

Purdue University

School of
Chemical
Engineering

2014-15
Year in Pictures



Other pictures to add

Mellichamp lecture

Kelly Lectures

1022

1025

Crane

Study abroad

CoOp Hall of Fame

ChE Strategic Plan 2015 – 2019

- **Vision:** Continue to be among the premier chemical engineering programs in the world.
- **Mission:** Provide students with a rigorous and relevant education, conduct field-defining research, and enhance the School's global impact.
- **Values:** Integrity, excellence, leadership, diversity, sustainability



ChE Strategic Plan 2015 – 2019

Research: Pursue breakthrough research that extends the boundaries of chemical engineering into areas that promote sustainability and have the greatest positive impact on our global society.

- **Education:**

- **Graduate Programs:** Recruit and retain a high-caliber, motivated and diverse body of graduate students, promote the scientific visibility and development of PhD students, and increase the size and impact of the Professional MS program.
- **Undergraduate Programs:** Maintain a highly capable, motivated and diverse body of undergraduates, and help them to obtain a strong and relevant education throughout their Purdue experience.

- **Global Impact:** Educate undergraduate and graduate students who will be successful in a global environment. Cultivate and expand research and educational relationships with prominent international institutions.

ChE Strategic Plan 2015 – 2019

- **Development:** Secure and improve the School's financial foundation and enhance faculty resources while balancing short- and long-term goals.
- **Engagement:** Encourage faculty, students and staff to develop and engage in activities in the professional community, with industry and the local and Purdue community to enhance the overall academic experience.
- **Culture and Environment:** Foster an environment that is dedicated to excellence in achieving the educational and research objectives of the School. Encourage professional development, leadership, and team-building activities. Support recognition by internal and external award nominations. Promote a culture of respect and inclusiveness, and a commitment to safety.

CHE School Parameters

**Founded
1911**

**Forney
Hall**

CMET
47,110 asf
Addition
44,544 asf

32 Staff

**151
Graduate
Students**

**591
Undergraduate
Students**

35 Faculty

Professional MS Program



Concentrations:

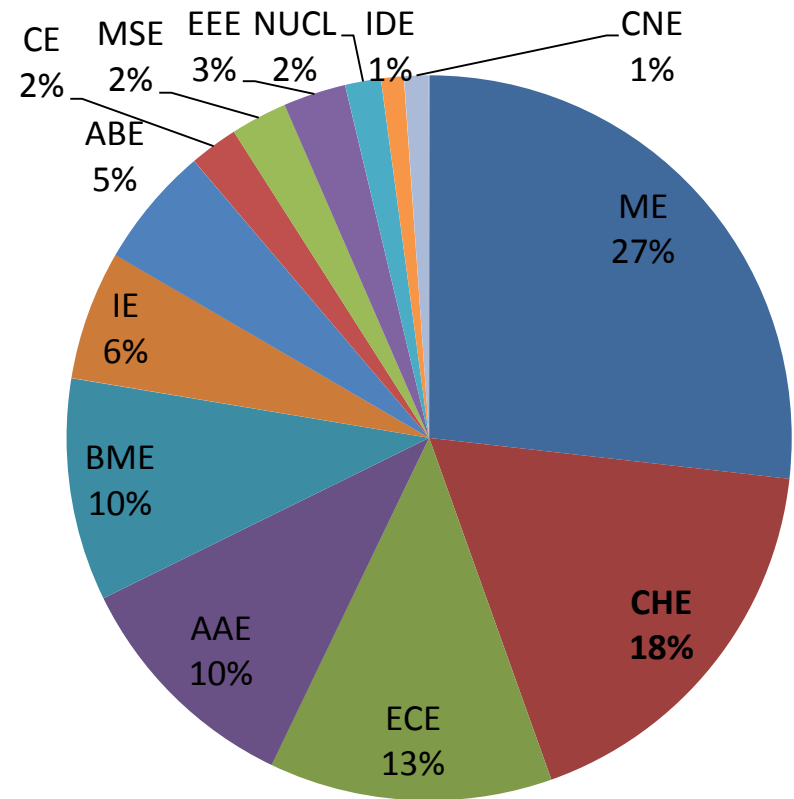
- Biochemical Engineering
- Energy Systems - Fundamentals and Processes
- Kinetics, Catalysis and Reaction Engineering
- Particulate Products and Processes
- Pharmaceutical Engineering

Details:

- Non thesis program
- Masters of Science in ChE
- Min 30 credit hours
 - 15 ChE credits
 - 9 MGMT credits
 - 6 research credits

Presidential and Trustees Scholarship Information, 2015-16

- Although ChE students account for only 7% of the Fall 2015 enrollment in the College of Engineering, they received 18% of the total P&T Scholarships in the College.
- 24% of all ChE undergraduate students receive P&T scholarships (Fall 2015).
- 70% of our undergraduate students have a GPA of 3.2 or higher (Fall 2015).



UG Scholarships 2015-16

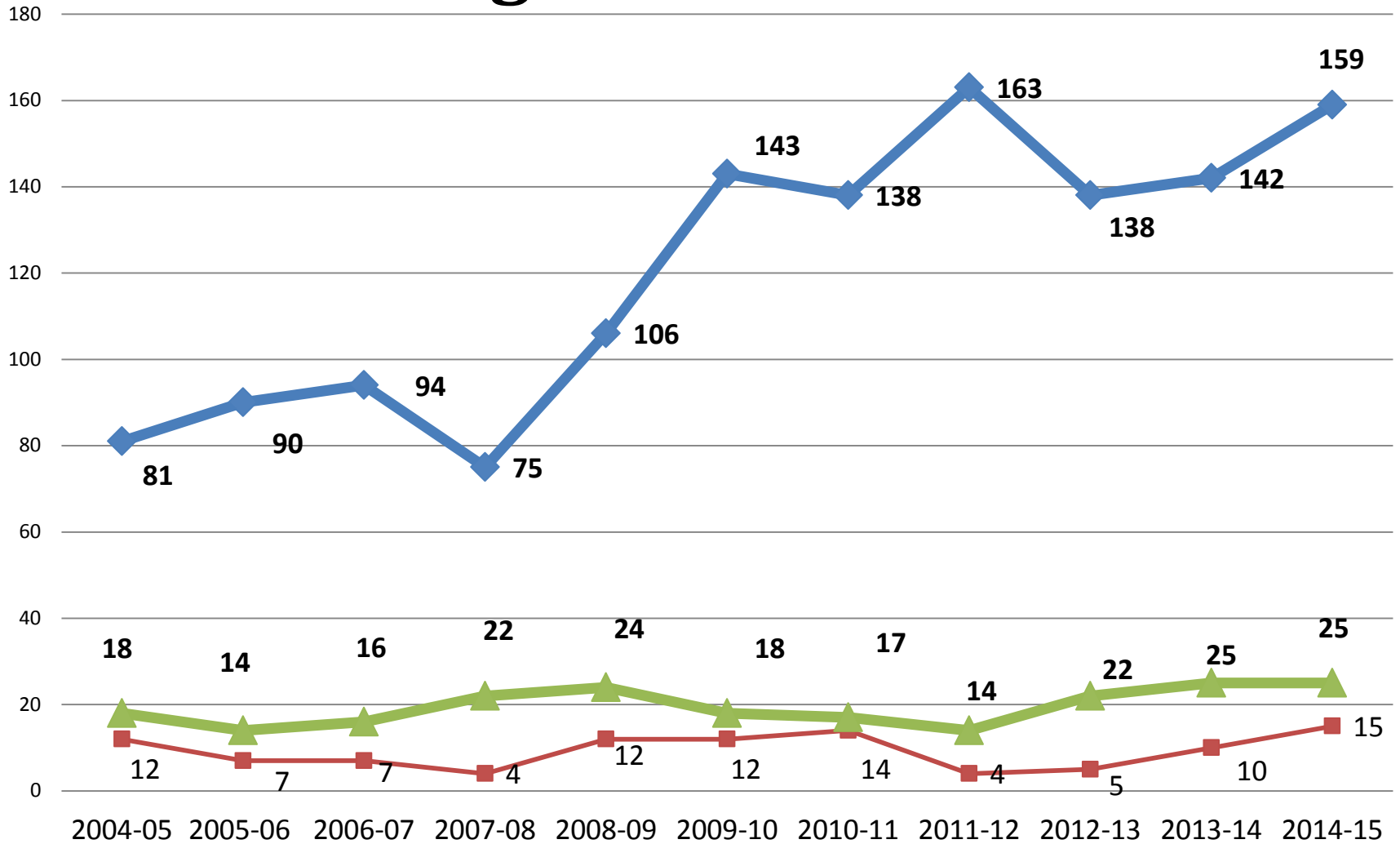
ChE: 78 scholarships to 64 students, **totaling \$200K**

Purdue (including ChE): 397 scholarships to 223 students, totaling **\$2.04M** (excluding financial aid); average: **\$3,400 per student**



ChE Scholarship Recipients, Fall 2015

Degrees Conferred



◆ BS ■ MS ▲ PhD

Chemical Engineering Faculty



Mahdi Abu-Omar
PhD, Iowa State, 1996



Rakesh Agrawal
ScD, MIT, 1980



Osman A. Basaran
PhD, Minnesota, 1984



Stephen P. Beaudoin
PhD, NC State, 1995



Bryan W. Boudouris
PhD, Minnesota, 2009



James M. Caruthers
ScD, MIT, 1977



David S. Corti
PhD, Princeton, 1997



Elias I. Franses
PhD, Minnesota, 1979



Raj P. Gounder
PhD, UC Berkeley, 2011



Robert E. Hannemann
MD, Indiana, 1959

Chemical Engineering Faculty



Michael T. Harris
PhD, Tennessee-
Knoxville, 1992



R. Neal Houze
PhD, Houston, 1968



Jeffrey P. Greeley
PhD, Wisconsin
Madison, 2004



James D. Litster
PhD, Queensland, 1985



Julie C. Liu
PhD, Caltech, 2006



Jeffrey T. Miller
PhD, Oregon State, 1980
(To join Spring 2015)



John A. Morgan
PhD, Rice, 1999



Zoltan K. Nagy
PhD, Babes-Bolyai, 2001

Chemical Engineering Faculty



Joseph F. Pekny
PhD, Carnegie Mellon, 1989



R. Byron Pipes
PhD, Texas-Arlington, 1972



Vilas Pol
PhD, Bar-Ilan, 2005



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
Head

Chemical Engineering Faculty



Jeffrey D. Varner
PhD, Purdue, 1997



Nien-Hwa Linda Wang
PhD, Minnesota, 1978



Phillip C. Wankat
PhD, Princeton, 1970



You-Yeon Won
PhD, Minnesota, 2000



Chongli Yuan
PhD, Cornell, 2007

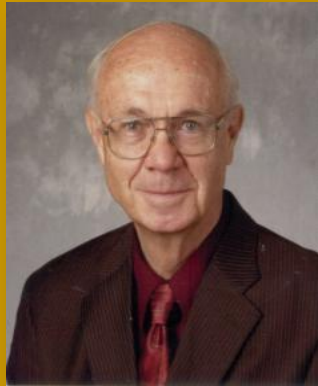


Enrico N. Martinez
Professor of
Engineering Practice
PhD Notre Dame, 1972

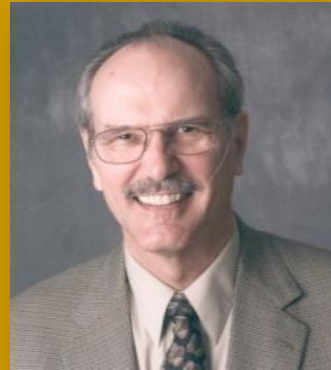


Jeffrey J. Siirola
Professor of
Engineering Practice
PhD Wisconsin Madison,
1970

Chemical Engineering Emeritus Faculty



Ronald P. Andres
PhD, Princeton, 1962



W. Nicholas Delgass
PhD, Stanford, 1969



Robert A. Greenkorn
PhD, Wisconsin, 1957



Nancy W. Y. Ho
PhD, Purdue, 1968



George T. Tsao
PhD, Michigan, 1960

Class of 2015 – group 1



SCHOOL OF CHEMICAL ENGINEERING PURDUE UNIVERSITY

Class - May 2015

ROW 1: Y. Liu, R. Zheng, X. Zhu, C. Carlstrom, E. Tomczak, M. Riccitelli, N. Chaubey, S. Davis, L. Frederick, E. Wachs, A. Tungare, D. Li, D. Fan

ROW 2: M. Chen, K. Krull, A. Jenssen, M. Simek, I. Frost, S. Lueders, J. Merritt, D. Gaerke, K. Young, K. Phleger-Schumacher, G. Bai, P. Donovan

ROW 3: Z. Yu, M. Jahns, P. Lodise, S. Morgan, S. Ashmun, R. Frederickson, E. Lehmann, P. Jain, A. Kuhn, R. Smyth, F. Pirok, H. Fanzini, Y. Wang

ROW 4: R. Hsu, A. Heinimann, M. Schaefer, Z. Ulmer, K. Mohan, A. Jena, M. Stambro, D. Tate, S. Zhao, L. Miao

ROW 5: P. Bopaiah, J. Lynch, R. Martis, H. Xu, J. Cronauer, S. Kaynish, A. Vogler, A. Sivaraman, T. Lehnert

Class of 2015 – group 2



SCHOOL OF CHEMICAL ENGINEERING PURDUE UNIVERSITY

Class - May 2015

ROW 1: A. Tackaberry, X. Li, N. Shawaluddin, H. Mansour, A. Newcomer, S. Wong, E. Geller, M. Rostochak, J. Peterson, B. Alfakher, D. Midkiff

ROW 2: W. Goh, S. Stephanie, S. Rogers, S. Cafmeyer, H. Lew, B. Lins, C. Banasiak, M. Bennett, K. Bergman

ROW 3: A. Mischke, J. Boline, M. Kerner, D. Williamson, M. Trujillo, S. Panuganty, A. Werling, R. Smyth, B. Biega, I. Mixer

ROW 4: K. Stump, H. Jiang, X Qian, R. Pitzer, J. Roback, M. Booth, R. Khakimov

ROW 5: Q. Hu, J. Huber, K. Jochem, J. Eisses

2014 College of Engineering Staff Excellence Awards, November 2014



Jenny Mamph, Customer Service Excellence Award

2014 College of Engineering Staff Excellence Awards, November 2014



Jenny Mamph, Customer Service Excellence Award

New Faculty Additions

August 2015



Jeffrey D. Varner

Professor

B.S., Purdue, 1992

Ph.D., Purdue, 1997

Research Interests: metabolic and signaling pathways, complex signaling networks, biochemistry of blood and blood coagulation



Distinguished Engineering Alumnus

February 2015

Rohit Khana

MSChE '80, PhD '83

Senior Research Fellow and
Head of External Technology
and Collaborations for
Worldwide Pharmaceutical
Sciences, Pfizer Inc.

Pinnacle Award

February 2014



Jay (BSChE '74) and **Cynthia Ihlenfeld** (center) with Provost **Tim Sands** (left) and **Arvind Varma**

Presidential Safety Award

February 2015



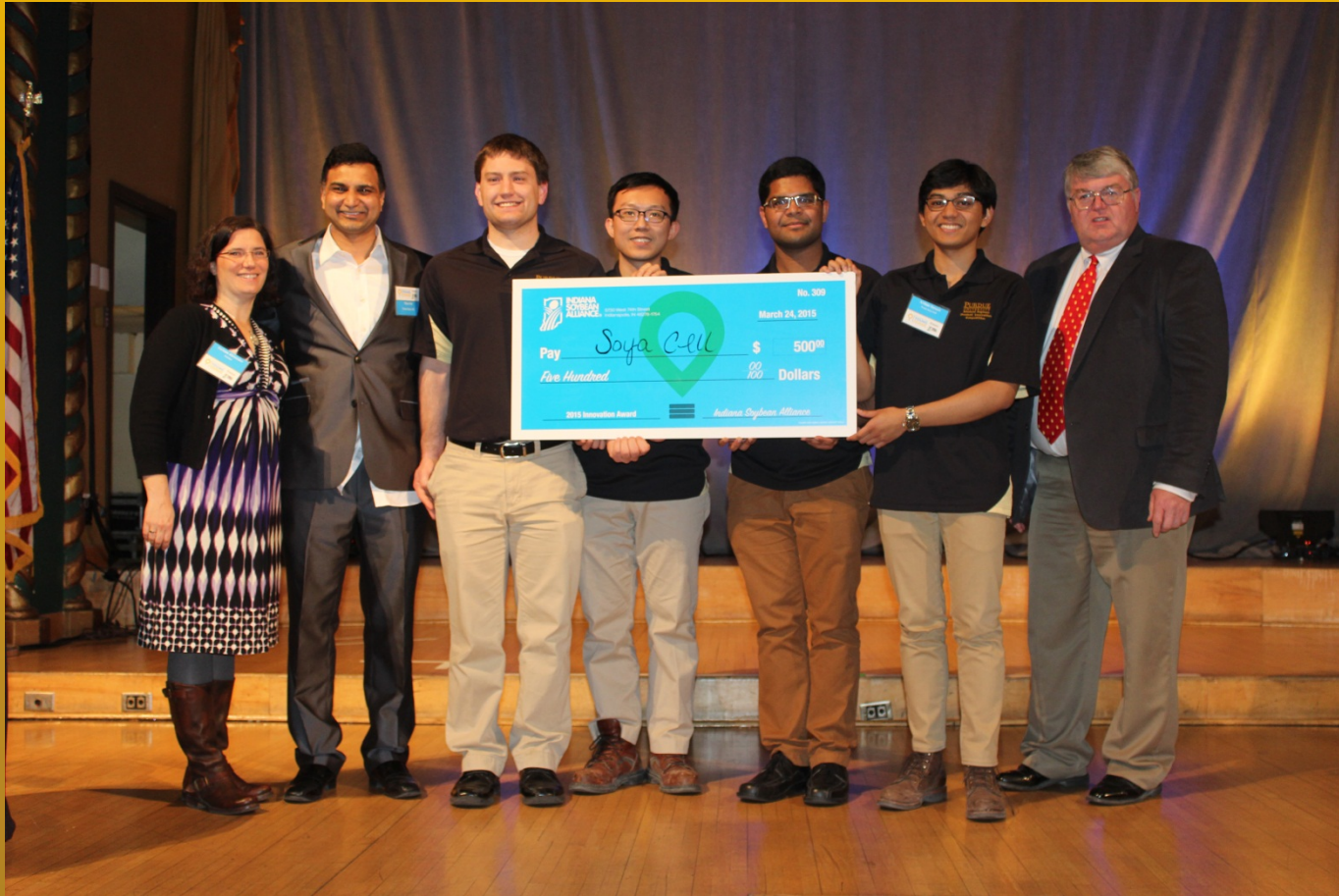
Viktor Cybulskis

Chem-E Car Competition



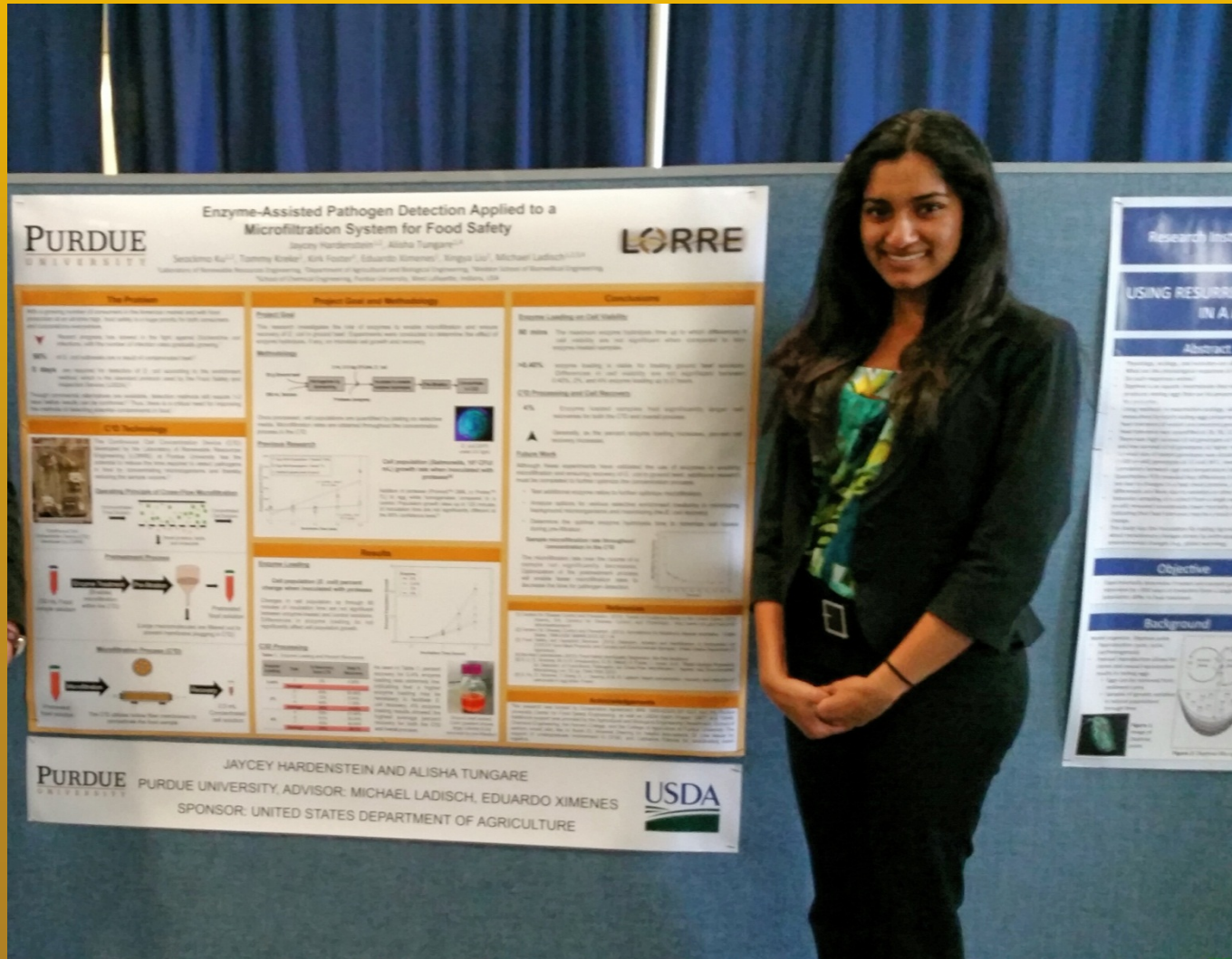
Purdue ChE Chem-E Car Team at the 2014 AIChE Competition

2015 Soybean Competition



Nicholas Dininger, Arthur Dysart, Ram Saraswat, & Jialiang Tang won the People's Choice Award in the 2015 Student Soybean Product Innovation Contest sponsored by the Indiana Soybean Alliance, Purdue, 2015.

Posters on the Hill



Alisha Tungare (BS ChE 2015) participated in the "Posters on the Hill" event in Washington, DC, April 2015

Women in ChE Seminar

April 2014



Roberta Gleiter (BSCHE '56) and
Ronna Robertson (BSCHE '92)

Women in ChE Seminar

April 2014





Purdue ChE Spring Newsletter

April 2015

SPRING 2014
CHEMICAL ENGINEERING
NEWSLETTER

UNIT OPERATIONS LABORATORY **THEN AND NOW**



Arbor Day

May 2014



Senior Banquet

May 2015



Senior Banquet

May 2014



Senior Design Project Team Awards

May 2014



Staff Retreat

July 2015



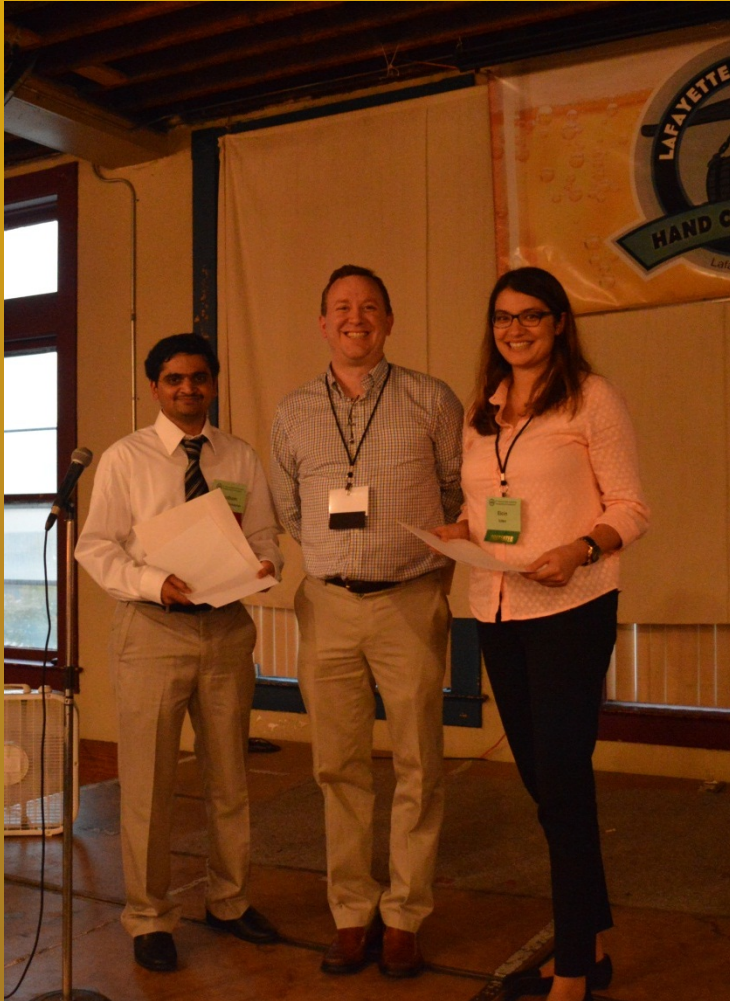
GSO Research Symposium

August 2014



GSO Research Symposium Awards

August 2014



GSO Research Symposium Awards

August 2014



2014 GSO Officers



Nicole Devlin

President



Agnes
Mendonca

Vice President
and Treasurer



Sydney Hollingshead

First-year
Representative

2014 GSO Officers



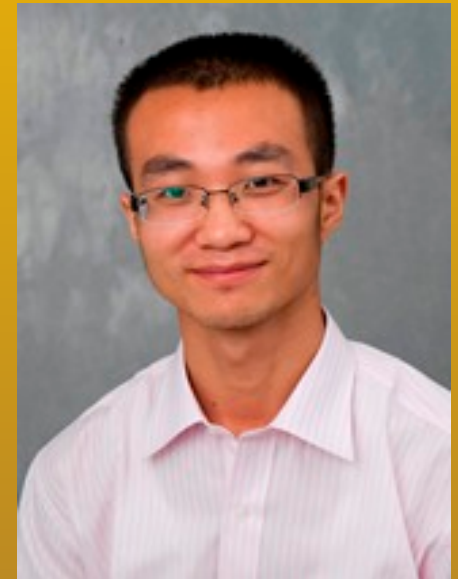
Kevin W. Brew

Student
Advocacy
Officer



Arthur Dysart

Inter-GSO
Events Committee
Representative



Yanran Cui

Purdue
Graduate Student
Government
Representative

2014 GSO Officers



Michael Cordon

**Social Events
Committee
Co-chairperson**



John Di Iorio

**Sports Events
Committee
Co-chairperson**



Nathan J. Davis

**Outreach Committee
Chairperson**

2014 GSO Officers



Arthur J. Shih

**Co-curricular
Committee
Chairperson**



**Gautham Madenoor
Ramapriya**

**Sustainability
Committee
Chairperson**



Xin Zhao

**Safety Committee
Chairperson**

AIChE

**Austin Tackaberry, senior
Chair of the National
Executive Student
Committee**

AIChE, 2014-15

Selected for the
John J. McKetta Undergraduate
Scholarship Award
AIChE, 2014



PPA Leadership

The Purdue Professional Practice Ambassadors leadership team includes four ChE students (from left to right):



Pushkaran Palani, senior

- President Professional Practice Ambassadors (Co-OP), 2015
- 3rd ChE student in a row to hold this position

Courtney Panther, junior

Samuel Steiger, senior

Lauren Shotts, junior

ChE Study Abroad – Singapore

- 2 weeks during May 2015
- 26 undergrads
- First study abroad designed specifically for ChE students
- 3-credit technical elective
- Hosts: National Univ. of Singapore, 3M, DuPont



ChE Student Ambassadors

Class of 2015



Isaura Frost



Krystopher Jochem



Elizabeth Geller



Katherine Loehr

ChE Student Ambassadors

Class of 2016



Alex Muller



Andrew Parker



Katherine Tomera



Lilly Myers



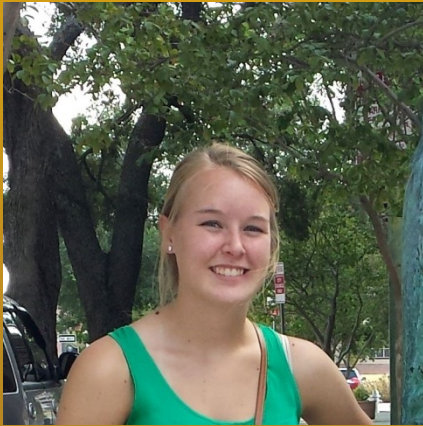
Beata Strubel



Chelsey Wallace

ChE Student Ambassadors

Class of 2017



Kirsten Ivkovic



Devin Zuck

BP Whiting Refinery Tour

September 2014



2014 OChE Awards



Rob Crane (MSChE '94, PhD '97)
Planning Executive
ExxonMobil Research & Engineering

2014 OChE Awards



Jefferson (Jeff) C. Lievens (PhD '84)
Executive Vice President of Process Technology, Genomatica
with Professor Linda Wang and Head Arvind Varma

2014 OChE Awards



Stephen (Steve) R. Murrill (BSChE '71, center, President and owner of Profile Plastics in Lake Bluff, Illinois
With Marilyn and Robert Forney (left) and his family

Scholarship Banquet

October 2015



Scholarship Banquet

October 2015



Scholarship Banquet

October 2015



Scholarship Banquet

October 2015



Procter and Gamble Tour

March 2015



Frito Lay Tour

April 2015



ChE-SAC and AIChE Pancakes

April 2015



Graduate Student Awards



Joseph Kubal (right) received the
???

Graduate Student Awards

Mariana Moreno
Outstanding Teaching Assistant

Graduate Student Awards



Emre Gencer
Outstanding Teaching Assistant

Graduate Student Awards



Emre Gencer
Outstanding Teaching Assistant

Grad Student Awards



From Left: **Aniruddha Kelkar** (Outstanding Research Award), **Kaiwalya Sabnis** (Magoon Teaching Award), **Rohit Jaini** (Magoon Teaching Award), **Frank Devilbiss** (Outstanding Service Award), **McKay Easton** (Magoon Teaching Award),

Senior Banquet, May 2015



Varma, Sawyer, Joshua Clark, Kristopher Jochem, Haefa Mansour, Austin Tackaberry

Senior Banquet, May 2015



Varma, Elizabeth Geller, ???

Senior Banquet, May 2015



Isaura Frost ??

I2R, May 2015



Isaura Frost ??

I2R, May 2015



Victor and ??

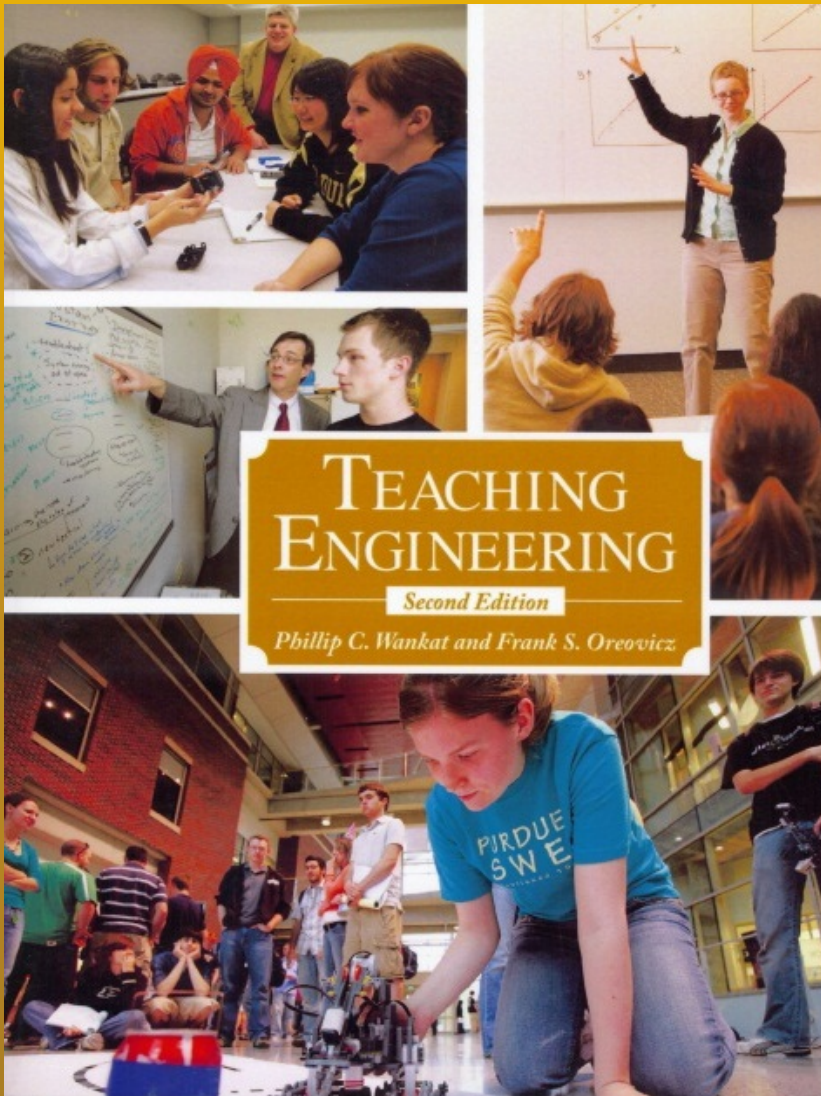
UG Student Awards



Justine Morris

- **Alexis Brannan**, junior, Chair, EXPO Career Fair, Purdue, 2015
- **Ryan McDonnell**, BS 2015, received the Louis Sudler Prize in the Arts, Purdue, 2015
- **Rachel Rahn**, junior, received the 1st place poster award, SRC TECHCON, 2015
- **Wen Zhong**, junior, President, Lafayette Toastmasters Club, 2015-16

Books



**TEACHING
ENGINEERING**
Second Edition
Phillip C. Wankat and Frank S. Oreovicz

Phil Wankat
Teaching Engineering

Second Edition
Purdue University Press
2015

Fundamentals Lab



Fundamentals Lab



Research Focus Nagy



Research Focus Reklaitis



Research Focus Gounder



Research Focus – Boudouris



Research Focus Catalysis Center



Research Focus

Pol

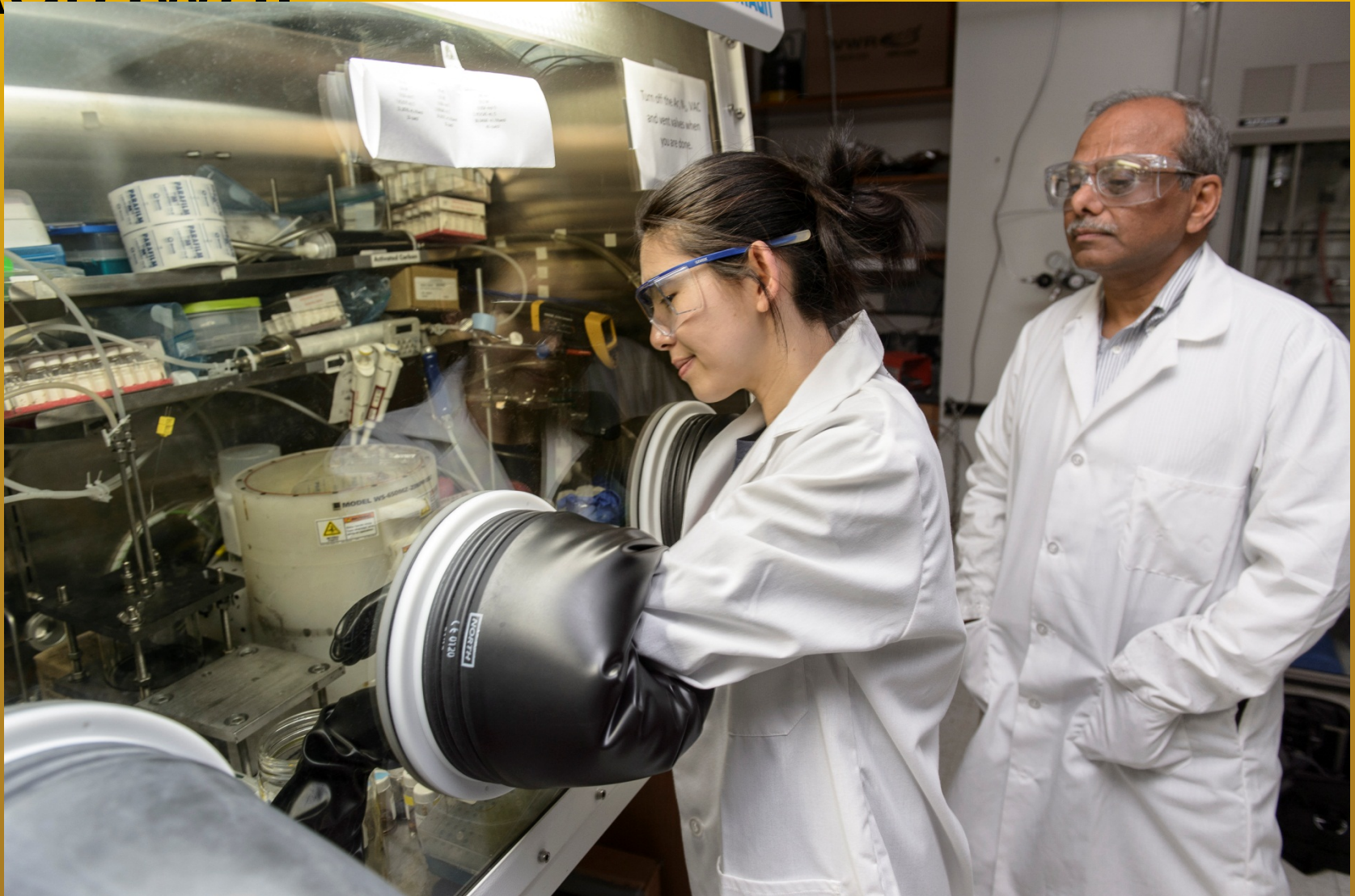


Research Focus Morgan



Research Focus

Agrawal



Thank you!



Thank you!



Thank you!

