I wanted to extend a warm welcome to all our students to the new academic year 2002-2003! In particular, we enthusiastically welcome the sophomore class and the graduate students who are joining for the first time our department. I am sure you will all find a program that is intellectually challenging and that continuously strives for innovation and quality. While we are also known for the hard work in our program, we are also fortunate to have a friendly and supportive environment.

I announced in mid-May that I was stepping down as Department Head, effective January 1, 2003. The main reason for my decision is that I have now served eight years as Head. While I am satisfied with what we have accomplished in those eight years, I also think that it is time for a change and new ideas in the headship. We are extremely fortunate to have a very strong department so that looking outside for a new head was not even considered an option. We are very fortunate to have Professor Andy Gellman accept the new position as Department Head of Chemical Engineering. He brings outstanding experimental expertise for the major challenge that we face over the next few years, the $12 million renovation of Doherty Hall and the Chemical Engineering Research Labs. Moreover, he brings a new vision on how to make Chemical Engineering at Carnegie Mellon even better, and ensure that we obtain the recognition that we deserve among our peers. We should all look forward to the exciting tenure of the headship under Andy Gellman starting on January 1, 2003.

In the meantime, I am pleased to inform you that our faculty continue to be recognized. Professor Steinar Hauan was selected winner of the Ted Peterson Student Paper Award of the CAST Division of AIChE. Professor Todd Przybycien was named Head of the new Biomedical Engineering Department that will offer double major degrees, which should especially benefit Chemical Engineering undergraduates. On another note, in a recent study by the University of Michigan our department was found to be number 4 in terms of NAE members; number 8 in terms of research publications, and number 9 in both citations for publication, and in doctorate degrees. These measures clearly indicate the stature that our department is achieving among competing departments in the U.S. I should also mention that in 2000-2001 Chemical Engineering became the 3rd largest doctorate program at Carnegie Mellon after Computer Science and Electrical and Computing Engineering, which clearly is another clear measure of our strong commitment to research.

This semester we will be truly privileged to have Dr. Richard Gross, Vice President of R&D at Dow Chemical, deliver on September 5 the Herbert Toor Chemical Industry Lectureship. Dr. Gross, who is also chair of the Council for Chemical Research and recipient of the 2001 National Medal of Technology through Dow Chemical, has become the main spokesperson for chemical research in the U.S. This semester we will also have Dr. Mario Molina, a chemical engineer from MIT and Nobel Prize Winner of Chemistry, deliver the keynote lecture of the CHEGSA Symposium on October 17. I hope you all take advantage of these outstanding events.

I am also pleased to report that very good progress has been made in the $12 million renovation project of Doherty Hall. We are now in the phase where the architectural and engineering firms have been selected. We expect to see drawings of the project early in the Spring, and with a bit of luck, the start of the construction work in the summer of 2003!

I am sure you will enjoy reading about Spyros Pandis, who is featured in this newsletter. I wish you all a very productive and successful semester!

Ignacio E. Grossmann
**Department News**

The **2002 Herbert L Toor Chemical Industry Lectureship** is proud to have Dr. Richard M. Gross, Corporate Vice President of Research and Development at The Dow Chemical Company, speak on “Innovation in the Chemical Sciences and Technology” on September 5, 2002, from 4:00- 5:00 p.m. in the Singleton Room, Roberts Engineering Hall. Dr. Gross, through Dow, was recipient of the 2001 National Medal of Technology. He has become effectively the major spokesperson for research in the chemical industry. He is currently chair of the Council for Chemical Research, where he led the effort in producing a report on the economic value of research in the chemical industry.

**Large-scale renovations of Doherty Hall planned for the near future**

Fortunately for those of our older alumni who visit us periodically, finding their way around Doherty Hall is no harder than it was when they were students at Carnegie Mellon many decades ago. Unfortunately, for those of us working here over the longer term this has meant that things are no different than they were decades ago. Fortunately (and that was the last one), things are about to change. The Carnegie Mellon administration has announced that the renovation of Doherty Hall is at the top of the list of major new building projects on the campus. This is welcome news and is long overdue as the state of the building, and the research laboratories in particular, has fallen far below an acceptable standard.

To a large extent this has come about as a direct result of the persistence of Ignacio Grossmann and the occurrence of a number of laboratory floods and other incidents which have clearly brought the state of the building to the attention of the administration. To a lesser extent it is the result of a natural evolution of the building and construction developments that have occurred on the campus over the past few years. The imminent completion of the new undergraduate chemistry laboratory wing at the west end of Doherty Hall means that the first, second and third floors of the 200-wing will be vacated. This creates a large volume of space, which can be developed into new classrooms and laboratories. The current plan is that the second and third floors be renovated into modern new research laboratories, allowing the experimentalists in the Chemical Engineering to move out of the basement laboratories. The first floor of the 200 wing will be converted into a number of new classrooms and will alleviate much of the current pressure on classroom space. In addition much of the remainder of the east portion of Doherty Hall in which Chemical Engineering is housed will be renovated to improve faculty and student office space and the communal areas of the building.

The scope of the project will have an enormous impact on all of Chemical Engineering and will be the focus of a great deal of departmental effort over the next few years. At this point in time architects have been selected and contracted to conduct the programming and schematic design phase of the project. The detailed design and the construction phases, which will require several years, will then follow this. Although the project will cause some disruption in the immediate future as offices and labs are moved to accommodate construction we are all anticipating that this will be a wonderful opportunity for departmental growth. Construction of modern laboratories will clearly improve the research environment and help us to attract graduate students and new faculty. At the same time the renovations will do wonders to improve the working and learning environment in the department for students at all levels.
CPS Option now a minor
This year, for the first time, undergraduate students may choose to complete a minor in Colloids, Polymers and Surfaces. The sequence of courses in the CPS minor provides an opportunity to explore the science and engineering of fine particles and macromolecules as they relate to complex fluids and interfacially engineered materials. These topics are very relevant to technology and product development in industries that manufacture pharmaceuticals, coatings and paints, pulp and paper, biomaterials, surfactants and cleaning products, cosmetics and personal care products, food, textiles and fibers, nanoparticles, polymer/plastics, composite materials.

The Colloids, Polymers and Surfaces (CPS) minor for Chemical Engineering undergrads requires completion of five courses as follows:
06-221 Thermodynamics
06-609/09-509 Physical Chemistry of Macromolecules
06-607 Physical Chemistry of Colloids and Surfaces
06-426 Experimental Colloid and Surface Science
06-466 Experimental Polymer Science

Interested students should contact Dr. Annette Jacobson, CPS Program Director at jacobson@andrew.cmu.edu for more details.

Volunteers are needed for two Outreach Programs in October. On Friday, October 18, 2002. Chemical Engineering will participate in the Society of Women Engineer’s High School Day. On Friday, October 25, 2002, CPS and Chemical Engineering will sponsor two tables at the Carnegie Science Center during the American Chemical Society’s National Chemistry Week activities. If you are interested in volunteering, please contact Dr. Annette Jacobson jacobso@andrew.cmu.edu or Rosemary Frollini at rf3n@andrew.cmu.edu

This summer Lab Instructor Matt Cline and Junior chemical engineering student Tamika Perry taught an “Engineering Exposure” course to 31 minority High School students enrolled in the Summer Academy for Minority Scholars (SAMS) program. The program seeks to increase the pool of African American, Hispanic, and Native American students in careers in engineering, science and other math/science based majors. SAMS students participated in a rigorous academic schedule designed to enhance existing skills and competencies, and projects that provide opportunities to apply course content. In addition to their course in Chemical Engineering, they took courses in math, writing, computer skills, and logic.

Students carried out a wide variety of experiments in the Chemical Engineering course, including: flow measurement using orifice plates, viscometry, pressure drop in fluidized beds, unsteady-state heat transfer, and concluded the course with a design problem. Students were given the task to design a scrubber capable of removing Sulfur Dioxide emissions from cargo ships. While perhaps not the most viable solution to the problem, students wrestled with economic, political, and social aspects of a real-world problem. Students researched alternative solutions and then presented posters that detailed their findings at a Symposium.
Hewlett-Packard Company Philanthropy and Education Division has awarded the CPS Outreach Project an equipment grant of a notebook computer (and accessories) valued at approximately $2100. **Rosemary Frollini**, Lab Manager, Colloids, Polymers and Surfaces (CPS) program, was invited by the Northeast Contributions Committee to submit a proposal for an HP Community Grant. The Contributions Committee targets new and established non-profit programs in the Northeast Region that align with HP’s community grants goals of education and e-inclusion.

The **Colloids, Polymers and Surfaces Program** continues to have an active Outreach Program. This Spring and Summer, CPS Program Director Dr. Annette Jacobson and CPS Instructor/Lab Manager Rosemary Frollini conducted workshops for three Organizations.

In April, they were guest lecturers for the Pittsburgh Teachers’ Institute, a collaborative effort between Carnegie Mellon and Chatham College offered to Pittsburgh Public School Teachers. This year the semester-long seminar series was called “Everyday Science”. As an end result of participation in the Institute, teachers must write a curriculum unit that they will use in their classrooms during the next school year. Jacobson and Frollini offered a unit on Consumer Products in the Polymer Industry, including food and toys, and a workshop on soap manufacturing and product evaluation.

In July, they participated in the Society of Women Engineers “Engineering Your Future” Program. Along with other CIT Faculty, they introduced girls in grades 8-11 to concepts in engineering such as process design and manufacturing and let them experience the amazing properties of polymers.

Also in July, they gave three presentations for the Governors Institute for Physical Science Educators (GIPSE). This professional development program for science teachers is sponsored by the Pennsylvania Department of Education and is hosted at Carnegie Mellon by the Mellon College of Science. Teachers are in residence on campus for two weeks and have the opportunity to interact with University faculty, examine new inquiry-based activities in teaching chemistry, physics and biology, and become more knowledgeable about the state science standards.

The presentations which Frollini and Jacobson offered this year were:

- **Molecular Art**, a means of using art projects to teach concepts in physics and chemistry such as surface tension, wetting, pH, chemical reactions, density, miscibility, surfactants, and interfaces.
- **Macromolecules**, a unit on polymer structures, properties, and uses in consumer products.
- **Forensic Science**, using the SUPER SLEUTH kits developed with a grant from the Society of Analytical Chemists of Pittsburgh to study topics in chemistry and biology such as chromatography, pH, blood typing, qualitative analysis, standardized testing, and fiber manufacturing and analysis.
The Short Course “Conceptual Design, Optimization and Process Operations” was offered by Professors Biegler, Grossmann, Hauan and Westerberg on June 20-26, 2002. (Twelve participants from the US and several countries attended this course).

On August 12-17, 2002, Professors Biegler, Grossmann, and Westerberg presented this short course in Mexico at the Mexican Petroleum Institute.

The AIChE Student Chapter has developed a new website that is very nice! The URL address is: http://aiche.cheme.cmu.edu/. Di He created the AIChE student website. Di graduated this May and is working for General Electric. Jim Schneider is the faculty advisor for the department’s AIChE Student Chapter.

End-of-the-Year Picnic / DUNK TANK was held on May 8th, 2002 at the Cut Students, faculty, and staff gathered for the annual picnic marking another end of a school year. There were burgers and hot dogs, the usual. But this year, a new sight was seen: professors, staff and students being dunked. Also, seniors and officers gathered the night before to decorate the fence with chemical engineering memories. Pictures of this event can be seen at http://aiche.cheme.cmu.edu/AIChE-BBQ/Dunking.htm

Faculty News

Andy Gellman has accepted the offer to become Head of the Department effective January 1, 2003. We are very fortunate to have someone like Andy accept the position as the next Head.

Ignacio Grossmann has been identified as one of the top 15 most highly cited authors in the Computer Science discipline. Current Contents, ISI identified the top 15 researchers in the fields of Engineering, Physics, and Computer Science based on total citations from papers indexed from 1991 to October 31, 2001. Ignacio Grossmann was presented an award at the 2002 ASEE Annual Conference & Exposition in Montreal, Canada on June 17, 2002. http://www.cheme.cmu.edu/events/cited.html

Steinar Hauan has been selected as the recipient of the 2002 Ted Peterson Student Paper Award given by the Computing and Systems Technology Division of the AIChE. This award recognizes the 1999 Chemical Engineering Science paper entitled "Phenomena-based Analysis of Fixed Points in Reactive Separation Processes" and the 2000 Chemical Engineering Science paper entitled "Difference Points in Extractive and Reactive Cascades. I - Basic Properties and Analysis. "The award will be presented to him at the CAST Division dinner, which will be held at the AIChE Annual Meeting this fall in Indianapolis. http://www.cheme.cmu.edu/events/hauan.html

Mike Domach and University of Pittsburgh collaborators have won a second, consecutive competition for an award sponsored by Interagency Federal Program in Metabolic Engineering. The total of $2.2 million in funding will be used to develop
further a process for natural folic acid synthesis and to provide an improved understanding of the genetics and physiology of sporulating bacteria.

**Dennis Prieve** chaired the Gordon Research Conference on "Chemistry at Interfaces", which took place July 7-12 this past summer at Connecticut College. Unlike AIChE or ACS meetings, Gordon conferences are narrowly focussed on specific research topics of current interest. These conferences take place on the campus of prep schools or small colleges, mostly in New England. The registration fee includes meals in the cafeteria and accommodations in a dorm room with shared bath. This informal atmosphere promotes interaction among attendees. Talks occur in the mornings and evenings; afternoons are deliberately left free for social activities, which provides maximum opportunity for scientific exchange.

The main role of the chair is to choose the topics and invite the speakers. Four speakers at this particular conference were chosen from CMU: John Anderson, Sara Majetich (Physics), Jim Schneider and Lee White. Discussion leaders from CMU included both current faculty (Bob Tilton) and a number of CMU cheme alumni: Mike Bevan (Illinois), John Green (DuPont), Maria Santore (UMass), Eva Sevick-Muraca (Texas A&M), John Walz (Yale) and Rich Webber (E-Ink). Other participants from CMU were Lynn Walker and Ray Dagastine. Two of the participants at this conference (Gabor Somorjai & Eli Ruckenstein) are recipients of the National Medal of Science (America's "Nobel prize").

The topics for this year's conference included biomolecules at interfaces, self-assembly on surfaces, new insights from colloidal forces and charge effects in nonaqueous media. Out of 145 researchers who applied, 105 registered, including 20 from industry and 23 from outside the US. Twenty-two 50-minute talks were presented along with 57 posters. The vice-chair of the conference, Gabor Somorjai (Berkeley), chose 12 posters for brief oral overviews. These brief overviews are a new feature at this conference and were well received by the participants.

In addition to his role as a speaker, Lee White organized the wine and cheese receptions for each afternoon's poster session and each evening. These receptions were particularly effective in lubricating the conversations. Lee recruited a number of "volunteers" from the participants to help move ice and refreshments, including Dean Anderson and the conference chair.

**Erik Ydstie** has the heartfelt condolences from the department. Erik’s father passed away on August 27 in Norway at the age of 82. We expressing our deepest sympathy to Erik Ydstie and his family for their loss.

**Staff News**

**Congratulations** to **Matt Cline** who received the Kun Li Award for Excellence in Education at the 2002 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.
Congratulations to Elizabeth Schwertfuehrer who earned her Master's Degree in Library and Information Science from the University of Pittsburgh. Elizabeth worked on her degree part-time for three years.

Undergraduate News

2002 Chemical Engineering Alumni Scholarships.
Congratulations to the following recipients:
Steven Harris Back
Karoline O. Evans
Nathan A. Lazur
Timothy R. O'Dowd
Baris E. Polat

TOC Breakfast
The TOC Breakfast for seniors and potential employers is scheduled for September 19, 2002, at 8:00a.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 3102B, or e-mail at jacobson@andrew.cmu.edu.

Members of 2002 SAC – Student Advisory Council
Sophomores: Karoline Evans
Nicole Gartner
Dana Gary

Juniors: Kris Howard
Eric Boudreaux
Janice Hou

Seniors: Alex Perry
John Coleman
Ali Berliner

2002 Officers of AIChE Student Chapter
(American Institute of Chemical Engineers)
President: Earl Solis
Vice President: John Coleman
Treasurer: Diana Yoon
Industry Liaison: Ben Anderson
University Liaison: Brendan Mack
Social Chair: Matt Helgeson
Sophomore Representative: TBA
Faculty Advisor: Jim Schneider

Placement statistics for the 2002 Senior Class are as follows:
The average starting salary was $54,333. The high was $57,200 and the low $49,000. Seniors were hired by the following companies:

- AmeriCorps
- BOC Gases
- ExxonMobil (3)
- General Electric
- Johnson & Johnson
- L’Oreal
- Pharmacia
- UCB Pharma
- United States Navy (2)
- US Steel

**The class of 2002 went to the following graduate schools:**
- Carnegie Mellon (9)
- Imperial College
- University of Delaware (2)
- University of Pittsburgh

Congratulations to the following students who were on the CIT Dean’s List for Spring 2002:

**SENIORS**

- Brian Baker
- Anthony Balducci
- Anastasia Gribik
- David Gutowski
- Hanyong Lim
- Christopher Pierce
- Sara Royce
- Alexander Smith
- Earl Osman Solis
- Elizabeth Williams
- Rebecca Gerard
- Matthew Helgeson
- Kristopher Howard
- Brendan Mack
- Michelle O’Malley
- Parag Shah
- Mithun Kumar Shenoi
- Derek Underwood
- Adam Welander

**JUNIORS**

- Gregory Allen
- Benjamin Anderson
- Lisa Campus
- Eveline Chao
- Mary Chopard
- Daisy Digmanese
- Steven Back
- Karoline Evans
- Justin Ker
- Timothy O'Dowd
- Gene Pan
- Baris Polat

**SOPHOMORES**

- Steven Back
- Aaron Beaber
- David Chan
- Yan Xi Chan
- Yi Chen
- Matthew Dalka
- Michael Divens
- Karoline Evans
- Justin Gargas
- Nicole Gartner
- Dana Gary
- Pierre Guimard

**Welcome to our Sophomore Class!**
Amy Haag                    Baris Polat
Reinhard Hanselka           Raihan Rozlee
Justin Ker                  Robert Russell
Nathan Lazur                Edmund Saw
Roy Ludwick                 Michael Shebetich
Steve Marshall              Myung Shin
Jessica Mastalski           Ryan Spector
Daniel McNerny             Megan Tzeng
Timothy O'Dowd              Jonghyun Won
Kienuwa Osayawe             Kierra Wright
Kevin Paavola               Allen Yang
Gene Pan                    Daniel Yarrington
Hyeree Park                 Hyewon Youm
Reema Patel                 Heekyu Yun

**Exchange Program Participants**

Good luck to our students, Jarrett Feldman, Mark Goldman, Janice Hou and Adam Welander who will travel to Imperial College in London and Bri-Mathias Hodge who will travel to Aachen University in Germany.

**Welcome to our Exchange Students!**

**Aachen University, Germany**
Peter Michael Follmann
Sven Glatthaar
Christian Keysselitz

**Imperial College, London**
Yuan Chuan Lee
Zi En Ooi
Li Bin Sim
Jun Yong Teo

**ITESM – Monterrey Tec, Mexico**
Luis Fabián Vázquez

**Exchange Program Deadline**
The deadline for submitting applications to participate in the exchange program for the 2003 – 04 academic year is January 17, 2003. This is the Friday after winter break. Stop by Elizabeth’s office in DH 1101 to pick up an application packet. Information about the exchange program can be found on the chemical engineering undergraduate website at [http://www.cheme.cmu.edu/ugrad/](http://www.cheme.cmu.edu/ugrad/)
Exchange Program - A Study Abroad Perspective

The Imperial College Experience, by Jordan Green
My junior year to Europe has been one of the best years of my life. I am very grateful to the Department of Chemical Engineering at Carnegie Mellon University for providing me the opportunity to study abroad and to Imperial College in London, England for their hospitality and friendship. My life has been profoundly broadened. I see the world through more global eyes and am deeply appreciative of its diversity.

Living in Europe exposed me to a new environment. Traveling from country to country, I became more independent and able to adapt to new circumstances. Cultural diversity challenged me to think and work, both academically and socially, in new ways.

London is a remarkable city full of culture, history, and intellectual stimulation. It is a significant center of cosmopolitan life and a base to travel to other cities in the United Kingdom and Europe. During my breaks I took advantage of the magnificent art treasures in Italy and relaxed on the beaches in southern France.

By ranking and reputation, the top three universities in the United Kingdom are Oxford, Cambridge, and Imperial College. Imperial College is world-class with an international student and faculty body. The chemical engineering department is especially strong. The professors are engaging and the facilities allow for unique, hands-on project-orientated work. The curriculum is structured for integration between concurrent classes and my chemical engineering knowledge greatly coalesced during the year. I feel very privileged to have studied at Imperial.

Study Abroad has been a key part of my Carnegie Mellon collegiate experience. Imperial College has added to my chemical engineering growth and I have benefited from the exposure to a new balance between flexibility/structure and depth/breadth. I have been very pleased with all facets of this study abroad experience and enthusiastically recommend it.

PISCES—Practical Internship for senior Chemical Engineering Students

Welcome back to last year’s participants: Betty Huang – Bristol-Myers Squibb and James Tseng – AMD.
Good luck to Rick Koontz who will spend the year at Lubrizol Corp.

The Senior Banquet
The fifth annual senior banquet sponsored by AIChE and the department was held on May 3 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!

Graduation 2002 Awards

The Mark Dennis Karl Outstanding Teaching Assistant Award recipient was Carl Laird.
AIChE Professional Promise Award was presented to Eric D. Miller.

Ken Westerberg Award was presented to Alexander Meyer. 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 Stacey L. Carothers.

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

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 2002 are: Sarah Dence, Tom Hewitt, Sini Jacob, Heather Leifeste, and Eloissa Wells.

Graduate News

Career Development Workshop offered by Bayer
A career development workshop will be offered to graduate students and postdoctoral fellows on October 5, 2002, 9:00AM to 4:00PM, in the Singleton Room. The workshop will be conducted by Dr. Lawrence B. Friedman, Manager of University Relations at Bayer Corporation, Dr. Judith C. Giordan, Principal and Co-Founder of Aileron Partners, a strategic and human capital services provider, and John Danchisko is Director, Human Resources, at Bayer Corporation.

If you want to participate in this workshop, contact Janet Latini, jlatini@andrew.cmu.edu Preference will be given to last year students, and to those who sign up first.

Congratulations to Andreas Waechter for receiving the SIAM Student Paper Prize. This prize was awarded at the SIAM Annual Meeting for a paper on filter optimization methods for work performed for his PhD thesis. Andreas is currently at the TJ Watson Research Center at IBM. Andreas Waechter is a former PhD student of Larry Biegler.

Congratulations to John Walz who was recently appointed Chair of Chemical Engineering at Yale. John Walz is a former PhD student of Dennis Prieve and graduated from CMU in 1992.

Chem. E. Alumnus, Sebastian Catana will soon leave for Seattle to participate in the Young Artist Program at the Seattle Opera Company. Sebastian recently performed the title role in "Don Giovanni" with the Baltimore Opera Studio. Critics called his performance one of the strengths of the production as he "made Don Giovanni a persistently likable rogue." Sebastian will return to Pittsburgh for a December 5th recital at Carnegie Music Hall. Details will be announced later. Sebastian Catana is a former MS student of Dean Anderson.

Welcome to our new graduate students!

**Ph.D. Students**
- Murni Ahmad, University Kebangsaan Malaysia
- Juan Arrieta Camacho, Universidad Iberoamericana
- Bhawna Bhatia, Indian Institute of Tech-Delhi
- Calvin Chan, Cooper Union
- HaiBin Chen, Beijing University of Chemical Tech.
- Rong Fu, Northwest University
- Shane Grosser, University of Rochester
- Jason Hamm, NJIT/Rutgers
- Kendell Jillson, University of Massachusetts-Amherst
- Anjanette Koritnik, University of Notre Dame
- Abigail Laurent, University of Virginia
- Kevin Sirk, Illinois Institute of Tech
- Christy White, University of Arkansas

**M.S. Students**
- Maria Garcia, Instituto Technologico de Estudios Superiores de M
- Aaron Greiner, Lehigh University
- Xiang He, Xi'an Jiaotong Univ
- Seth Knaebel, Carnegie Mellon University
- Madhavi Kulkarni, Anuradha Engineering College
- Chang Hoon Lee, Sogang University
- Masahiro Nakata, The University of Tokyo

**M.Ch.E Students**
- Sarah Dence, Carnegie Mellon University
- Charles Grimm, Carnegie Mellon University, B.S. 2003
- Angel Morales, Carnegie Mellon University
- Prabhath Nanisetty, Carnegie Mellon University
- Humberto Nava, La Universidad del Zuia/Universidad Rafael Urdanet
- Rohit Rao, Carnegie Mellon University
- Bhavesh Shah, University of Mumbai
- Katie Snell, Carnegie Mellon University
- Chindarat Winyarat, Northeastern University
Congratulations to our second year Ph.D. students who passed their qualifier exams.

Congratulations to Jeffrey Fagan and Satoru Izumisawa who passed their Ph.D. qualifying exam.

Jeff passed his exam on May 30th and his advisors are Paul Sides and Dennis Prieve. The title is, “Investigating the Mechanisms of and Applications for Colloidal Particle Motion Near an Electrode Under the Application of a Normally Directed AC Electric Field.”

Satoru passed his exam on May 17th and his advisor is Myung Jhon. The title is A Study of Confined Nanoscale Polymeric Fluid Films.

CHEGSA News
The 2002 CHEGSA Symposium will take place on October 17-18, 2002. The invited speaker will be Professor Mario Molina from Massachusetts Institute of Technology. Professor Molina received the 1995 Nobel Prize in Chemistry for discovering the depletion of the ozone layer. Professor Mario Molina will speak on Thursday, October 17, 11:00AM, Singleton Room. For more information, please see:
http://web.mit.edu/chemistry/www/faculty/molina.html
http://www-eaps.mit.edu/faculty/molina.htm

2002 AIChe Convention
The department will host the Annual Alumni Reception at the Indianapolis, Indiana AIChE Meeting on Monday, November 4, 2002.

Visiting Scholars – Welcome!
Mr. Anibal Blanco from Planta Piloto de Ingenieria Quimica – Plapiqui in Argentina is working with Dr. Biegler’s research group.

Dr. Bao Chuong from Indiana University – Bloomington is performing research with Dr. Donahue’s in the Air Quality Group.

Ms. Vanesa de la Torre from the Universidad Nacional del Sur in Argentina is working with Dr. Biegler on dynamic optimization and process control.

Dr. Tao Li from the University of South Carolina is performing research with Dr. Sholl on the use of computational chemistry to study chemical binding of small molecules on structured metal surfaces.

Dr. Gabriela Mannarino from the Universidad Tecnologica Nacional in Argentina is working with Dr. Westerberg on a research project concerning computer-based supports for distributed, multidisciplinary collaborative work processes.
I grew up in a small Greek island (may be 5 kilometers long) called Poros (pop. 3,000). Swimming, fishing, sailing, and rowing were the most important skills for a child in the island. Becoming a fisherman would be my plan B, if this university professor job did not work out (note: fishing in the Mediterranean is easy, fish there are quite stupid). My father got his degree in Economics while I was in elementary school. Looking at somebody study every night after working full time was probably one of the strongest influences of my childhood. Both of my parents are civil servants (my mother is a nurse) and my sister, despite my advice, studied Physics.

In Greece one needs to decide what career path to follow quite early. I admit that this was not an easy choice. I liked literature and history and my writing (in Greek) was not that bad. If the Indiana Jones movies had come out a few years earlier, I might have become an archeologist. I did not know anything about Chemical Engineering, until I read a Greek book about engineering careers. It described Chemical Engineering as the most flexible engineering discipline that deals with all kinds of problems from making new chemicals, pharmaceuticals, materials, to helping the environment, etc. I was impressed. The fact that chemical engineers could also work in chocolate factories sealed the deal for me.

The most important class that I took as an undergraduate was probably Physics I, because this is where I met Angeliki, a civil engineer, who six years later became my wife. My first internship after my sophomore year persuaded me that working in industry was not the right choice for me (I did not like doing the same things every day, I hated waking up at 5:30 am, and I did not like having a boss) so I started thinking about academia and graduate schools. A few years later I found myself in graduate school in Caltech. Everything was like an excellent dream until I discovered that in US universities you have to solve homework problems every week.

I had been disappointed by the fact that there is so little environmental research done by chemical engineers, even if we know more about the fundamentals (thermodynamics, fluid mechanics, mass transfer, kinetics, reactors) than any other engineer or scientist. Starting with my Ph.D. and for the last fifteen years I have been working on air quality problems. It is a simple idea: the atmosphere is our reactor and as engineers we try to figure out how not to produce something in the system (minimize the pollutant concentrations at the minimum cost to society). Our group works on smog and other big city problems, but also on acid rain and global change.

After graduate school I spent two years in the Greek army (it is obligatory for all males). I do hate guns, so this experience left a lot to be desired. On the positive side I was trained to be a drill-sergeant and some of these skills are quite useful in academia. My luck changed dramatically after my tour of duty as I became a professor in Carnegie Mellon. I admit that this job is too good to be true. Instead of trying to motivate students to work harder I have had to tell a number of them to slow down.

I spend most of my free time these days with my four-year old son, Nikos. When possible I watch (or even listen to) sports. Soccer is my big love, but I like almost every sport excluding golf and car racing. I try to run (quite slowly) a couple of times per week and I usually find some time late at night to play a computer game or two (strategy and adventure games are my favorites). When I get back to Greece for vacation I spent a good part of the day in the water swimming (quite slowly).