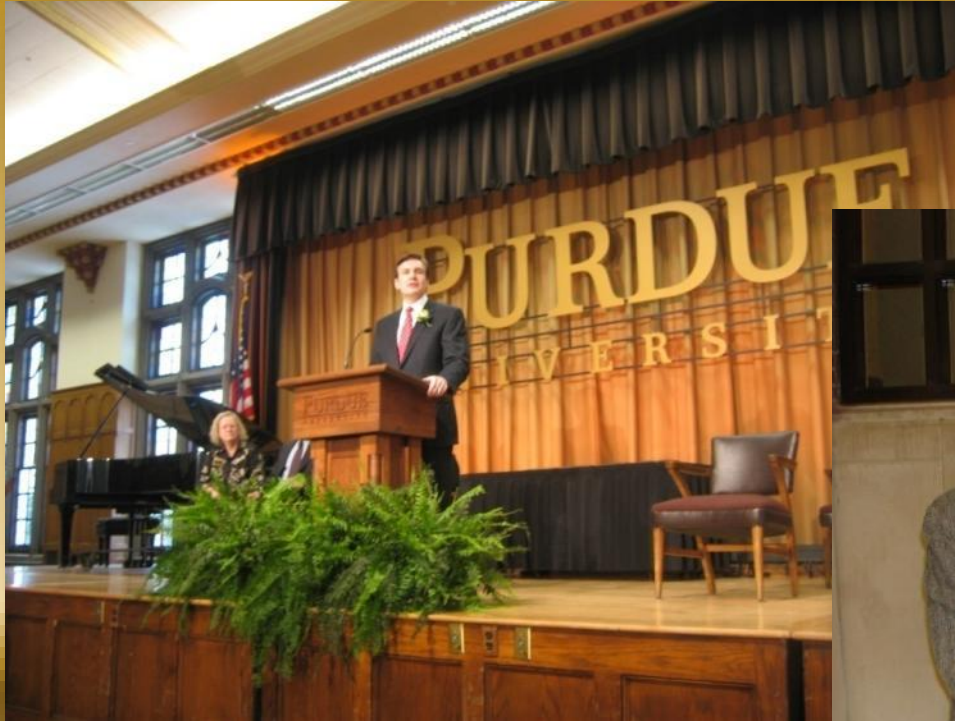


Michael J. Graff

M.S. '79

**President and CEO, Air Liquide USA LLC
and
Chairman, Air Liquide Canada**

Michael Graff - DEA Celebration



Michael Graff delivering his acceptance speech



Michael Graff with Hosts, Dr. Albright and Dr. Varma

2008 Outstanding Chemical Engineer

Roberta Gleiter

BSCHE '60

**CEO
Global Institute for
Technology and
Engineering**

and

**Engineering Consultant
Aerospace Corporation**



Roberta Gleiter and Hosts: Dr. Wang and Dr. Varma



2008 Outstanding Chemical Engineer

Antonios Mikos

PhD '88

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



Antonios Mikos and Hosts: Dr. Liu and Dr. Varma



2008 Outstanding Chemical Engineer

Gary Poehlein

BSCHE '58, MSCHE '63, PhD '66

**Director, School of Chemical
Engineering, Georgia Tech
(retired)**

and

**Director, CTS Division , NSF
(retired)**



Gary Poehlein and Hosts: Dr. Varma and Dr. Reklaitis



Alumni Awards



Kristi Anseth, BS '92

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

**"Brilliant 10" for 2008,
Popular Science Magazine**



Lisa Brannon-Peppas, MS '86, PhD '88

**Research Professor, Biomedical Engineering,
University of Texas - Austin**

ChE Practice Award, 2008, AIChE

Alumni Awards



Jennifer Sinclair Curtis, BS'83

**Chair and Professor, Chemical Engineering,
University of Florida**

ChE Lectureship Award, ASEE

**Elected member of AIChE Board of
Directors**



John C. Martin, BS '73

Chairman and CEO, Gilead Sciences

Elected member, 2008, NAE

Alumni Awards



Terry Papoutsakis , MS '77, PhD '80

**Eugene DuPont Chair, Chemical Engineering
Delaware Biotechnology Institute**

**James M. Van Landen Distinguished
Service Award, 2007, ACS**



Lynn Takala, BS 2004

**Process Engineer, Fluor
Chemical Technology Center**

**Named one of the 14
"New Faces in Engineering", 2008
National Engineers Week Foundation**

Purdue Bell Tower in the Summer



Student Recognition

Robert McCarthy

**National Defense
Science and Engineering
Graduate Fellow**



Dana Gary

**Graduate Student
Representative to the
Engineering Advisory
Council, Purdue**



Student Awards

Graduate Teaching Assistant – Magoon Award
(Sponsored by the College of Engineering, Purdue)

Dave Balachandran, Dana Gary

Intan Hamdan, Bum Soo Kim

Rugved Pathare

Teaching Award Excellence
(Sponsored by the Chemical Engineering, Purdue)

Bich-Van Pham and Joe Gatt

Student Awards

Bich-Van Pham

**Emily M. Wadsworth
Graduate**

**Mentoring Award
by**

**Women in Engineering
Programs, Purdue**





Armstrong Hall

Staff Awards



**COE Outstanding Team Award
ChE Business Office**

Staff Awards



Karen Heide

Secretary

20 years of service with

Chemical Engineering

33 years of Service

to Purdue



Purdue Mall

2008 Kelly Lecture

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.

Pablo Debenedetti

*Class of 1950 Professor in Engineering & Applied Science
Princeton University*

“Water in Confinement”

Tuesday, March 18, 2008, 3:30 p.m., FRNY G140

“Statistical Characterization of Structure in Complex Systems”

Wednesday, March 19, 2008, 11:30 a.m., FRNY B124

PURDUE
UNIVERSITY



**SCHOOL OF
CHEMICAL ENGINEERING**

2008 Kelly Lecture

Dr. Debenedetti with Dr. Varma and presenting his lecture



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

**Richard A. Ahl Professor and Dean
of Engineering, UC Santa Barbara**

ChE Academic Advisory Board

February 26-27, 2008



Meeting With Faculty and
Grad Students



ChE Academic Advisory Board

Delgass, Ramage, Agrawal



Bell, Reklaitis



Wang, Stephanopolous



Anseth, Hannemann

Senior Prank – May 2008

Theoretical price for woodchips: \$60/ton

Actual value of woodchips: Worthless

Finally finding a good use for woodchips: Priceless



ChE Faculty, Students and Staff Appreciation Reception – May 2008



Boilermakers!



Graduate Student Organization (GSO)

President: Hari Nair

Vice President: Intan Hamdan

Voting Representative: Dana Gary

Non Voting Representative: Michelle Chaffee

First Year Representative : Julie Kadramas

Social Committee Co-Chairs:

Santosh Ramalingham and Moiz Diwan

PGSG Senator: Mahaprasad Kar



GSO Officers

GSO Soccer



GSO Soccer





GSO Cricket



**Professor Delgass
watching a game
of cricket**

GSO Volleyball



17th Annual Chemical Engineering Graduate Research Symposium

August 20-21, 2008



GSO Mixer



GSO Symposium



2008 GSO Lecture



**2008 GSO Speaker: Jan Lerou,
Manager, Experimental Operations, Velocys**

2008 GSO Poster Session



GSO Symposium 2008 Award Winners



2008 GSO Banquet



2008 GSO Banquet



**Bich-Van Pham and Dana Gary
presenting their awards**

**Hari Nair and Moiz Diwan
networking with Dr. Varma**





Sunset Over West Lafayette

2008 GSO Fall Welcome Picnic



Staff at the GSO Picnic



2008 New Graduate Students at the GSO Picnic





Scholarship Banquet

October 17, 2008



NEW DIRECTIONS

Industrial Advisory Council

School of Chemical Engineering

INFLUENCE

ACHIEVE

INNOVATE

*Working together to create
an educational environment
to prepares today's
chemical engineering
students for the 21st century*

PURDUE
UNIVERSITY




New Directions Industrial Partners

 3M Corporation

 Air Products and Chemicals Inc.

 Anheuser-Busch, Inc.

 BP Plc.

 Chevron Phillips Chemical Company

 Dow Chemical Company

 Eli Lilly and Company

 Exxon Mobil Corporation

 Kimberly-Clark Corporation

 Lubrizol Corporation

 Lyondell Chemical Company

 National Starch & Chemical Corp.

 Procter & Gamble Company

 Shell Oil Company

Industrial Advisory Council (IAC) October 23-24, 2008



IAC Members Visiting the Fundametals Lab



IAC Members in the Fundamentals Lab



IAC Members Speed Networking with Students





IAC Members Speed Networking with Students



Fall Around Forney Hall

Fundamentals Lab ... Our Third Year



Students in the Fundamentals Lab



Industry Representatives with Students in the Fundamentals Lab



Forney Hall -- Fall 2008



Omega Chi Epsilon



**IAC Members lined up to buy
ChE Glasses**

Professor Houze and the Pillsbury Man During an AIChE Hosted Event





First AICHE Grand Prix Kart Finishes Sixth

Crew members:

Scott Bilskie (crew chief)

Robbie Cunningham

Rich Chiesa (scorer)

Adam Kern (track worker)

Paul McCain

Hamza Tanvir

First AICHE Grand Prix Kart Finishes Sixth



**Will Taber (driver),
was honored with
“Rookie of the Year”
award**



Around the School...

Homecoming Guests Hosted by Dr. Albright



ChE Homecoming

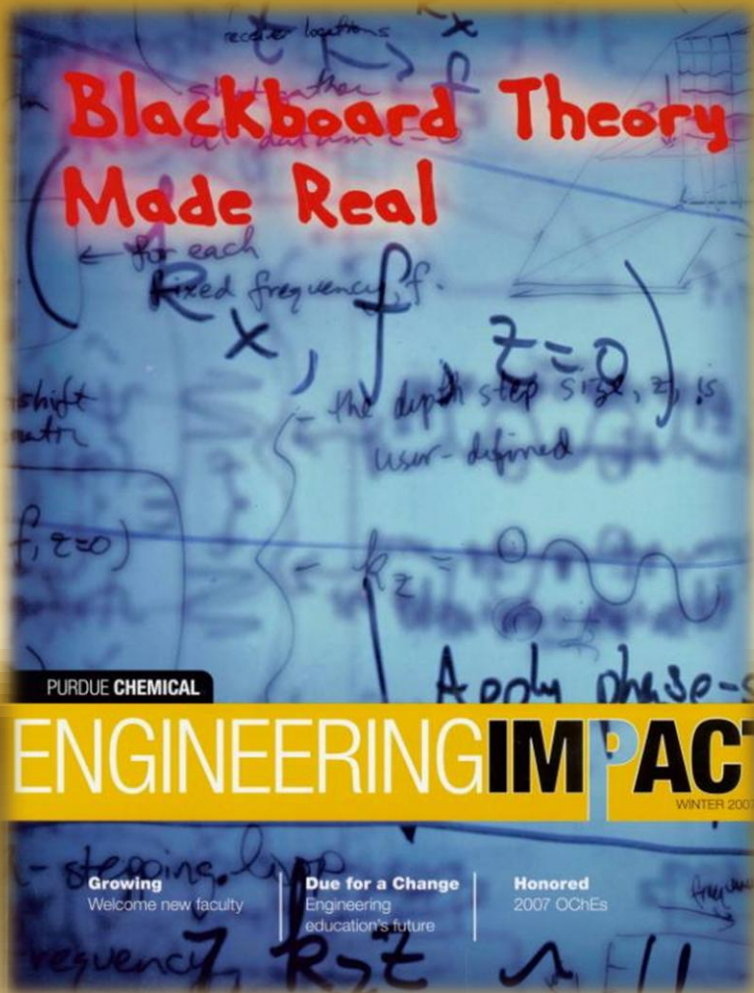
The Forneys visiting the
ChE Display



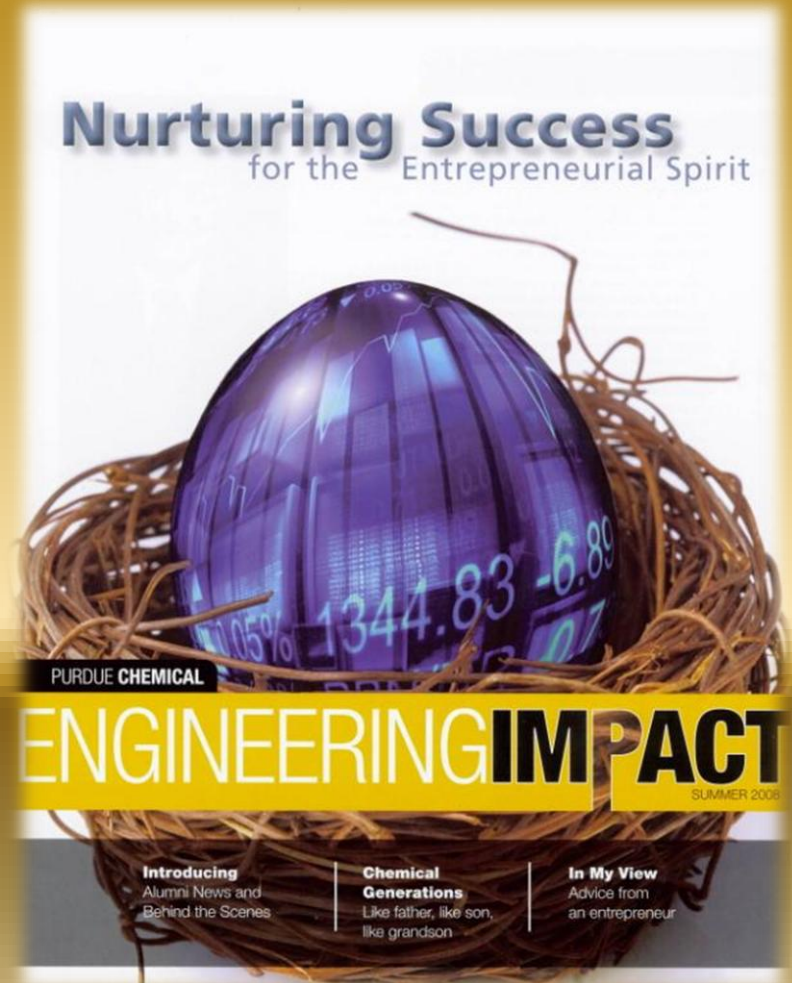
C. Farmus, S. Beaudoin and
D. Grubbe welcoming alumni



Impact Magazine



Winter 07-08



Summer 08

Dr. Ramkrishna and Dr. Houze 70th Birthday Celebration



Dr. Houze Receiving His 70th Birthday Card



Dr. Ramkrishna Receiving His 70th Birthday Card





**Dr. Ramkrishna
and
Rick McGlothlin**

**Dr. Houze
and
Dr. Taylor**



Faculty, Students, and Staff Celebrating Dr. Houze and Dr. Ramkrishna for their 70th Birthday Celebration



You have to guess 3 of the people in these pictures to receive any cake!

CAN YOU RECOGNIZE OUR PURDUE CHEMICAL ENGINEERING PROFESSORS & STAFF?



Blast From the Past



The End!