Welcome back! I am sure that everyone feels that summer disappeared much too quickly. It did.

We have a number of new students joining the department as sophomores, graduate students and as exchange students. The sophomores are, of course, familiar with the campus and CMU life. Now it is time to delve seriously into Chemical Engineering and become integrated into the department. For the new graduate students there will be many new things to get used to and many new names to learn. If any of you have any problems getting organized, please be sure to let us know and we’ll do everything that we can to help get you settled.

There have been a few changes to the faculty and staff. Bob Tilton returned from his sabbatical and is now a Full Professor, having been promoted last year. Unfortunately, Elizabeth Schwertfuehrer left us at the end of the last semester to take a new position off campus. We are very fortunate, however, to have Cindy Peters join us to take the position of Business Coordinator. The other addition is Shelley Anna who is an Assistant Professor of Mechanical Engineering but has a courtesy appointment in Chemical Engineering. The last significant change over the course of the summer has been to Professor Jim Schneider, who is now a married man. Congrats!

As many of you know there are plans underway to renovate Doherty Hall. It needs it badly. Over the course of the summer several steps have been taken in this direction. A firm of architects has been hired to prepare schematic drawings of the Phase II renovation. Phase I was the work done to the west end of the building and the creation of the new undergraduate labs. Plans are in the midst of being developed and are slowly converging. The intention is that these renovations will create modern lab space for research in Chemical Engineering and in Biomedical Engineering in addition to the creation of new classroom space. We hope that these plans will be close to finalized by the end of this semester. One of the steps that has already been taken towards this renovation is the move of a number of the bio-engineering groups to lab space in the PTC building down by the river. This has relieved some of the space crowding that has existed in Doherty Hall and will make the logistics of renovation much simpler.
**Department News**

All members of the department are invited to attend the Chemical Engineering Lubrizol Analytic Laboratory Dedication on Wednesday, September 24, 2003, from 4:30-5:30 p.m. in Doherty Hall A100. **Matt Cline** has spearheaded the project from submission of the proposal to the Lubrizol Corporation to designing and constructing the new lab.

We are proud to be having Mr. Roy Weiland give the **2003 Herbert L Toor Chemical Industry Lectureship** on November 11, 2003, from 4:00-5:00 p.m. in Doherty Hall, Room 1112. Mr. Weiland will speak on “Overcoming Obstacles to Technology Application”. Mr. Weiland is an alumnus of the department who had a long and illustrious career with Exxon Corp. He retired in 1996 and, since then, has undertaken a variety of consulting assignments.

**SWE Engineering Your Future 2003**

Two engineering workshops for middle and high school girls were organized by the Carnegie Mellon SWE chapter this summer during the month of July. The one week workshop for 40 high school girls involved the design of a vehicle that carried a precious passenger (a Pringle potato chip!). All engineering departments were involved in some aspect of the week-long design process. Chemical engineering (lead by **Annette Jacobson** and **Rose Frollini**) provided guidance regarding choice of fuel for the vehicle. The competition included the following categories: fastest, most cost effective and safest vehicle (with regard to the Pringle passenger).

The middle school program introduced students to engineering and provided hands-on activities that demonstrate each engineering discipline. This year marked the 10 year anniversary of this SWE outreach program to promote engineering careers to youth.

Thanks to the following chemical engineering volunteers who participated in this event: **Bruno Marques, Marvi Matos, Danilo Pozzo, Matt Preston, Michael Gerber, Vianey Garcia-Osorio, Jessica Tucker, Anjanette Koritnik**.

Volunteer outreach opportunities for the fall semester sponsored by Chemical Engineering include SWE High School Day on Friday, October 17 and National Chemistry Week at the Carnegie Science Center on Friday, October 24. Additional details will be provided in the near future.

**Faculty News**

**Professor Mike Domach**’s book, *Introduction to Biomedical Engineering* is now officially in production at Prentice-Hall. It will available for distribution in December, 2003.

**Professor Ignacio Grossmann** is spending the first part of his sabbatical leave (September to December, 2003) at the University of Cantabria in Santander, Spain, under a Senior Fulbright Lectureship, and the second part (January to May 2004) at the ETH-Zurich in Switzerland. He will also visit Imperial College in London in June 2004.
Professor David Sholl recently participated in a symposium held by the CMU Drama School to introduce screenwriters to current topics in scientific research. This event was part of a Sloan Foundation program to promote the development of screenplays featuring science and technology. David assures us that when the department appears on the big screen we will all seem more good looking and glamorous.

Professor Sholl has been invited to present his group's work on atomic-scale modeling of diffusion in zeolites and carbon nanotubes at a CECAM workshop in Lyon, France in October.

Professor Bob Tilton has returned from a six month sabbatical leave in the Department of Chemistry, Surface Chemistry Division, at the Royal Institute of Technology in Stockholm, Sweden. Bob's attention was mainly focused on experimental measurements of surface forces in solutions of surfactants and polyelectrolytes, including novel semi-synthetic polyelectrolytes derived from natural materials. While in Sweden, Bob was invited to be the external speaker for a joint symposium in Gothenburg held between the Center for Surfactants Based on Natural Products and the Center for Amphiphilic Polymers. These Competence Centers are collaborations among researchers at the Royal Institute of Technology, Lund University, Chalmers University, and industries from the Nordic region and the United Kingdom. It is possibly prophetic to note that Bob and his family lived just across a narrow bay from the headquarters of the Swedish Royal Academy of Sciences, the organization responsible for the Nobel Prizes.

Professor Bob Tilton has been named to the Editorial Advisory Board for the Journal of Colloid and Interface Science, published by Academic Press.

Congratulations to Professor Lynn Walker who received the Kun Li Award for Excellence in Education at the 2003 Commencement ceremony. The Kun Li Award has been established to promote excellence in teaching in chemical engineering, and to recognize Emeritus Professor Kun Li who taught in the department from 1962 to 1988.

Staff News

Welcome to Cindy Peters! Cindy joined the ChemE staff in May as Business Coordinator and her office is in DH 1101. Cindy worked at CMU for 13 years prior to joining our staff. Be sure to stop in to give Cindy a warm welcome!

Undergraduate News

2003 Chemical Engineering Alumni Scholarships.

Congratulations to the following recipients:

Kenneth Hu
Joseph McDermott
Mitchell Tai
Nicholas Scocozzo
Sunil Raman

TOC Breakfast
The TOC Breakfast for seniors and potential employers is scheduled for Thursday, September 18, 2003, at 8:00 a.m in the Rothfus Lab. Information on the TOC and list of companies seeking chemical engineers can be found in http://www.cmu.edu/toc/

Undergraduates who are interested in research opportunities in the department should contact Dr. Annette Jacobson. Dr. Jacobson’s office is DH 310B, or e-mail at jacobson@andrew.cmu.edu.

Members of 2003 SAC – Student Advisory Council

Sophomores: to be elected

Juniors: Karoline Evans
Nicole Gartner
Dana Gary

Seniors: Kris Howard
Eric Boudreaux
Janice Hou

2003 Officers of AIChE Student Chapter
(American Institute of Chemical Engineers)
President: Ashraf Abu-Akeel
Vice President: Brendan Mac
Treasurer: Chelsea Monty
Industry Liaison: Becky Gerard
University Liaison: Nathan Lazur
Social Chair: Luke Holbrook
Sophomore Representative: Danielle Block
Faculty Advisor: Professor Jim Schneider

Placement statistics for the 2003 Senior Class are as follows:
The average starting salary was $51,937. The high was $57,000 and the low $38,000.

Seniors were hired by the following companies:
ExxonMobil Lubrizol
Sentech PPG
Cytec Industries Navy
L’Oreal National Institute for Drug Abuse
Navy-Nuclear Engineering Program PPG
DNFSB Navy-Nuclear Propulsion Office
BASF-Japan
Centocor-Johnson & Johnson
MIT
The class of 2003 went to the following graduate schools:

Lake Erie College of Osteopathic Medicine
CMU – MChE
SUNY-Buffalo
MIT-PhD in Biological Engineering
Louisiana State University
University of Pittsburgh-PhD in Bioengineering
Georgia Institute of Technology
Stanford University
Yale University – PhD in Biomedical Engineering
Congress Bundeitaz Youth Exchange in Germany
University of Maryland - PhD

Congratulations to the following students who were on the CIT Dean’s List for Spring 2003:

SENIORS
Brian Baker
Anthony Balducci
Christopher Csider
Jordan Green
Anastasia Gribik
David Gutowski
Kevin Hughes
Elizabeth Newton
Christopher Pierce
Sara Royce
Alexander Smith
Diana Yoon

JUNIORS
Gregory Allen
Benjamin Anderson
Zachary Britton
Lisa Campus
Eveline Chao
Michael Danielson
Tim Donegan
Rebecca Gerard
Matthew Helgeson
Kristopher Howard
Brendan Mack
Parag Shah
Mithun Kumar Shenoi
Derek Underwood

SOPHOMORES
Steven Back
Matthew Dalka
Karoline Evans
Gene Pan
Baris Polat
Megan Tzeng

FRESHMEN
Aric Anderson
Hanish Dayal
Aashish Goswami
Kenneth Hu
Mary Mack
Nabil Mansouri
FRESHMAN (continued)
Amol Shah
Anita Shukla
Aaron Straub
Daniel Sunday
Mitchell Tai
Jordan Umeda

Welcome to our Sophomore Class!
Aric Anderson
Elizabeth Arnade
Jaisen Bell
Danielle Block
Alan Cacciamani
Derrick Chan
Nora Chen
Hanish Dayal
Morgan Dileo
Laura Gabby
Eva Goellner
Aashish Goswami
Stephen Hersman
Kate Hollabaugh
Kenneth Hu
Jasmine Hung
Brian Hunter
Yea Na Kim
Lara Kovell
Hannuri Kwon
Joshua Lord
Nicolette Louissaint
Mary Mack
Nabil Mansourri
Shawn Marsh
Joseph McDermott
Aaron Ngo
Nigel Offor
Reema Patel
Alyse Prince
Sunil Raman
Stanley Revers
Robert Russell
Thomas Sabram
Muhammad Zeid Saigol
Jennifer Sandidge
Nicholas Scocozzo
Amol Shah
Ann Shchelokova
David Shin
Anita Shukla
Akil Simon
Shailendra Singh
Brandon Smith
Kathryn Smith
John Snyder, Jr.
Patricia Stallings
Aaron Straub
Daniel Sunday
Mitchell Tai
Alexandra Tsarenko
Jordan Umeda
Sebastian Vega-Fuentes
Latoya Williams
Ray Wong
Lu Yang

Exchange Program Participants Welcome Back!

RETURNING Exchange Program Participants

Aachen:
Brian-Mathias Hodge
Imperial College:
Jarett Feldman
Mark Goldman
Janice Hou
Adam Welander

2003-2004 Exchange Program Participant
Imperial College:
Brian Leukart

Exchange Program Deadline is January 16, 2004. Applications may be picked up in the Student Office DH 1101. See Cindy Peters.

Welcome to our Exchange Students!

Aachen University, Germany
Silke Allert
Uwe Küssel
Claas Michalik

Imperial College, London
Reva Cipto
Andrew Ferguson
Qiaoling Loh
Andrew Martin

EPFL
Antoine Berthoud

PISCES—Practical Internship for senior Chemical Engineering Students

Welcome back to last year’s participant
Richard Koontz (Fall ‘02 & Spr. ‘03)

The Senior Banquet
The fifth annual senior banquet sponsored by AIChE and the department was held on May 2 at the Engineers Club of Southwestern Pennsylvania. The evening featured the usual awards by students to faculty and other students. A good time was had by all!

Steven Back accepted a summer position at the University of Colorado's NSF-sponsored Research Experience for Undergraduates (REU) site.

Graduation 2003 Awards

The Mark Dennis Karl Outstanding Teaching Assistant Award recipient was Kevin Sirk
AIChE Professional Promise Award was presented to Earl Osman Solis.

Ken Westerberg Award was presented to Anthony Balducci. The memorial fund "The Ken Westerberg Memorial Prize for Excellence in Chemical Engineering Research" has been established by our department with a generous contribution from Aspen Technology. This prize will be presented every year during the departmental graduation ceremony to a senior who has shown exceptional promise for research in chemical engineering. This prize has been established in the memory of Ken Westerberg who died of Leukemia at the very young age of 35. Ken was the son of Art & Barbara Westerberg.

Geoffrey D. Parfitt Award for Excellence in Research was presented to Jordan Green.

American Institute of Chemists Foundation Award “For Ability, Character, Scholastic Achievement and Potential” was presented to Brian Baker.

Carnegie Mellon McCabe Society honors the memory of Warren McCabe, one of the great leaders in this department's history, by recognizing students who show an unparalleled dedication to their community. The inductees from the Class of 2003 are John Coleman, Melanie Harris, Amy Timko, Libby Williams, Diana Yoon.

Graduate News

New Ph.D. Students

<table>
<thead>
<tr>
<th>Name</th>
<th>UG School</th>
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<tbody>
<tr>
<td>Layton Baker</td>
<td>Calif. State Polytechnic University</td>
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<tr>
<td>Haigang Chen</td>
<td>Shanghai Jiao Tong University</td>
</tr>
<tr>
<td>Stephen Craig</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Travis Crites</td>
<td>West Virginia University</td>
</tr>
<tr>
<td>John Dawson</td>
<td>Villanova University</td>
</tr>
<tr>
<td>Eduardo Dozal</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Muge Erdirk</td>
<td>Bogazici University</td>
</tr>
<tr>
<td>Shaun Ferchak</td>
<td>Bucknell University</td>
</tr>
<tr>
<td>James Hoggard</td>
<td>Pennsylvania State University</td>
</tr>
<tr>
<td>Ye Huang</td>
<td>Tsinghua University</td>
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<tr>
<td>Joanna James</td>
<td>Washington and Lee University</td>
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<tr>
<td>Ramkumar Karuppiah</td>
<td>Indian Institute of Technology, New Delhi</td>
</tr>
<tr>
<td>Yoshiaki Kawajiri</td>
<td>Kansai University</td>
</tr>
<tr>
<td>Daniel Kuntz</td>
<td>West Virginia University</td>
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<tr>
<td>Timothy Lane</td>
<td>University of Delaware</td>
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<tr>
<td>Israel Owusu</td>
<td>Cornell University</td>
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<tr>
<td>Jeffrey Pierce</td>
<td>Northeastern University</td>
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<tr>
<td>Jeffrey Savard</td>
<td>Worcester Polytechnic Institute</td>
</tr>
<tr>
<td>Alapati Sudhakar</td>
<td>Indian Institute of Technology, Delhi</td>
</tr>
<tr>
<td>Meghan Swanson</td>
<td>Case Western Reserve University</td>
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New M.S. Students

<table>
<thead>
<tr>
<th>Name</th>
<th>UG School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jae Gun Jung</td>
<td>Hanyang University</td>
</tr>
</tbody>
</table>
New M.ChE Students  UG School
Eva Chu  CMU
Clint Edelman  CMU
Richard Fong  CMU

Congratulations to our second year Ph.D. students who passed their qualifier exams.
Calvin Chan
Anjanette Koritnik
Bhawna Bhatia
Haibin Chen
Christy White
Kevin Sirk
Shane Grosser
Murni Ahmad
Kendell Jillson

Congratulations to those that passed their thesis proposal:
Ashish Agarwal
Maame Yaa Poku
Cong Xu
Hao Zhou

Congratulations to those that passed their thesis defense
Juan Cabada-Amaya
Charles Stanier

CHEGSA News
This year's symposium will be held on (Thursday and Friday) October 16th & 17th, 2003.
We are pleased to announce that Professor John M. Prausnitz from the University of California,
Berkeley will be this year's Keynote Speaker. For more information, please see: http://symposium.cheme.cmu.edu/103/index.html

2003 AIChe Convention
The department will host the Annual Alumni Reception at the San Francisco, CA

Visiting Scholars – Welcome!
Tao Zhu from the University of Pittsburgh is working with Professor Domach’s group.
Ting Han from Ben-Gurion University is working with Professor White’s group.
Kara Huff-Hartz from Purdue University is working with Professor Donahue’s group.
**Getting to Know the Faculty and Staff**

**Professor Andy Gellman**

Last year when we were putting together the first newsletter to be sent out under the auspices of my headship I found that the only three faculty members to have avoided writing personal profiles were Ignacio Grossmann, John Anderson and myself. Since Ignacio had so much new time on his hands he drew the lucky straw. John’s up next!

In keeping with past tradition, let me begin at the beginning. I was born and raised in the Great White North. Winnipeg, Manitoba is about 500 miles north of Minneapolis and it gets mighty cold. On the coldest day on which I had to wait for the school bus the temperature was \(-40\,^\circ C\) and sunny. Erik Ydstie and Steinar Hauan might be able to top (or bottom) that but it won’t ever happen in Pittsburgh and we are all better off for it. We moved to Ottawa, Ontario when I was 12 and traded frigid temperatures for 120” annual snow falls. That’s a bad deal when you have to shovel snow with a shovel. To avoid going through a 13th grade in Ontario (and shoveling), I went back to Winnipeg and lived in a boarding school for 11th and 12th grades. My Dad’s first purchase that winter was a snow blower!

After graduating (12th grade) I headed to the real warmth of southern California. Unfortunately, Caltech is a long way from the beach and they don’t really leave you enough time as a student to enjoy the sun anyway. Having had to live in a boarding school forced me to grow up a little early but as it turned out that was fortunate because on the scale of nerdy places, Caltech makes CMU look like USC. Growing up there would have been a disaster. When I arrived at Caltech I thought that I wanted to be a chemist because physics seemed too easy. By the end of freshman physics I still wanted to be a chemist but for the other reason. The average on our first physics midterm had been 13/60 and it didn’t get much better.

I always intended to return to Canada but at about the time that I realized that I would need to get a PhD I also realized that Canada was not the place to do it. Instead I went to Berkeley which was a great place to be a student. As you must realize by now, my route into chemical engineering was non-traditional, as is the case for a number of my colleagues. I went from Berkeley with a PhD in chemistry to do a postdoc in Cambridge, England (very wet) and then on to start as an Assistant Professor of Chemistry at the University of Illinois at Urbana-Champaign (very flat). My entrée into chemical engineering came when I interviewed for a position here in the spring of 1992. I interviewed for the position on a Thursday and John Anderson (then department head) called me at home on Sunday afternoon to offer me a position. Very impressive! That’s how I came to be a Chemical Engineer at CMU. Ten years later John called me at home again and that’s how I became department head. I may need to get caller ID.

CMU and Pittsburgh have been wonderful for me. One of the best things about working in academia is that you get to work with extremely talented people who really know what they are doing. In the case of this department they are also very nice and very collegial which makes coming to work in the mornings something to look forward to. In addition I have been able to live in and to visit numerous parts of the world and meet and work with people from even more. For me that has always been one of the most attractive aspects of academic life. The other has been the freedom to pursue my own interests. My mentors as a student were what I call ‘big thinkers’ and I have always tried to keep their philosophies in mind. The result is that my group and I have been able to do experiments that I never thought we would ever get to try. The hard part is that they never turn out the way that I expect.

The most recent change in my life has been getting married to my wife Nisha on Jan. 2, 2003 in Mumbai, India. The first day of being department head seemed to go pretty well so I felt that I was ready for this next big step. Who knows what’s next?