Faculty Distinctions

Ying Named to TR100 List of Top Young Innovators
Professor Jackie Ying, an internationally-recognized leader in the field of nanomaterials, was recently named by Technology Review to their TR100 list of the top 100 innovators for 1999. At the awards ceremony held on November 4th, Professor Ying was praised for her precisely-tailored nanomaterials and their potential for safer pharmaceuticals, more efficient processes for making industrial chemicals, and better catalysis to cut automobile air pollution. In the words of Tech Review, "Nanotechnology will be one of the key economic areas of the next century. And in that field, Jackie Ying will be a leader." Congratulations to Professor Ying on this prestigious award!

For more about Prof. Ying's work, visit http://web.mit.edu/nano/www/ying.html

Langer Receives Delaware ACS Carothers Award

Congratulations to ChemE Professor Bob Langer, who was recently selected to receive the 2000 Carothers Award. This award was established in 1976 by the Delaware Section of the American Chemical Society in memory of Wallace H. Carothers, one of the founders of modern polymer chemistry. The purpose of the award is to honor scientific innovators who have made outstanding contributions and advances in industrial applications of chemistry.

Bob joins a distinguished list of former winners including Paul Flory, Frank Bovey, Herman Mark, Edwin Land, and last year's winner Barry Sharpless.

For more about Prof. Langer's research, visit http://web.mit.edu/cheme/www/People/Faculty/Langer_Robert.html

Lauffenburger to Deliver Cal Tech Lacey Lecture

ChemE was honored by the selection of Professor Doug Lauffenburger to present the 33rd Annual W. N. Lacey Lectures in Chemical Engineering at Cal Tech, from January 9-15, 2000. His talks there will be entitled "Some Efforts to Understand and Control Receptor Mediated Cell Signaling and Responses from an Engineering Perspective" and "Molecular Cell Biology as Foundation for the new Bioengineering."

Kudos to Professor Lauffenburger on this honor!

For more about the Lacey Lectures at Cal Tech, visit http://www.cheme.caltech.edu/seminars/lauffabs1.html

For more about Professor Lauffenburger's research, visit http://web.mit.edu/cheme/www/People/Faculty/Lauffenburger_Douglas.html
Grad Student Distinctions

Congratulations to ChemE Post-doc, Dr. John Tolsma, who was recently awarded the AIChE Separations Division's "Koch Glitsch" Award for Distillation for his thesis work in the laboratory of Professor Paul Barton. Dr. Tolsma's thesis, "Analysis of Heteroazeotropic Systems", covered his development of algorithms for the prediction of azeotropes and heteroazeotropes, and of methods for analyzing the changes in phase equilibrium structure under parameter variation. Tolsma defended in April 1999, and is now working in Professor Barton's lab in the area of open modeling and simulation; specifically, the group is developing DAEPACK, a collection of symbolic and numeric components for efficient and robust simulation of legacy and heterogeneous models.

For more about DAEPACK, visit http://yoric.mit.edu/daepack/daepack.html (please note that the page is currently under construction)

Alumni Distinctions

Goldwasser, Mitragotri and Prausnitz Named to TR100 List

Congratulations to three recent ChemE grads, who were named to the TR100 list of Young Innovators for 1999: Isy Goldwasser, Samir Mitragotri, and Mark Prausnitz.

Isy Goldwasser, 29, was honored for his pioneering use of combinatorial chemistry -- a practice which involves the simultaneous synthesis of a large array of compounds, followed by an innovative screening procedure to pickout the 'winners'. Symyx, a 1994 startup company that he cofounded, is the first company specifically devoted to using this process to replace trial-and-error methods in materials discovery. Goldwasser was promoted from Vice President to President and COO, last year.

Samir Mitragotri, 28, was honored for his invention of a new method for measuring glucose levels, "sonophoresis", which promises to yield major benefits for diabetics, among others, who must endure needle jabs and/or pin pricks several times a day in order to monitor and manage blood sugar and insulin levels. Sonophoresis is a technique which can be used to make skin super-permeable through the use of low-frequency ultrasound in combination with a vacuum which is used to suck out interstitial fluid. This
fluid can be used to measure glucose levels, and the sonophoresis process may well also yield an alternative means for insulin delivery across the skin. Mitragotri envisions a closed-loop, wristwatch-sized device that automatically monitors and adjusts glucose levels, thereby making the lives of diabetics not only pain-free but also, carefree.

Mark Prausnitz, 33, is a pioneer in the field of drug delivery, but takes the innovative approach of "choosing to manipulate the body, and have it let the medicine in" rather than focusing on means of expediting drug transit time through the bloodstream to a specific target. As a grad student, Prausnitz showed for the first time how short electric pulses could move large quantities of drugs across the skin, a phenomenon known as "electroporation". That approach could help in treating tumors and autoimmune diseases. Since joining the Georgia Institute of Technology's chemical engineering department, Prausnitz and colleague, Mark Allen invented a 10-millimeter-square array of silicon needles (each 150 microns long) that make microscopic holes in the skin and can painlessly pump drugs into the body. The device could offer the convenience of skin patches, but administer a much wider array of drugs. A startup company, Redeon of Cambridge, is working to commercialize the invention.

The Department is proud to count these outstanding pioneers among our graduates and wishes them each a hearty congratulations!

To learn more about the work of these and other outstanding researchers recently honored by the TR100 listing of top innovators, visit http://www.techreview.com/tr100/

Return to the top.

Department News

Telethon Callers Bring in ChemE Dollars!

by Greg Sands

One of ChemE's pivotal events is the annual Fall Fund Raising Telethon. This year's Telethon, held on October 26th, was one of the most successful yet! The 22 callers recruited by grad student Geof Moeser contacted 334 alumni/ae, securing 205 gifts (a 61% pledge rate) and a total of $22,410 in pledges -- over $1,000 per caller!

ChemE Student Administrator Janet Fischer commended the efforts and spirited commitment of all the callers, praising their willingness to trade a few hours of potential study time for an opportunity to help strengthen the Department for the future.
Fund raising is one of the most critical aspects of maintaining and building an exceptional engineering education program. Department Head Bob Armstrong, in a personal thank you to all the callers, outlined the importance of the Telethon both as a fund raising activity, and as an opportunity for the department to refresh its contacts with alumni/ae. Armstrong commented, "The funds raised in this way are very important in underwriting a core mission of our department -- educating the best chemical engineering graduate students in the world. The telethon goes beyond the funds that are raised, however, in continuing and renewing contacts between the department and our alumni/ae. It is in addition, a wonderful opportunity for callers to 'meet' some of our many outstanding graduates."

In honor of Telethon callers across the Institute, the MIT Alumni Association celebrated the success of the phonathon with the annual Thank You Reception, which was held this year at the Boston Museum of Science. At the Reception, awards were presented to students throughout MIT for their success, including ChemE's own Seif Fateen, a grad student who was named the top caller -- both this year and in 1996! This event featured a catered reception, followed by a screening of the Omni Max film, "Egypt."

For their important role in fund raising and for working as ambassadors for the department, the department thanks all of the callers doing a terrific job.

This year's callers were: Kim Bryan, Mike Buchanan, Kevin Dorfman, Seif Fateen, Murray Height, Jeb Keiper, Cynthia Lo, John Lock, La Ruth McAfee, Geoff Moeser, Pemakorn Pitukmanoram, Greg Pollock, Farheen Qadir, Balaji Rao, April Ross, Anand Sivaraman, Patty Sullivan, Jeff Swers, James Taylor, Matt Wong, Paul Yelvington, and Andrea Zanzotto.

Another warm thank you and congratulations to all of this year's Department of Chemical Engineering Telethon Callers!

### ChemE Bids Untimely Farewell to Lecturer and PS Supporter, Bill Rousseau '36

*by Bob Armstrong, ChemE Department Head*

The Chemical Engineering Department mourns the recent loss of Senior Lecturer, Bill Rousseau MSCEP '36, a graduate and longtime supporter of the Practice School, who died recently. Following his retirement as Vice President with Badger, Bill joined MIT to work with the Practice School. Long considered a "Friend of the Practice School," Bill visited each station during the students' stay there. Students looked forward to seeing him and hearing him tell about "the good old days", when he was a student of the PS. Bill kept up his interest in the PS by writing the annual newsletter for the Class of '36, until a few years ago when his health did not allow him to continue. He will also be remembered for his tireless efforts in fundraising on behalf of the Practice School and in establishing the *Class of 1936 Practice School Fellowship.*
In lieu of flowers, the family has requested that donations be made in Bill's name to the Margaret and William Rousseau Scholarship Fund at MIT.

**Lauffenburger Group Welcomes Shvartsman**

ChemE welcomes a new Post-doc in Professor Lauffenburger's group, Dr. Stanislav Shvartsman. Dr. Shvartsman joined us in November after the recent completion of his doctoral dissertation, entitled "Dynamics and Control of Reaction-Diffusion Systems" under the supervision of Professor Ioannis Kevrekidis in the Department of Chemical Engineering at Princeton University.

Please drop by Dr. Shvartsman's office in 56-379 and welcome him to the department!
Phone: (617) 258-0208

**Bieler, Hoffmann Join McRae Research Group**

Mr. Patric S. Bieler (Diploma Student of Professor Hungerbuehler at ETH Zurich) has recently joined Professor Gregory McRae's lab group as a Visiting Doctoral Exchange Student until March 31, 2000. During his stay, he will be working in the area of environmentally-conscious process-design. This is Patric's first visit to MIT.

Another recent arrival to the McRae group is Mr. Volker Hoffmann (Ph.D. student of Professor Hungerbuehler, ETH Zurich), who has also joined the group as a Visiting Doctoral Exchange student through August 31, 2000. While here at MIT, Volker will continue his research on the design of chemical processes with multiple objective. This is Volker's second MIT visit.

Please extend a warm welcome to both Patric and Volker!

Patric S. Biehler  
Office: 66-060  
EMail: pbieler@mit.edu

Volker Hoffmann  
Office: 66-060  
EMail: volker@mit.edu

Return to the top.
GSC/ChemE Holiday Party Coming This Friday!

Just a reminder that the annual Chemical Engineering Holiday Party will be held this Friday Dec.10th at beginning at 5 PM! Are you new to MIT ChemE? Make new friends and discover the true secret to Chemical Engineering success --it's taught only one night a year! Don't miss the skits! (see below) The ever popular Baking Contest and Secret Santa events will take place throughout the evening, and the jolly one himself just might drop in to hand out a surprise or two!

### Schedule of Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>5:00</td>
<td>Skits in E15-070</td>
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</table>
| 6:30 | Dinner by *Rhythm and Spice* in Building 66  
(Pizza will also be available) |
|      | Kiddie Korner in the Gilliand Auditorium (66-110) |
|      | Snacks in the Walker Lounge (66-201) |
| 8:00 | Caroling with the *ChemE Band* |

### Calendar of Events - December 1999

#### November

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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| 8th  | Faculty Meeting  
4:15 PM to 6:00 PM |
| 22nd | Faculty Meeting  
4:15 PM to 6:00 PM |

#### December

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</table>
| 3rd  | Hoyt C. Hottel Lecture  
3:00 PM |
| 6th  | Faculty Meeting  
4:15 PM to 6:00 PM |
For questions about these and other Chemical Engineering Department Events, please contact:

Arline Benford  
Phone: 258-7031  
EMail: arline@mit.edu

For questions about faculty, staff and/or student meetings please contact:

Emmi Snyder  
Phone: 253-4533  
EMail: emmi@mit.edu

MIT Entrepreneurial News

New MIT Entrepreneurship Web Portal Launched

E-MIT is a newly-established MIT student-run entrepreneurship portal (http://e-MIT.mit.edu) that highlights in one place a variety of entrepreneurial events, programs, resources and ventures available to the MIT community and friends of the Institute. We have launched our beta site and will launch to the Institute on November 15th. E-MIT offers students an opportunity to join and manage an e-Business, interact with entrepreneurs and venture capitalists, enhance the entrepreneurial community at MIT, and work with a terrific group of people. E-MIT organizers are building a leadership and implementation team and would welcome your involvement. The time commitment can range from 2 hours per week to a leadership role with more substantial involvement.

To get involved, please EMail the following people based on your interests:

Content: Kathryn Cosgrove (cosgrove@mit.edu)  
PR: Jenn Wu (wuj@mit.edu) or Ann Cho (anncho@mit.edu)  
IT: Rami Habal (rhabal@mit.edu) or Lekan Akinyanmi (lekan@mit.edu)  
Marketing: Norma Castro (ncastro@mit.edu) or Panida Chinsupakul (panida@mit.edu)  
Finance: David Lam (davidlam@mit.edu)  
Sponsors: Julian Ting (jct@mit.edu)

Return to the top.
MIT Library News

Online Services Update!

IDEAL® Journal Library

The MIT Libraries subscribe to IDEAL®, which is an online electronic library containing 174 Academic Press journals full-text contents from 1996-1999+. In addition, selected W.B. Saunders, Ltd. and Churchill Livingstone titles are available. Abstracts and tables of contents are presented in HTML and full-text articles are delivered in Adobe Acrobat® format.

You can access IDEAL® both from the libraries database web page at http://libraries.mit.edu/lists/db-web.html or ejournal list at http://libraries.mit.edu/lists/ejrnls-short.html -- go to IDEAL® (currently the individual journals are not listed on the ejournal list, but will be in the future).

Annual Reviews Online

The following Annual Reviews are now available online at http://libraries.mit.edu/lists/ejrnls-short.html

Annual Review of Biochemistry
Annual Review of Biomedical Engineering
Annual Review of Biophysics and Biomolecular Structure
Annual Review of Cell and Developmental Biology
Annual Review of Fluid Mechanics
Annual Review of Genetics
Annual Review of Immunology
Annual Review of Materials Science
Annual Review of Microbiology
Annual Review of Neuroscience
Annual Review of Nuclear and Particle Science
Annual Review of Pharmacology and Toxicology
Annual Review of Physical Chemistry
Annual Review of Physiology
Annual Review of Phytopathology
Annual Review of Plant Physiology and Plant Molecular Biology

For further information please contact the Chemistry Librarian, Erja Kajosalo at:

Office: 14S-134
Pre-Doctoral Opportunities

**Systems Engineer (R&D)**

Maintenance Station Process Engineer (R&D)

Xerox Corporation

Rochester, New York

Systems Engineer

Qualifications: B.S. or M.S. in Physics, Mechanical Engineering or Systems Engineering is required. Three to five years experience in: key characteristic identification and mapping, FAST diagrams, FMEA, tolerance allocation, and cross subsystem problem management, is must. Empirical experience. Fundamental knowledge of computer modelling and analysis is required. Must have strong understanding/knowledge of subsystems. Ink-jet experience is helpful. Cross-functional teamwork skills are mandatory. Must have good problem solving skills and statistical knowledge. Must have great communication and presentation skills.


See below for the application procedures.

**Maintenance Station Process Engineer**

Qualifications: B.S. in Mechanical Engineering, Chemical Engineering or Physics is required. Five to ten years of experience in Process Engineering. Experience with process development, design and latitude testing methods. Must have presentation skills and strong communication skills.

Responsibilities: Develop and validate critical parameters and specifications for a maintenance station design. Work with hardware design team and marketing contacts to set critical parameters for
maintenance station subsystem. Develop test methods and fixturing to perform CP validation. Direct lab technicians to perform validation testing. Develop firmware algorithms to optimize maintenance station performance. Validate firmware operation as it relates to maintenance station performance.

For both of the above positions at Xerox (R&D):

Application Procedure: Please contact:
Jean Culp
EMail: jculp@channels.usa.xerox.com

For more about Xerox, visit http://www.xerox.com

**Molecular Biologists/Data Analysts**
New Haven, Connecticut

Qualifications: B.S., M.S. or Ph.D. Knowledge of basic genetics. Familiarity with molecular biology databases, MSExcel and Word.

Responsibilities: Computer data analysis (NO bench work), analysis of genetic genotyping data, evaluation of genetic variations.

Application Procedure: Please contact:

Carole Butler, Scientific Recruitment Specialist
Techfind, Inc.
P.O. Box 626
Natick, MA 01760
Phone: (508) 647-0111
Fax: (508) 647-0110
EMail: cb@techfind.com

For more about Techfind, visit http://www.techfind.com

**Product Design Supervisor (Microplates)**
Corning
Science Products Division
Acton, Massachusetts

Qualifications: B.S. in Engineering, 5 years injection molded product design experience. Critical competencies include: strategic thinking, marketing/customer orientation, technological curiosity, results orientation, people development.
Responsibilities: Manage the invention and development of new products for the Microplate business. Be responsible for managing the work flow to the engineers and technical staff, provide creative leadership for the products and staff as needed, and work with the marketing and sales groups to define, invent, prioritize and implement appropriate projects for the division.

Application Procedure: Please contact:

Rick Moore or Debbie Mays
Corning Life Sciences
45 Nagog Park
Acton, MA 01720-3413
Phone: (978) 635-2200
EMail: Schrockkm@corning.com

For more about Corning, visit http://www.corning.com/

Project/Sr. Engineer (Optimization Specialist)
The Coca-Cola Company
Atlanta, Georgia

Qualifications: Chemical Engineering (B.S., M.S. or Ph.D. candidate) Food Processing Engineering (B. S. M.S. or Ph.D. candidate). 5-10 years of industrial experience with success in the area of technology development. Bottle/can experience is a plus. Must have a proven track record of technical innovation with a concentration in optimization.

Responsibilities: Develop new and innovative processes in the manufacturing and distribution of company products across the value chain from concentrates through finished beverages. Assist engineers in the use and implementation of optimization software as a design tool for the quantification of costs/benefits in the development of innovative manufacturing and distribution technologies.

Application Procedure: For consideration, EMail cover letter and resume to:

Laura Gross, Contract Technical Recruiter
The Coca-Cola Company
Phone: (770) 650-7359
EMail: lauragross@mindspring.com

For more about Coca-Cola, visit http://www.coca-cola.com

Two Positions
CPS, Inc. (Chemical Engineer Recruiter)
1. **Database/Production Engineer (#1-KH)**

   Qualifications: 0-2 years experience. Excellent communication skills, permanent US resident or citizen, immediate availability.

   Responsibilities: Will develop a database for 18-24 months and ensure engineering documents are entered, then will move to a production engineering assignment.

   Location: Iowa

   Company Info: Batch specialty chemical plant, Medium-sized company (300 people).

   See below for contact info.

2. **In-Plant Engineer (#2-KH)**

   Qualifications: 0-2 years experience. Excellent communication skills, immediate availability, Permanent resident or US Citizen must be able to relocate yourself, must reside within 3-4 hour radius of Chicago

   Responsibilities: In-plant engineer

   Location: Western Suburb of Chicago

   Company Info: International specialty chemical and coatings company. 100 people at plant.

For both positions:

Application Procedure: Please refer to job code (#) and contact:

Kathleen Harrington
CPS, Inc.
One Westbrook Center, Suite 600
Westchester, IL 60154
Phone: (708) 531-8370
Fax: (708) 531-8373
EMail: kharrin416@aol.com

**Cell Culture Supervisor**
Leading Biotech Firm
Mid-Atlantic Region (US)
Qualifications: The successful candidate will have a M.S. in Biochemistry, Biology or a related discipline and 4+ years industry experience doing large-scale cell culture in a GMP manufacturing facility.

Responsibilities: We are seeking an individual to oversee large-scale (500L) cell culture operations in cGMP environment. The successful individual will be responsible for overseeing cell culture production and scale-up from t-flasks and shaker flasks to bioreactors. In addition, will provide leadership and training to junior team members who will operate and maintain bioreactors (up to 600 L) and prepare media and solutions under cGMP conditions. You will prepare and execute SOP's and validation protocols. Examine environmental and nutritional parameters in cell culture to optimize processes and optimize existing processes to increase productivity and efficiency. Although this is a supervisory position the successful candidate will maintain a hands-on role within the group.

Application Procedure: Please contact:

Larry Chiaravallo  
Diedre Moire Corp, Inc.  
Fax: (609) 584-9575  
EMail: 915603@candseek.com

**Development Engineer**  
Bioprocess Division  
Millipore Corporation  
Bedford, Massachusetts

Qualifications: B.S. in Chemical Engineering. Strong analytical skills, and strong knowledge of chemistry and the preparation of buffer/chemical solutions. Strong knowledge of fluid dynamics and pumping systems. Must be comfortable working in a hands-on lab environment. Knowledge of filtration applications is a plus.

Responsibilities: The chosen candidate will be part of the development team for new tangential-flow filtration devices. The individual will be responsible for organizing and performing product testing to evaluate products in development and to validate the fully developed product. Testing will include the simulation of protein processing and biotech customer applications. Position may start immediately, or for a December graduate, in January 2000.

About Millipore: Millipore is a multi-national, high technology corporation that develops, manufactures and sells a broad range of purification products to the biopharmaceutical microelectronics and analytical laboratory markets.

Application Procedure: Qualified candidates should send resumes to:
Millipore
Job Code CR/100856
P.O. Box 482
Waltham, MA 02454-0482
Fax: (781) 663-2435
EMail: millipore@hiresystems.com

For more about Millipore's Bioprocess Division, visit http://www.millipore.com:80/biopharm/site.nsf/docs/47UJXX

Return to the top.

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Post-Doctoral Opportunities

Kinetics and Mechanisms of Catalytic Systems
Sandia National Laboratories
Livermore, California

Qualifications: The applicant should have a strong background in modeling of heterogeneous reaction kinetics, surface chemistry and/or catalytic mechanisms and kinetics. The successful candidate will have a Ph.D. in either chemical engineering or chemistry. U.S. citizenship required.

Responsibilities: Conduct research directed at understanding the kinetics and mechanisms of catalytic systems, including noble-metal sensors and oxidative dehydrogenation reactors. The goal of the work is to develop models of the detailed gas-phase and surface chemistry that determines sensor performance, product distributions, and conversion efficiencies.

Application Procedure: Send a resume, list of publications, references, summary of previous research, and copies of transcripts to:

Dr. Mark D. Allendorf
Mail Stop 9052
Sandia National Laboratories
P.O. Box 969
Livermore, CA 94551-0969
Phone: (925) 294-2895
Fax: (925) 294-1004
EMail: mdallen@sandia.gov
For more about Dr. Allendorf's research at Sandia Labs, visit http://www.sandia.gov

**Liquid-Liquid Contact Processes**  
Department of Chemical and Process Engineering  
University of Canterbury  
Christchurch  
NEW ZEALAND

Qualifications: (two-year appointment) A Ph.D. degree is essential and recent experience of quantitative laboratory based experimental research in Chemical Engineering, Chemistry or a related discipline would be necessary. A knowledge and understanding of numerical analysis and its application to mathematical modelling would also be essential. The ability to use a wide range of scientific instruments, such as image analysis systems, viscometers, high-speed video equipment chromatographs, etc., would also be highly desirable.

The Project: The project is concerned with intensive liquid-liquid contacting, focusing on two distinct novel liquid systems (i) neoteric ionic liquid solvents, (ii) active enzyme solutions in contact with oil substrates. The main engineering focus here is upon electrostatic spraying as a technique for intensive liquid-liquid contact in each system but there would also be significant work on physical characterization of these systems with particular emphasis on liquid-liquid equilibria.

Application Deadline: November 30, 1999 (It's worth a try anyhow)

Application Procedure: Please contact:

Profesor Laurence .R. Weatherley  
EMail: l.weatherley@cape.canterbury.ac.nz

or

Professor K.N. Marsh  
EMail: k.marsh@cape.canterbury.ac.nz

Contact Information for Both Professors Above:

Department of Chemical and Process Engineering  
University of Canterbury  
Private Bag 4800  
Christchurch  
NEW ZEALAND  
Phone: (001) 64-3364-2139
Biosynthesis

Department of Chemical Engineering
Kansas State University
Manhattan, Kansas

Qualifications: Ph.D. in Chemical Engineering, Biochemistry or related field; expertise in expression, purification, and modification of recombinant proteins and/or polymer network synthesis and characterization; manuscript preparation ability. Flexible start and end dates.

Responsibilities: Work will involve biosynthesis and modification of designed analogs of structural proteins like elastin for use in applications like tissue engineering.

Application Procedure: Send a CV, statement of career and research interests, and names of three references to:

Prof. Stevin Gehrke
Department of Chemical Engineering
Kansas State University
Manhattan, KS 66506
Phone: (785) 532-5584
Fax: (785) 532-7372
EMail: sgehrke@ksu.edu

For more about Prof. Gehrke and Biomaterials at KSU, visit http://www.engg.ksu.edu/CHEDEPT/gehrke.htm#fields

Industrial Opportunities

Fixed-Income Research
Fannie Portfolio Analytics
Washington, DC

Qualifications: Requires a Ph.D. (or equivalent) in Finance, Economics, or any of the Mathematical or
Engineering Sciences with programming experience and knowledge of object-oriented design and analysis. Prior experience in, or an intense desire to learn, the financial theory of asset pricing and fixed income valuation is also essential.

About Fannie Mae Portfolio Analytics: Fannie Mae manages a $550 billion mortgage portfolio to meet challenging risk and return objectives. The Portfolio Analytics group at Fannie Mae provides analytic support for these objectives by analyzing mortgage prepayment and default behavior, and developing state-of-the-art financial models for valuing fixed-income instruments.

Application Procedure: Submit your resume and salary requirement to:

Catherine Jones
Portfolio Analytics
Fannie Mae
4000 Wisconsin Ave, NW
Washington, DC 20016

For more about Fannie Mae, visit http://www.fanniemae.com/careers/

Academic Opportunities

Tenure-Track Faculty (2+)
Department of Chemical Engineering
University of Iowa
Ames, Iowa

Qualifications: Entry-level or experienced candidates are encouraged to apply. All candidates must have an earned doctorate in chemical engineering or a closely-related discipline. Senior candidates must show outstanding achievement in teaching and research and entry-level candidates must show exceptional potential for teaching and research.

About the department: The Department of Chemical Engineering has seventeen fulltime faculty members, about 50 graduate students, and about 450 undergraduates. Degrees are offered at all three levels. The department expanded into new research facilities in 1994, and has strong research programs in bioengineering, biotechnology, chemical reaction engineering, materials science, and computational fluid dynamics. The department participates in strong and growing university research programs in engineering and the chemical and biological sciences, including a major initiative in the plant sciences.
Major on-campus funding and research facilities are provided by the Institute for Physical Research and Technology, including the Ames Laboratory of the U.S. Department of Energy, and by the University Biotechnology Council.

Application Deadline: Review of applications will start January 15, 2000 and will continue until the positions are filled.

Application Procedure: Applications with résumés including names, addresses, and telephone numbers of three references or nominations of potential candidates should be submitted to:

Prof. R. C. Seagrave  
Department of Chemical Engineering  
2162 Sweeney Hall, Iowa State University  
Ames, IA 50011-2230  
Phone: (515) 294-0518  
Fax: (515) 294-2689  
EMail: seagrave@iastate.edu

For more about ChemE at Iowa State, visit http://www.public.iastate.edu/~ch_e/

Assistant/Associate Professor (Bioseparation Engineering)  
Biosystems and Agricultural Engineering Department  
University of Kentucky  
Lexington, Kentucky

Qualifications: Success in this position will require a strong working knowledge of engineering fundamentals, unit operations, expertise in process development and scale-up, and some protein chemistry knowledge. Applicants should have familiarity with fermentation, isolation, purification processes and equipment, including cell disruption, centrifugation, precipitation and extraction, filtration, ultrafiltration, chromatography, and lyophilization. In addition to collaboration with faculty in Biosystems & Agricultural Engineering, opportunities exist for collaborative work with faculty in the Agricultural Biotechnology group in the College of Agriculture, the Center of Membrane Sciences, and other faculty in the College of Engineering.

Responsibilities: The successful candidate will be expected to develop a strong graduate research program, including directing graduate students at the M.S. and Ph.D. level, and serving on interdisciplinary graduate committees. Teaching responsibilities include undergraduate and graduate engineering courses in topics such as Process Engineering, Biochemical Engineering, Bioseparations, or Food Engineering.

Application Procedure: Please contact:
Tenure-Track Faculty (1)
Department of Chemical Engineering
University of Washington
Seattle, Washington

Qualifications: Applications from all areas of chemical engineering and related fields will be considered. Candidates must demonstrate outstanding potential for high impact research as judged, in part, by a record of publications in their chosen field. Doctoral degree required. Candidates in the final stages of a doctoral degree program may be appointed on an acting basis.

Responsibilities: Candidates will be expected to provide innovative and quality teaching that integrates research with instruction at both the undergraduate and graduate levels.

Preferred Research/Teaching Foci: Research strengths include materials, biotechnology, process control, computational methods, colloids, and interfacial phenomena.

Application Deadline: Review of the applications will begin on December 10, 1999, but the position will remain open until it is filled.

Application Procedure: Applicants should submit a detailed CV, a list of publications, a statement of research and teaching interests and goals, and the name, address and phone number of at least three references to:

Search Committee Chair
Department of Chemical Engineering
University of Washington
Box 351750
Seattle, WA 98195-1750
Phone: (206) 543-2253
Fax: (206) 543-2250
EMail: stuve@u.washington.edu
Assistant Professor
Department of Chemistry
Louisiana State University
Baton Rouge, Louisiana

Qualifications: Ph.D. or equivalent degree in Chemistry or related field.

Preferred Research/Teaching Foci: Preference will be given to candidates with backgrounds in inorganic or physical chemistry. Responsibilities: Tenure-track position in materials, environmental or biological chemistry with teaching responsibilities at undergraduate and graduate levels and research.

Application Deadline: November 8, 1999 or until a candidate is selected.

Application Procedure: Please submit a letter of application and resume to:

Faculty Search Committee
ATT: Dr. Randall W. Hall
Louisiana State University
Department of Chemistry
232 Choppin Hall
Ref. # 018004
Baton Rouge, LA 70803
Phone: (225) 388-3472
Fax: (225) 388-3458
EMail: rhall@lsu.edu

For more about Chemistry at LSU, visit http://www.chem.lsu.edu

Assistant Professor (Polymer Science/Engineering)
Institute of Materials Science
University of Connecticut
Storrs, Connecticut

Qualifications: The successful candidate will have a doctorate degree in a related area and teach graduate courses in Polymer Science/Engineering. Applications from more senior candidates will be considered.

Responsibilities: The successful candidate will have an appointment in a classical department such as
Chemical Engineering, Chemistry or Physics and teach undergraduate/graduate courses there. In addition to teaching, the successful candidate will be expected to quickly develop funding and attract graduate students, leading to development of a nationally recognized research program.

Preferred Research/Teaching Foci: Research areas of special interest to the Program include biomaterials, surface/interphase studies, polymer synthesis, and structure/property relationships.

Application Deadline: We anticipate an appointment in mid-2000.

Application Procedure: To apply, submit CV, list of references and research plan to:

Polymer Search Committee
Institute of Materials Science
University of Connecticut
79 North Eagleville Road, U-3136
Storrs, CT 06269-3136
Phone: (860) 486-3582
Fax: (860) 486-4745
EMail: csung@uconnvm.uconn.edu

http://www.ims.uconn.edu/polymer/index.htm

Assistant/Associate Professor (Victor J. Baxt Chair)
Department of Chemical Engineering
University of Rhode Island
Kingston, Rhode Island

Qualifications: Candidates must have a distinguished record of critical accomplishments that is commensurate with the level of application and their current position in either industry, academics, or government research laboratories, and must be able to develop an internationally recognized research program at URI with both government and industrial support. The candidate must have a Ph.D. with at least one degree in Chemical Engineering or a closely allied field. Evidence of teaching abilities or mentoring is desirable.

Responsibilities: She/he will be expected to take a leadership role in developing a polymer engineering program at URI and participate actively in the core Chemical Engineering undergraduate and graduate teaching programs of the Department. The Victor J. Baxt Chair will have the opportunity to control the use of revenues from the endowment, and is subject to the conditions of the endowment.

Application Deadline: Candidate screening begins in October 1999 and will continue until the position is filled.
Application Procedure: Applications, including a letter of interest a current CV, statements of future research and teaching plans and names of at least three references, should be forwarded to:

Prof. Arijit Bose, Chair  
Victor J. Baxt Chair Search Committee, Log #081064  
P.O. Box G  
University of Rhode Island  
Kingston, RI 02881  
Phone: (401) 874-2804  
Fax: (401) 874-4689  
EMail: bosea@egr.uri.edu

For more about ChemE at URI, visit [http://www.egr.uri.edu/che/](http://www.egr.uri.edu/che/)

**Assistant Professors (4)**  
Institute of Biomaterials and Biomedical Engineering  
University of Toronto  
Toronto, Ontario  
CANADA

Qualifications: Applicants may have a life sciences and/or an engineering/physical sciences background. For one of the positions, they must have an electrical or computer engineering background. The successful applicant will have a Ph.D., excellent teaching skills, a strong background in his or her discipline and demonstrated success at collaborative research at the interface between engineering and medicine/dentistry. The individual will be expected to teach at the undergraduate and graduate level. Some individuals may be expected to contribute to the Centre for Cellular and Biomolecular Research, a new multi-disciplinary facility.

Preferred Research/Teaching Foci: The individual will be expected to initiate and maintain an independent research program, of international calibre, in one (or more) of the following areas (order is alphabetical):

- Cellular and Tissue Engineering
- Molecular Imaging
- Nano- and Micro-technology (biomedical aspects)
- Neural Engineering
- Proteomics and Bioinformatics (engineering aspects)
- Rehabilitation Engineering
- Sensory Systems

About the Institute of Biomaterials and Biomedical Engineering: The Institute of Biomaterials and Biomedical Engineering is part of three Faculties: Applied Sciences and Engineering, Dentistry, and
Cross-appointments to a Department within these Faculties may also be arranged, depending on the individual.

Application Deadline: To ensure consideration, interested individuals should send application before January 10, 2000.

Application Procedure: Applicants should send a CV and three references to:

Prof. Michael Sefton, Director
Institute of Biomaterials and Biomedical Engineering
University of Toronto
4 Taddle Creek Road, Room 407
Toronto, ON
M5S 3G9
CANADA
Phone: (416) 978-3088
Fax: (416) 978-4317
EMail: sefton@chem-eng.utoronto.ca

For more about the Institute of Biomat/Biomed Eng at UToronto, visit http://www.ibme.utoronto.ca/

Tenure-Track Faculty
Department of Chemical Engineering
Clarkson University
Potsdam, New York

Qualifications: The Department seeks individuals who possess an outstanding academic record and have demonstrated a commitment to excellence in undergraduate and graduate education, and a re capable of establishing a strong international reputation for their research program. Applicants should possess a Ph. D. in Chemical Engineering or a closely related field.

Preferred Research/Teaching Foci: Our present strengths are in materials processing, transport phenomena, computer-aided process engineering, and chemical reaction engineering.

Application Deadline: Review of applications will begin immediately and will continue until the position is filled.

Application Procedure: Send letter of application, resume, statement of research plans, copies of undergraduate and graduate transcripts, a set of representative publications and a list of 4 references to:

Prof. Ross Taylor, Chair
Department of Chemical Engineering
Assistant/Associate Professors (2)
Chemical Engineering Program
Louisiana Tech University
Ruston, Louisiana

Qualifications: The Program is seeking individuals who possess an outstanding academic record, have a demonstrated commitment to excellence in undergraduate and graduate education, and are capable of establishing a strong research program. Applicants must have a Ph.D. in chemical engineering or a closely related field. The successful candidate will demonstrate the potential for building strong multidisciplinary interactions through existing research focal areas including micro-scale reactors and sensors.

Preferred Research/Teaching Foci: Selected candidates will be expected to develop an externally-funded research program in one of the following fields:

- Chemical and enzyme-based catalytic reactors
- Membrane/thin films separations
- Biomaterials or biotechnology

An accompanying strength in chemical engineering design is desirable.

Application Deadline: Review of applications will begin on December 1, 1999 and will continue until all positions are filled. Positions are scheduled to start June 2000.

Application Procedure: Qualified individuals should send a copy of their CV, a statement of teaching and research interests, and the names of three references to:

Dr. Bill B. Elmore, Chair
Chemical Engineering Search Committee
College of Engineering and Science
Louisiana Tech University
P.O. Box 10348
Ruston, LA 71272
Tenure-Track Faculty (2+)
Department of Chemical Engineering
University of Wisconsin-Madison
Madison, Wisconsin

Qualifications: Department seeks outstanding individuals with a Ph.D. and a strong background in Chemical Engineering. Candidates should have a distinguished academic record, exceptional potential for creative research, and a commitment to both undergraduate and graduate instruction. For more senior applicants, an outstanding reputation in the field of specialty is a prime requirement.

Application Deadline: The Search Committee will begin reviewing applications in October, 1999 but applications received prior to the deadline of December 31, 1999 will receive full consideration.

Application Procedure: Applications with supporting documents and a list of at least three references should be sent to:

Prof. N. L. Abbott, Chairman
Faculty Search Committee
Department of Chemical Engineering
University of Wisconsin-Madison,
1415 Engineering Drive
Madison, WI 53706,
Phone: (608) 265-5278
Fax: (608) 265-5434
EMail: abbot@engr.wisc.edu

For more about ChemE at the Univ. of Wisconsin/Madison, visit http://www.engr.wisc.edu/che/

Junior/Senior Faculty (2+)
Department of Chemical and Petroleum Engineering
University of Pittsburgh
Pittsburgh, Pennsylvania

Qualifications: We are interested in highly motivated individuals who can effectively bridge areas of departmental expertise and leverage current capabilities. Application Procedure: Please send a CV,
names of four references, research and teaching plans to:

Prof. Eric J. Beckman  
Department of Chemical and Petroleum Engineering  
Benedum Hall 1249  
University of Pittsburgh  
Pittsburgh, PA 15261  
Phone: (412) 624-9641  
Fax: (412) 624-9639  
EMail: beckman@vms.cis.pitt.edu

For more about ChemE/PetrE at Univ of Pittsburgh, visit http://www.engrng.pitt.edu/~chewww/index.html

Tenure-Track Faculty (3)  
Department of Chemical Engineering  
Drexel University  
Philadelphia, Pennsylvania

Qualifications: The candidate(s) must hold a Ph.D. in Chemical Engineering or a closely related discipline. His or her research area although open, should enjoy the potential for significant external support. Our department seeks individuals with exceptional promise for establishing strong research programs and for developing effective teaching skills.

Application Procedure: Send a CV, along with a summary of research plans and names of two professional references to:

Prof. Masoud Soroush, Chair  
Faculty Search Committee  
Dept. of Chemical Engineering  
Drexel University  
3141 Chestnut Street  
Philadelphia, PA 19104  
Phone: (215) 895-2227  
Fax: (215) 895-5837  
EMail: masoud.soroush@coe.drexel.edu

For more about ChemE at Drexel University, visit http://www.drexel.edu/minisite/undergrad/pages/academic/pages/majors/pages/chem_engin.html

Department Chair
Department of Chemical and Bioresource Engineering
Colorado State University
Fort Collins, Colorado

Qualifications: The successful applicant will have an earned doctorate degree in chemical engineering, agricultural engineering or a closely-related field; a demonstrated record of excellence in research and teaching appropriate to appointment at the level of tenured full professor; and outstanding communication, leadership and interpersonal skills. Responsibilities: The Department Chair will provide leadership to build and enhance programs in undergraduate and graduate education and funded research, establish internal and external partnerships, and foster collaborative relationships with government agencies and industry.

Department Research Foci: Research emphasizes such areas as biotechnology, biomedical engineering, process simulation and control, advanced materials and polymer engineering, environmental engineering, water quality monitoring, irrigation and drainage, power and machinery, and application of GPS and GIS systems.

Department Profile: The Department, which consists of sixteen Chemical and Bioresource Engineering faculty members, has a record of very high-quality education and research. B.S., M.S. and Ph.D. degrees are offered in both Chemical Engineering and Bioresource and Agricultural Engineering. There are approximately 160 undergraduate and 40 graduate students majoring in Chemical Engineering, and 60 undergraduate and 30 graduate students majoring in Bioresource and Agricultural Engineering.

Application Deadline: Application review will begin January 15, 2000 and will continue until the position is filled.

Application Procedure: Interested candidates should send a letter of interest, a description of his/her philosophy on education, leadership and management, a current resume, and names and addresses, and phone numbers of three references to:

Dr. Timothy W. Tong, Chair
Chemical and Bioresource Engineering Department Chair Search Committee
Department of Mechanical Engineering
Colorado State University
Fort Collins, CO 80523-1374
Phone: (970) 491-6559
Fax: (970) 491-3827
EMail: tong@engr.colostate.edu

For more about ChemE, AgEng and BioRes Eng at CSU, visit http://www.engr.colostate.edu/depts/chembio/
Assistant/Associate Professors (2+)
Department of Chemical Engineering
Michigan Technological University
Houghton, Michigan

Qualifications: The Department seeks individuals who possess an outstanding academic record, have demonstrated commitment to excellence in undergraduate and graduate education, are capable of establishing a strong research program, and compliment MTU’s existing strengths. Applicants with significant industrial experience are encouraged to apply. Applicants must possess a Ph.D. in Chemical Engineering or related discipline.

Preferred Research/Teaching Foci: Priority will be given to faculty candidates with an interest in bioengineering (biochemical or biomedical), but outstanding candidates in all areas of chemical engineering will be considered. Positions are available in Chemical Engineering, with the possibility of a joint appointment in the Center for Biomedical Engineering for applicants with interests in this area.

Application Deadline: Applications received on or before Jan. 1, 2000 will be given first priority for full consideration.

Application Procedure: Please send letter of application, CV, statement of research plans and teaching interests, the names and addresses and phone numbers of three references, and a set of representative publications, to:

Faculty Search Committee
Chemical Engineering Department
Room 203, CSE Building
1400 Townsend Drive
Houghton, MI 49931-1295
Phone: (906) 487-3132
Fax: (906) 487-3213
EMail: cmquestions@mtu.edu

For more about ChemE at Michigan Tech, visit http://www.chem.mtu.edu/chem_eng

Assistant Professor
Department of Chemical Engineering
University of Minnesota/Duluth
Duluth, Minnesota

Qualifications: Candidates must have an earned doctorate in chemical engineering or closely related field. Demonstrated evidence of effective teaching and communication skills appropriate to a faculty member is required and industrial experience is desired.
Responsibilities: The successful candidate is expected to teach core chemical engineering courses, advise students, promote outreach and develop a research program.

Preferred Research/Teaching Foci: Areas of teaching emphasis include senior design, process control, materials science fluids, heat and mass transfer.

Application Deadline: Review of complete applications will start December 17, 1999 and will continue until the position is filled. Position starts September 1, 2000.

Application Procedure: Please submit a letter describing teaching interests and research program plans, a detailed resume, and the names and addresses of three references to:

Dr. Dianne Dorland
Chemical Engineering Search Committee
Department of Chemical Engineering
University of Minnesota/Duluth
10 University Drive
Duluth, MN 55812-2496
Phone: (218) 726-7126
Fax: (218) 726-6907
EMail: ahedin@d.umn.edu

For more, visit http://www.d.umn.edu/che

Faculty (Endowed Chair)

Faculty (Multiple Positions/All Ranks)
Department of Chemical Engineering
Texas A&M University
College Station, Texas

Endowed Chair Qualifications: Candidates must have a Ph.D. in Chemical Engineering, a commitment to excellence in undergraduate and graduate education, and be recognized nationally and internationally as having made significant contributions to the art and science of Chemical Engineering through scholarly contributions.

Preferred Research/Teaching Foci: The areas of research are advanced materials, microelectronics, computer-aided process engineering and optimization.
Faculty Qualifications: Applicants should have a Ph.D. in Chemical Engineering and they should have the potential and a commitment for excellence in undergraduate/graduate teaching and research.

Preferred Research/Teaching Foci: Research areas of particular interest are process safety, simulation, control and design, polymers/colloids, material science, catalysis and biotech/biomedical. Other research areas will be considered for truly exceptional individuals.

Application Procedure: For either of these positions, applicants should send a CV, names of three references, and a detailed statement of research and teaching interests to:

Prof. Rayford G. Anthony
D. Holland Professor and Head
Department of Chemical Engineering
Texas A & M University
College Station, TX 77843-3122
Phone: (409) 845-3370
Fax: (409) 845-6446
EMail: rga5094@chennov1.tamu.edu

For more about ChemE at Texas A & M, visit http://www-chen.tamu.edu/

Department Chair
Department of Biomedical Engineering
University of Virginia
Charlottesville, Virginia

Qualifications: The position is at the endowed professor level and the successful candidate is expected to have a very strong grounding in engineering or applied science as well as in biomedical sciences. The chair will be expected to take the key leadership role in implementing a major expansion of the departmental research and educational programs. The Development Award received recently from the Whitaker Foundation will serve as the focal point for this expansion. The departmental expansion is intended to result in significant advances in biomedical engineering thrust areas such as: Medical imaging, in vivo sensing and characterization and gene therapy, including design, analysis and delivery.

It is anticipated that this person will guide the hiring of four additional new faculty, with expertise in areas such as microsystems technology medical imaging, genetic engineering and biotechnology, biomaterials and tissue engineering to complement targeted thrusts in cardiovascular engineering. This recruiting will, over the next four years, bring the faculty size to roughly twenty tenure and tenure track members, with approximately half the faculty holding tenure in each of the two schools.
The University is in the process of constructing a new Biomedical Engineering and Medical Science Building in the midst of the University of Virginia Health Sciences Center as part of a Whitaker Special Grant. In addition to Biomedical Engineering this building will house the Cardiovascular Research Center and the Department of Pathology. The new building is a short walk from the School of Engineering complex, ensuring that the departmental teaching and research programs will retain their strong linkage to the School of Engineering and Applied Science.

Application Procedure: Interested applicants should send a CV and the names of three professional references to:

Dr. Milton Adams, Chair  
BME Search Committee  
A115 Thornton Hall  
School of Engineering and Applied Science  
University of Virginia  
Charlottesville, VA 22903  
Phone: (804) 924-3734  
Fax: (804) 924-0702  
EMail: jma@virginia.edu

For more about the Dept of Biomedical Engineering at UVirginia, visit http://www.med.virginia.edu/bme/

Chair/Professor
Department of Chemical and Biochemical Engineering
University of Maryland/Baltimore County
Baltimore, Maryland

Qualifications: Candidates should have a Ph.D. in chemical engineering or a closely-related field. The candidate must be qualified to be tenured at the level of a full professor, and is expected to maintain a vigorous research program. The chair must have a commitment to excellence in undergraduate and graduate education and to furthering the Department's position as an internationally-known center for biochemical and biomedical engineering.

Preferred Research/Teaching Foci: The Department's current research focus is in the area of biochemical and biomedical engineering, but all areas will be considered.

About the Department: The Department has nine full-time faculty members and it is expected that additional faculty members will be hired in the next few years. Approximately 100 students are enrolled in the Department's ABET-accredited chemical engineering undergraduate program. Graduate enrollment is about 30 students, mostly in the Ph.D. program. The Department has state-of-the-art facilities and is located in an new $26M building. Excellent opportunities exist for interaction with a
number of federal laboratories (such as NIST, NIH, FDA, USDA and NRL) and local companies.

About UMBC: UMBC is a research university in the University system of Maryland, located in the Baltimore/Washington corridor, and emphasizes science, engineering and public policy. Current enrollment is 9,000 undergraduate and 1,500 graduate students. UMBC's external research support is increasing and now exceeds $50M per year.

Application Deadline: Screening of applicants will start on January 3, 2000 and will continue until position is filled.

Application Procedure: Interested candidates should send a CV and statement of research interests to:

Dr. Antonio Moreira, Chair
Search Committee
Office of the Provost
UMBC
1000 Hilltop Circle
Baltimore, MD 21250
Phone: (410) 455-6576
Fax: (410) 455-1182
EMail: moreira@umbc.edu

For more about ChemE at UMBC, visit http://www.umbc.edu/cbe

Tenure-Track Faculty (2)

Chemical Engineering Program
College of Engineering
Florida International University
Miami, Florida

Qualifications: A doctoral degree and a proven record of (of potential for) excellence in teaching and funded research is required. Experience as a student and/or faculty member in an ABET-accredited chemical engineering program is highly desirable. Salary and rank commensurate with experience.

About the FIU Chemical Engineering Program: The College of Engineering at Florida International University (FIU) has initiated a Chemical Engineering Program, to be administered within the Mechanical Engineering Department. Application Deadline: Applications must be postmarked by February 1, 2000.

Application Procedure: Send CV and three professional references to:

Chair, Chemical Engineering Search and Screen Committee
**Assistant Professor**
The Howard P. Isermann Department of Chemical Engineering  
Rensselaer Polytechnic Institute  
Troy, New York

Qualifications: We are looking for outstanding individuals who have carried out first rate research and who will develop internationally renowned research programs. In addition, we are seeking a strong commitment to teaching excellence at both the undergraduate and graduate levels.

Preferred Research/Teaching Foci: The Department conducts dynamic research programs in the areas of biochemical engineering, separations and bioseparations, polymer and materials processing, interfacial phenomena, nanoparticle and porous systems, combustion, heat transfer, microelectronics processing, and process control.

Application Deadline: Appointment will begin September 2000 -- application deadline not specified.

Application Procedure: Qualified individuals should send a copy of their CV, a statement of research and teaching interests, and the names of three references, as soon as possible to:

Prof. Steven M. Cramer  
Chair, Faculty Search Committee  
Isermann Department of Chemical Engineering  
121 Ricketts Building  
Rensselaer Polytechnic Institute  
Troy, NY 12180-3590  
Phone: (518) 276-6377  
Fax: (518) 276-4030  
EMail: crames@rpi.edu

For more about ChemE at RPI, visit [http://www.rpi.edu/dept/chem-eng/](http://www.rpi.edu/dept/chem-eng/)
Publication Schedule

Your news items, faculty and student distinctions, as well as announcements, job postings and other information for the ChemE community are invited for the upcoming issue! Faculty, staff, students, alumni/ae - what's the latest exciting development in your lab? Perhaps you recently returned from a fascinating trip, professional conference, or participated in an honorary lecture series, or received a notable award. Don't be shy - the Course X community wants to hear the latest about you! Here are the dates for the spring issues of the Course X News:

<table>
<thead>
<tr>
<th>Issue</th>
<th>Submission Deadline</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>1/03/2000</td>
<td>1/10/2000</td>
</tr>
<tr>
<td>February</td>
<td>1/31/2000</td>
<td>2/07/2000</td>
</tr>
<tr>
<td>April</td>
<td>4/03/2000</td>
<td>4/10/2000</td>
</tr>
</tbody>
</table>

Thanks To...

Jenise Aminoff, Professor Bob Armstrong, Elaine Aufiero, Arline Benford, Janet Fischer, Dr. Jonathan Harris, Erja Kajosalo, Professor Robert Langer, Professor Douglas Lauffenburger, Geoff Moeser, Carol Phillips, Emmi Snyder, Dr. John Tolsma, and Liz Webb for their contributions to this edition of the Course X News!

Submissions for the Course X News should be sent to:

Gregory Sands, Administrative Assistant for Publications
Administrative Services Organization
77 Massachusetts Avenue, 8-328