November 1, 1995

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Faculty Distinctions

Department Announces Hoyt C. Hottel Professorship

The department is very pleased to announce the creation of the Hoyt C. Hottel Professorship for a senior faculty member in the department. With the creation of this chair, Professor Hottel joins Warren K. Lewis and Edwin R. Gilliland as faculty who have received this honor.

It is also a pleasure to announce Jack B. Howard as the first Hoyt C. Hottel Professor of Chemical Engineering. Professor Howard is one of the world's most eminent scholars in the area of combustion research. Congratulations to Professors Hottel and Howard on this important recognition. A departmental reception was held in their honor on Monday afternoon, October 30, 1995.

Margaret Rousseau: AIChE Pioneer
This spring, when AIChE announced its latest crop of 50-year members, Margaret Hutchinson Rousseau became the first female to achieve this milestone. A true pioneer, Ms. Rousseau was not only the first woman to receive a doctorate in Chemical Engineering from MIT, but was also the first female member of the Institute.

Ms. Rousseau completed her undergraduate work in Chemical Engineering at Rice Institute (now Rice University) in Houston. Her first assignment was with E. B. Badger & Sons, moving to Stone & Webster Engineering Corporation when it acquired Badger's engineering department. There, she held several posts. Before retiring, she worked as a part-time consultant.

Ms. Rousseau's honors include AIChE's 1983 Founders Award (another first for a female) and the 1955 Achievement Award of the Society of Women Engineers.

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The Annual Chemical Engineering Department Phoneathon to alumni/ae donors was held on Thursday, October 12th in the Vannevar Bush Room. This year's corps of callers was organized by GSC Vice President Kathy Vaeth, and included a crew of first and second-year graduate students. Fortified by a hearty dinner, and inspired by Department Head Robert Brown, the 27 callers set new standards of excellence for ChemE donations. Callers reached 583 alumni/ae during the evening, and secured 156 specified pledges and 157 unspecified pledges. The pledge rate was 54%, and 27% of the alums who gave specified pledges chose to upgrade their gifts. The money raised during the telethon goes directly to fellowship support for new graduate students. A point system, in place to reward the top callers, reaped substantial rewards for Rebecca Carrier and Eric Fallon, who won one-night stays at the Hyatt and Royal Sonesta! All callers received the traditional Phoneathon tee-shirt, and MIT wine and water glasses. Throughout the evening, Toscanini's gift certificates, Comedy Club and Computer Museum passes were distributed for meritorious individual performances.

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by Barry Johnston

by Janet Fischer

by Carol Phillips, the Practice School Lady
The Rosemary Wojtowicz Fellowship Award is given to the Practice School student who demonstrates the personal qualities most reminiscent of Rosemary Wojtowicz; that is, kindness and concern for the well-being of others. An endowment resulting from major contributions by the Wojtowicz family, Jacob Geist, Air Products and Chemicals, and many Practice School alumni/ae makes it possible to award this fellowship annually. This year the recipient is: Jorge Cantu. Jorge attended the Natick Labs and Midland Stations. He graduated with his MSCEP and is currently working for McKinsey in Mexico. These last two are special prizes: The J. Edward Vivian Prize is awarded to the Practice School student who shows outstanding leadership and management of his/her project work. This year the awardee is: William Grieco. Bill is working on his PhD in experimental and modeling study of the synthesis of fullerenes in flames. His advisor is Professor Jack Howard. The Jefferson W. Tester Prize is given to the student who shows the most enthusiasm and leadership while in Practice School closely resembling that of Professor Tester. This year the prize goes to: Andrey Zarur. Andrey is working on his PhD in "Aqueous Fuel Nanoemulsions" which have the potential of reducing NOx emission while enhancing fuel efficiencies in automobiles. Andrey's advisor is Professor Jackie Ying.

Computer Corner

by Peter Maloof

BACKING UP YOUR COMPUTER

The typical computer user doesn't back up his or her work regularly. Why? The hardware is expensive, tapes are too slow, you don't have too many disks, the software is a pain to use, you don't have much data anyway.... The Office of Operations and Systems has a solution: the ADSTAR Distributed Storage Manager (ADSM). ADSM provides these benefits: ¥ Runs on OS/2, Windows 3.1 and Macintosh System 6.0.7 or better. ¥ Backup and restore takes place via the network; no disks or tapes are involved. ¥ Your data is stored away from your computer (in Building W91), for increased data security. ¥ Each file can have up to ten backup copies. ¥ You can back up as often as you want, any time you want. ¥ Your computer can be backed up overnight, automatically. ADSM costs $5 per month per machine. Interested parties can E-Mail the following information (or any questions) to me at pj@mit.edu: Your name Room number Phone number E-Mail address Operating System.

KEEP YOUR SOFTWARE LEGAL

As most everyone is aware, it generally is illegal to install a software product on more than one computer. So how do you outfit everyone in your office without going over budget? Many software companies will happily sell you a site license. You can then install their product on as many computers as the license allows. A site license generally sells for about half the cost of the original product. The cost is low, because you don't get
any additional disks, CD-ROMs or manuals. These products, among many others, have site licenses available: FileMaker Pro Microsoft Office Now Up-to-Date WordPerfect"Local" license requests (in the same suite or lab) are best handled by the people involved; "distributed" licenses (disparate people or groups) can go through me. I will maintain lists of people wanting specific products, ordering them when a list hits a sale point. If the sale point isn't reached within a reasonable time, the interested parties will be notified. If you have any questions about computers, feel free to email me at pjm@mit.edu.

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**Job Listings**

**Academic**

S.U.N.Y. at Buffalo, Department of Chemical Engineering, seeks applications to two tenure-track faculty positions with a starting date of September 1, 1996. Backgrounds in bioengineering, fluid mechanics, materials (polymers/biological), or modern process design/separations is preferred. PhD in chemical engineering or closely related field required. Applications should be submitted by January 1, 1996. For more information, visit Web site at: http://www.eng.buffalo.edu/dept/ce/index.html.

NEW MEXICO STATE UNIVERSITY, Department of Chemical Engineering, seeking to fill tenure-track faculty position available Fall Semester 1996. Rank is open. PhD in chemical engineering or closely-related field required. Candidates with industrial experience and P.E. registration are preferred. See WWW home page: http://chemeng.nmsu.edu for background information on the department. Applications must be postmarked by November 30, 1995.

AUBURN UNIVERSITY, Department of Chemical Engineering, invites applications for two new tenure-track faculty positions. PhD in chemical engineering or related field required. Positions are at the assistant professor level.

UNIVERSITY OF DELAWARE, Department of Chemical Engineering, has tenure track faculty position at the junior level. PhD in chemical engineering or closely-related field required. Additional information about the department can be found on the Web: http://www.che.udel.edu. Applications must be postmarked by December 1, 1995.

CORNELL UNIVERSITY is seeking applications for a new tenure-track position in the area of biomedical engineering. Rank open. Candidate's research should be able to bridge from cellular and molecular bioengineering to improved or novel therapeutic devices or strategies. Successful candidate will be appointed to a position in chemical engineering. Applications should be submitted by December 1, 1995 to ensure full consideration.
UIUC, Department of Chemical Engineering, invites applications for full time regular faculty positions at all levels. Starting date: August, 1996. In order to ensure full consideration, applications must be received by January 1, 1996. PhD required.

NORTH CAROLINA A&T STATE UNIVERSITY, Chemical Engineering, has an adjunct faculty opening for the spring semester of this academic year. B.S. in chemical engineering required, PhD in chemical engineering or closely-related field preferred. Position open to all areas of chemical engineering. Preference will be given to those individuals who have interest in process control and laboratory development and can start on January 2, 1996. To ensure full consideration, applications must be received by November 15, 1995.

SOONG SUL UNIVERSITY, Seoul, Korea is looking for prospective faculty members for AY96. Preference to Korean-speaking graduates, postdoctoral scholars or faculty holding a PhD in their respective major field.

LOUISIANA TECH UNIVERSITY, Chemical Engineering Department, anticipates at least one tenure-track opening. All areas and ranks will be considered. PhD in chemical engineering required. Preferred start date: August 1996. To ensure full consideration, applications must be received by January 15, 1996.

OHIO STATE UNIVERSITY, Chemical Engineering Department, seeks applicants for a tenure-track position at the assistant or associate professor level. Preference will be given to candidates with background in fundamental chemical engineering science and research interests in fluid mechanics, catalysis, interfacial phenomena and particle technology (and their applications to environmental problem).

OHIO STATE UNIVERSITY, Endowed Chair in Chemical Engineering: Applications and nominations are invited for the position of Richard M. Morrow Endowed Chair in Chemical Engineering. The Chair is fully endowed by the AMOCO Corporation and the holder of the Chair will be appointed as a full professor with tenure. Candidates must have PhD in chemical engineering or closely-related field, distinguished record in research and scholarship and be recognized as a leader in his/her field both nationally and internationally. Review of applications will begin February 1, 1996.

INJE UNIVERSITY, Department of Chemical Engineering, Korea, invites applications from Korean graduate students for a faculty position in the area of process systems. PhD required. Applications must be received by November 18, 1995.

MICHIGAN TECHNOLOGICAL UNIVERSITY, Department of Chemical Engineering, invites applications for a tenure-track faculty position (open rank). PhD in chemical engineering required. More information about the department available on the WWW: http://www.chem.mtu.edu. Applications should be submitted prior to April 1, 1996 for full consideration.
UNIVERSITY OF TOLEDO, Department of Chemical Engineering, is seeking applications for several tenure-track positions. PhD in chemical engineering or closely-related field required. Industrial and/or teaching experience desirable. Preference given to applicants with a specialty in polymers, membranes and/or particle technology.

WASHINGTON UNIVERSITY IN ST. LOUIS, Department of Chemistry, invites applications for a tenure-track faculty position to begin in September, 1996. Particular interest in candidates having research interests in materials chemistry, but the area of subdisciplinary specialization is not otherwise specified. Review of applications begins November 1, 1995.

UNIVERSITE LAVAL, Department of Food Science and Technology, Quebec, seeks a qualified applicant for postdoctoral/research associate position. PhD (or M.Sc. with required experience) in chemical engineering or food process engineering with strong background in separation processes required. Knowledge in crystallization desirable. Two year position with possibility for renewal to a third year. Available immediately.

**Industrial**

ELF AQUITAINE has immediate opening for a postdoctoral rheologist with expertise in melted polymers. Work located in laboratory of company's chemical division, Elf Atochem. Work site is in Normandy, approximately 1-1/2 hours west of Paris by car.

STRATEGIC DECISIONS GROUP, a strategy consulting company with offices in Boston, Menlo Park CA and London, is hosting an information briefing for PhD candidates interested in pursuing a career in management consulting. This informal session will be on Monday, November 13, 1995, 6-8 PM at the Marriott Hotel in Kendall Square. For more information, contact Todd Anderson via email, todda@mit.edu, or vmail 617-478-7621.

CABOT CORPORATION, has several open positions for candidates with a PhD in chemical, and mechanical engineering, organic chemistry and other related fields. Call Ken Tebbetts for further information about the position descriptions (508-670-6132).

CERAMEM SEPARATIONS, a leading innovator in ceramic membrane separation technology and hot gas filters is looking to fill several positions, including Field Engineer, QC engineer and Quality Technician. If interested, fax your resume to Ed Russell (617-899-1227).

For more information, see the complete job listings in the Student Office (room 66-366).
Visitor Profiles

Dr. Jens Nielsen recently joined Prof. Gregory Stephanopoulos' research group as a Visiting Scientist. He is on sabbatical from the Technical University of Denmark where he had been a senior researcher in the Department of Biotechnology headed by John Villadsen. Jens will be working in the area of metabolic engineering with applications to secondary metabolite biosynthesis. Jens is accompanied by his family. Please join us in welcoming them all to the U.S.

Dr. Andrea O'Connor joined Prof. Alan Hatton's research group in July as a Postdoctoral Associate. Andrea has come to MIT from Melbourne University, Australia, as a Fulbright Scholar. Her PhD focused on the potential scaleup of electrophoresis in free solution using microfiltration membranes, as a method of protein separation. Her research at MIT will involve studies of mass transfer across interfaces and the application of structured fluids as separations media. Andrea enjoys swimming, hiking and cross-country skiing in her spare time. She and her husband, Andrew Ducret, live in Cambridge. Andrea is in room 66-317 and can be reached on ext. 2-1502.

Prof. Arijit Bose has joined Prof. Alan Hatton's group. Arijit is on sabbatical leave from the University of Rhode Island for the calendar year 1995-96. He is working on the "Thermodynamics and Kinetics of Phase Transitions in Mixed Surfactant Systems." This is his second sabbatical at MIT. Arijit says he is thoroughly enjoying it. He writes: "I am doing experiments myself after nearly twelve years and have already developed a renewed understanding of what it is like to be in the trenches. Now I will surely be more sympathetic to students who don't get all those critical experiments completed overnight." Arijit and his wife, Nazneen, have two daughters (ages 7 and 3-1/2). Together, the girls keep their parents on their toes! Prof. Bose is in room 66-325 and can be reached on ext. 3-6594.

Dr. Henning Richter has joined Prof. Jack Howard's research group as a NATO Postdoctoral Fellow. Henning is originally from Germany, but comes to us from Belgium where he obtained his PhD in chemical sciences in the combustion chemistry laboratory of Prof. Pierre Van Tiggelen at the Universite Catholique de Louvain, and also studied fullerenes synthesis in flames with Prof. Amand Lucas in the Physics Department at the Universitaires N.D. de la Paix. Henning began his combustion research in Germany while completing studies for a diploma in chemical engineering in the Chemistry Department at Technische Hochschule Darmstadt under the supervision of Prof. Klaus Homann. The focus of Dr. Richter's work at MIT is isolation and characterization of giant fullerene molecules formed in flames. Return to the top.
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*Submissions for the Course X News should be sent to Darlene Messmer-Slagle, dms@mit.edu.*