New way to make chips could lead to more powerful computers

By James E. Kloeppel

A novel method of making computer chips could produce personal computers that would be a thousand times more powerful than today’s desktops, says a UI scientist who helped develop the technique.

The process, called SCALPEL (for “scattering with angular limitation projection electron lithography”) can make chips with extremely small features.

“The smaller the feature, the faster the device and the more components you can pack into a computer chip,” said Murray Gibson, a professor of physics and of materials science and engineering, and associate director of the Frederick Seitz Materials Research Laboratory.

“Today’s integrated circuits are produced by optical lithography,” Gibson said. “The process consists of projecting a pattern of light onto a light-sensitive material, which employs a novel projection method for writing large areas with electrons.

In 1989, Gibson co-invented the technique with Steven Berger of Integrated Solutions Inc. while both were employed at AT&T Bell Laboratories (now Lucent Technologies). Twenty-seven years ago, Gibson bought his first mechanical clock from a farmer in Minnesota. “It ran about a week,” he said. “I took the works out and took it to a jewelry store. They said to me ‘What is it?’ and I knew I was in trouble.”

So he slowly took apart the works, piece by piece, and taught himself how to repair it, he said. He also went to an expert, Bill Smith at Parkland Community College, who helped write his dissertation. Smith also periodically gave Hannon tips on clock repair.

Since those years of trying to sort the gears, springs and other parts, Hannon has worked on everything from pocket watches to tower clocks, and on timepieces more than 300 years old.

“He’s learned one cardinal rule. “It’s an ecological lesson, really,” he said. “It’s rule No. 1. If there’s one thing I’ve learned, it’s save all the parts.”

Of course, he’s gained a little more insight into how the left parts are probably needed.

“I have fixed a couple of thousand clocks now and run across a lot of different maladies,” said Hannon, who sometimes has more work than he can handle. He doesn’t advertise his service, but people still find him to fix their clocks.

“I work on clocks with an average age of 85 to 90 years,” he said. “Every year the pool of old clocks gets bigger. People inherit family heirloom clocks they want to hear strike again. People want to keep maintaining them because they are relics of their ancestors. Clocks outlive their owners. They’ll outlive me.”

Hannon’s career choice takes him far from the hands-on experience of mechanical workings. He left engineering to become more involved in environmental work, he said.

“There’s a reason why I got into engineering,” he said. “This [clock repair] helps me keep a finger in it.”

It’s work he likes because of the concrete results.

“I fix a clock and say, ‘I think I’ve got it running,’ and it lets you know whether or not you have,” Hannon said.

There’s also another kind of pleasure in fixing a clock and hearing it tick off time again.

“It’s the pleasure of restoration and really fixing something, when it runs well, long and accurately,” Hannon said. “It’s restoring craftsmanship of the past, restoring a labor of the past.”

(See Hannon, page 12)
Senate discusses financial cutbacks at library

By Shannon Vicic

Financial cutbacks at the UI library were the topic of discussion at one of the meetings of the whole at the Sept. 22 meeting of the Urbana-Champaign Senate.

According to Senate librarian Robert Wedgeworth, there is a growing gap between the cost of library materials and the funds available for purchasing those materials.

Subscription prices for printed journals have escalated rapidly in recent years, with some journals experiencing double-digit inflationary price increases annually. For example, a subscription to the journal Brain Research cost $6,000 in 1992, but will cost $15,000 in fiscal year 1998, he noted.

"If we were to have the same journal collection in 1997 that we had the year that I arrived, 1992, it would mean adding approx-imately $2 million to the budget for casually serials," Wedgeworth said.

At the same time, the library is also faced with the need to develop and support a more advanced technological infrastructure.

"Many of the newer materials are coming out in electronic formats. We have to have the technological infrastructure to provide access to those materials," Wedgeworth said.

Next summer, the library will replace its current online catalog, which is nearly 20 years old, with a new statewide, integrated library management system. More than 200 new, Pentium workstations have been installed in the library in preparation for the new system.

"The combined impact of rising material costs and the expensive technological upgrades has created a serious problem for the library's budget. At the end of fiscal year 1997, the library had a deficit of $800,000.

"Our budget isn't adequate to chase those kinds of increases in materials cost and at the same time invest in our technological infrastructure," Wedgeworth said.

To cope with the deficit, the library has taken a number of steps, including reducing fund budgets to their fiscal year 1996 levels. The income decrease has led to a reduction in the journal and periodical subscriptions purchased by the library.

"Adjusting the budget means that we will have to require some behavioral changes on the part of the library's patrons," Wedgeworth said.

"Users will have to rely more heavily on online abstracts and indexes as well as interlibrary borrowing programs.

"In addition to cutting budgets, the library has scheduled several discussion sessions with faculty members to help provide them with an understanding of the issues the library is facing and to seek their advice on strategies for coping with those issues. Faculty members interested in attending those discussion sessions can find a schedule on the library's Web site.

"Faculty members who miss senate meetings won't be kicked out of the senate. A proposal that would require faculty senators to be present at all senate meetings was voted down by the senate.

"The issue was a holdover from the final meeting of the previous academic year. In recent years, poor attendance at senate meetings has resulted in forced adjournment of several meetings because of quorum calls.

"A recent amendment to the senate constitution, which reduced the number of senators needed for a quorum to 100, has not solved the problem.

"Under the proposed amendment, a senator who missed consecutive senate meetings during the academic year and failed to notify the senate clerk prior to those absences would receive a letter automatically resigning the senator from his or her seat, unless the senator contacted the senate clerk within 14 days.

"The senate will be reinstated by contact- ing the senate clerk, but could be reinstated only once in any senate term. The senate is going to come up for discus- sion. Alfred Kagan, a professor of library administration, said that rather than elimi- nating non-participating senators, the sena- tor needed to look at the underlying issue, which is why senators aren't coming to meetings."

"Since they're just approving documents already on the agenda, they probably don't think it will make a difference (if they come)"

Kagan suggested that the senate need to do some outreach to make senators aware of the issues addressed in the senate. He also said that it was the responsibility of individual departments, and not the senate, to take action when their representatives don't attend meetings.

But H. George Friedman, chair of the University Statutes and Senate Procedures Committee, said that the senate has tried many methods for improving attendance, including notifying individual departments when their senators aren't attending meet- ings, and nothing has worked.

"A vote was taken on the proposal, and it failed by a margin of 8 to 38.

Campus Budget Oversight Committee

The senate did not vote on an item that would have confirmed the membership of the Campus Budget Oversight Committee (CBOC), which is the successor of the Budget Strategies Committee.

The CBOC advises the Provost on the distribution of the planned budget alloca- tion.

Donchin moved that the item be sent back to the Senate Council so that the senate could be given an opportunity to discuss the matter.

He objected to the appointments on the grounds that the senate had not been pro- vided with copies of the revised provisions in the Framework for Budget Reform that would govern how CBOC appointments would be made.

In a committee-of-the-whole discussion of the Framework for Budget Reform dur- ing the previous academic year, several senators expressed concern about how academic units on campus would be repre- sented on that committee.

The senate voted 82 to 44 to refer the item back to the Senate Council.

In Other Business

The Annual Meeting of the Senate was held at Foellinger Auditorium on Sept. 24. Chancellor-Michael Aiken provided an update on the initiatives in the Framework for the Future, the strategic plan for the university. (See accompanying Campus Report for the full text of Aiken's remarks.)

And in a reprise of presentations to the Board of Trustees at its Sept. 11 meeting, President James Stukel presented his vision for the university's strategic issues affecting the future of the university, and Faulkner out- lined the priorities of the fiscal year 1998-99 budget request.

A letter from Provost Larry Faulkner and Senate Council Chair Richard Schacht has gone out to members of the Task Force on the Future of the University Library to confirm their appointments and to offer direction in their work.

The charges include:
- Defining and evaluating the challenges posed by the library by escalating the costs for traditional materials and demands for new materials and services.
- Reviewing the library's proposals for addressing these challenges.
- Converging upon and recommending a specific strategy, based on clear assumptions and their implications, for developing the library in the next decade.
- Reviewing the disposition of the library's current resources in reference to the recommend strategy and recommending appropriate changes.
- Recommending an institutional policy concerning the development of new resources for the library, within annual budget requests, by internal realloca- tion, or other means, in the light of other discernable demands on the same resources.

The members of the task force: Thomas M. Mengler (chairman), dean of the College of Law; George F. Badger, associate director of the Materials Research Laboratory; Nina Baym, professor of English; Howard K. Birnbaum, director of the Materials Research Laboratory; Paul W. Bohn, professor of chem- istry; Leigh S. Estabrook, dean of the Graduate School of Library and Information Science; Jesse G. Delia, dean of the College of Liberal Arts and Sciences; Lianne DeStefano, professor of educational psychology; William R. Schwalter, dean of the College of Engineering; Tom R. Ward, professor of music.

A report has been requested by Nov. 15.

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Andrea Lynn, humanities, social sciences
Melissa Monteleone, arts, wrote on
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Campus Budget Oversight Committee

The senate did not vote on an item that would have confirmed the membership of the Board of Trustees at its Sept. 11 meeting. President James Stukel presented his vision of the university's strategic issues affecting the future of the university, and Faulkner outlined the priorities of the fiscal year 1998-99 budget request.

The senate has gone out to the members of the Task Force on the Future of the University Library to confirm their appointments and to offer direction in their work.
Would you tell us a little about yourself and your job?

I’m an electrical engineer with the Operation and Maintenance Division (O&M). I’ve been at the UI almost two years. I grew up in a family with 13 children and worked in my father’s electrical contracting business. My education includes a bachelor’s and master’s degree in electrical engineering. My wife and I moved here in 1994.

What does your job entail?

Until recently, I was with the O&M engineering design group. Our work included electrical control design and specification for building heating, ventilating and air-conditioning systems. I was working on a variety of energy-conservation projects. My design work focused on the control diagrams and schematics for the variable-frequency drives that were installed in several campus buildings. Variable-frequency drives replace existing motor starters to automatically vary the speed of fans and pumps to save energy in heating and air conditioning systems. I also provide engineering support to many O&M shops.

Your job is changing, isn’t it?

I’m still doing engineering design to finish up some jobs. However, on the first of July, I moved into the energy-management engineering area. My main focus is energy-conservation strategies, initiatives and projects for the campus. Our work utilizes the latest technologies to automate our building mechanical systems. Direct digital control and monitoring of these systems sends status and alarm messages to O&M persons on a 24-hour, seven day per week basis. We try to discover problems before they are apparent to the campus community. I also keep track of campus energy use, costs and trends. This includes budget aspects of energy usage. It is interesting to note that the campus pays approximately $20 million a year for its utilities. This includes electricity, natural gas, water and sewer. Many buildings get their energy from the campus power plant. High-pressure steam produced here is used to drive the campus power plant. High-pressure steam produced here is used to drive the campus power plant. Energy management sounds like a long-term project. What kind of timeline are you working under?

It’s a pretty extensive project. We are continually evaluating possible strategies, while working to keep up with the day-to-day and week-to-week ongoing responsibilities. For example, control-monitoring technology is changing all the time. What we can do now compared to what we could do five years ago is completely different. It’s interesting and mind-boggling to keep up with. We are always working on new energy-conservation strategies, ranging from variable-frequency drives to more efficient lighting systems, for instance. There are a lot of different ways to save energy. We have to weigh the differences and choose the ones that have the shortest payback time. For example, we have a five-year plan in place. However, this plan continues to evolve. We have a few thousand motors on campus (running various systems) and have already installed more than 350 variable-frequency drives since the early 1990s. There are many remaining opportunities for increased energy savings on campus. We have three projects with 30 more variable-frequency drives in progress this year. We’ll design the projects to develop drawings and schematics, and our crafts will install them. This has worked very well on recent projects.

With this variety of duties, do you have a team to work with?

Yes, everyone at O&M. Our craftspeople are excellent. They are some of the best in the area. I enjoyed working directly with them during my design assignments. This allowed me to develop a good rapport. Although I now have less direct involvement, I still view it as a real privilege to work with these people. – Nancy Koeneman

Science Coalition goes online

The Science Coalition, an alliance of 413 organizations, institutions and individuals, dedicated to sustaining the federal government’s commitment to university-based science research, will begin operating its Web site Oct. 7. That night, from 9 to 11 p.m., there will be an online “chat” on the exploration of Mars. Tom Economu of the University of Chicago and Peter Smith of the University of Arizona will participate. Economu invented the Alpha Proton X-ray, which measures the elements that make up rocks, and Smith is a public investigator and inventor of the images on the Mars Pathfinder.

The Web site, at www.sciencecoalition.org, is now featuring the UI. The site includes information about research at member universities, trends in research, chat rooms and a bulletin board, an index of member universities and a library of research. It also includes information about who to contact in Washington, D.C., to help lobby for continued support of research.

Rick Schoell, director of federal relations at the UI’s office of government relations, said UI faculty members can help the coalition’s effort to encourage federal support for university research in a variety of ways.

“The UI gets $200 million in federal support for research and development,” Schoell said. “What’s best to do? Write a letter? Go to Washington? Sure, but we would be better served to find ways to publicize breakthroughs that have occurred with our best and brightest.” The UI and other members of the coalition have spent time on Capitol Hill doing demonstrations of what has come out of research at universities. Members of the house and senate have been able to sit down and get hands-on experience with some of the things that have been developed, he said.

The best thing is giving them an opportunity to get hands-on experience – showing members what we’re doing and how it’s important in the medical, engineering and social science fields,” he said. He also encourages faculty members to take positions on major scientific boards and groups that affect research policies and help to develop national standards.
Campaign Illinois raises more than $880 million

A fter announcing nearly $30 million in private gifts, UI President James J. Stukel capped off the UI Foundation’s annual meeting by revealing the latest milestone in Campaign Illinois, the university’s $1 billion Fund Drive scheduled to end in 1998.

“At the 1995 annual meeting,” Stukel said, “we reported Campaign Illinois had raised $509 million. Last year, we were at $710 million. Tonight I am thrilled to tell you that Campaign Illinois has reached an astronomical $882 million.”

“We’re thrilled with the progress of the campaign and, especially, the surge in endowment that will link today with tomorrow, and next year, and the next century.”

The $881,886,446 total reported by the UI Foundation for the period ending Sept. 15, includes $550 million in campaign pledges, $400 million in annual giving, and $332 million in commitments by donors through their wills, life income plans, bequests and other deferred giving arrangements.

Of the total $882 million subscribed, $596.7 million has been paid-to-date by contributors.

The announcements were part of the three-day meeting conducted by the UI Foundation, attended by more than 600 alumni and friends.

In addition, the foundation announced that it has established the Daniel J. Perrino Endowed Fund, which will provide music scholarships for students in the UI School of Music in the College of Fine and Applied Arts. The establishment of this fund recognizes Perrino as the founder and spirit of the Medicare 7, or 95 sidereal Jazz Band and his steadfast leadership on behalf of the UI Foundation.

Gifts made to the Urbana-Champaign campus:

- A gift commitment totaling $2.7 million from Sheldon and Anita Droby of Highland Park, Ill., and his partners at Chicago-based Paradigm Group, L.L.C., will make possible a permanent Jewish studies program in the College of Liberal Arts and Sciences at Urbana-Champaign and will greatly strengthen the Jewish Studies Program at the university to establish a $3 million endowment to create the Dorrell S. and MaryLou Hoefi

The UI Foundation announced Sept. 19 a $7.2 million gift commitment to the Jewish studies programs at the Urbana-Champaign and Chicago campuses.

The gifts of Sheldon and Anita Droby of Highland Park, Ill., and his partners at Chicago-based Paradigm Group, L.L.C., will make possible a permanent Jewish studies program in the College of Liberal Arts and Sciences at Urbana-Champaign and will greatly strengthen the Jewish Studies Program at UIC, according to UI President James J. Stukel.

The $8 million endowment that creates the Sheldon and Anita Droby Interdisciplinary Program for the Study of Jewish Culture and Society at the university to establish a permanent program.

The gift from Anita and Shelly Droby and the Paradigm Group secures the future of Jewish Studies at the UI in perpetuity,” said Jesse Delia, dean of the College of Liberal Arts and Sciences. “It affords an opportunity to integrate the study of Judaism across the curriculum and to provide for administrative support and library resources as well. Current and future generations of students and faculty members will benefit from their generosity.”

For several years, the Drobyns have been involved in efforts to locate and preserve Judaica hidden during the Holocaust. Their involvement with the R’Aye- nu Society, whose honorary chairman was the late Cardinal Joseph Bernardin, led them to the UI.

The reason we decided to give a major gift to the UI was because we were very interested in the university’s Jewish studies program, said Anita Droby.

“I have in the College of Law the arts and law, as well as graduate assistants in law in the UI’s care. We have a gift in excess of $300,000 from A. Lawrence Buechel of Evanston, Ill., will establish the Donald and Lila Gardner Professorship in the University Library, the largest such gift in the library’s history.

A gift of nearly $500,000 from Hobart G. and Elizabeth H. Nearing of Barrington, Ill., will establish the Donald and Lila Gardner Professorship in the department of electrical and computer engineering.

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A gift in-kind valued at nearly $600,000 was received from the Illinois Land Improvement Contractors Association, whose members volunteered 72 workdays of their labor to dig three ponds that will serve as the centerpieces for the UI Arboretum, a 160-acre site on the Urbana campus. The ponds were created in conjunction with the construction of Japan House, which will house the UI’s Japanese arts and culture program.

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Cowritten by 17 UI history professors

Book offers perspective on the 20th century

By Andrea Lynn

What would the photo album of the last 100 years look like? It’s hard to imagine, but a group of historians has prepared just that. “Imagining the Twentieth Century” was just published, and already it’s being hailed as an ingenious way to tell the century’s story.

The scholars’ snapshot history of the century – 120 photographs and more than 70 short essays – is the labor of love of 17 history professors at the UI. Before beginning the book, the professors conducted a yearlong study of the century the hard way – as students in their own grueling seminar; then they distilled their findings into a course that they are team-teaching every year to 2000. The book, published by the UI Press, was the frosting on the cake, say Charles Stewart and Peter Fritzsche, both UI professors of history and co-editors of “Imagining.”

Still, says Stewart, the task was even more challenging than it first appeared to be. Not only did the team have to agree on photographs and issues that spoke for the century, and work closely together over the course of two years, but they also had to speak to a new audience. “The big question,” Stewart said, “was could we convey the same passion we felt for history, and the same analysis, to the general reader? Was there a way for the academy to meet the town?”

The historians, representing some 14 fields of history, believe they have managed to come to town, although they concede that because they chose an autobiographical approach to analyze the century, their product is highly subjective. In fact, when all was said and done, the professors – rather uncharacteristically for them – embraced the personal experience in history as often as the standard watershed event. Thus, images of Nazism, the atomic bomb and the disintegration of the Soviet Union appear next to images of “slower-moving changes in private life, in sexuality, in family structures, and in our increasing ability to manipulate nature and technology,” the editors write. The short, thoughtful and often imaginative essays cover a range of issues: individualism, mass death, the Barbie doll, abundance, the pill, TV, plastics, refugees, Kung Fu films, Communism and aging.

While the book makes no pretense of being a representative history of the 20th century, its photos “illuminate the odd passages, side doors and cavernous attics of our collective memories,” and its essays “give voice to the contradictory exclamations that have marked our times,” the editors write.

What is the one thing editor Stewart hopes his readers will take away from the book? “The idea that this is a century that defies categorization,” he said, “and also that we all have our own answers about its meanings.”

Stewart also acknowledged that the century is “qualitatively different” from other centuries. “There is something peculiar about the violence, the speed of change and the demographics of this century that ups the ante as we try to sit back and understand what’s going on.”

Proceeds from the sale of the book will fund a scholarship for history graduate students.
Researchers develop superior method for producing butanol

By Jim Barlow

Butanol producers may return to the corn fields following a dramatic improvement in the fermentation process that is making the corn-based version of the chemical more than 60 percent cheaper to make than with traditional fermentation processes.

With support for ethanol production waning, the production of butanol could become more attractive, says Hans P. Blaschek, a professor of food science at the UI. Butanol is a better fuel extender than ethanol and is used widely in plastics, brake fluids and resins. Blaschek’s corn butanol research has resulted in a provisional patent for the UI and the Illinois Corn Marketing Board.

An overview of the real-world use of the process was described in the June issue of Applied and Environmental Microbiology in an article written by Blaschek, his graduate research assistant Joseph Formanek and UI animal scientist Roderick Mackie.

The paper shows how researchers have raised the final concentration of butanol in corn-stEEP liquor—a toxic, useless waste byproduct of corn wet-milling—from 1 percent to 2 percent, a small change that brings a huge reduction in energy costs required to recover the butanol,” Blaschek said.

“Corn wet-milling leftovers are thrown into a fermentation mix that includes either maltodextrin or glucose, as well as a mutated form of Clostridium beijerinckii, a readily available, spore-forming bacteria found in soil. The 20-liter research showed how the mutated bacterium led to 100 percent more butanol production than that attainable with traditional wild strains of bacteria.

“The end result is exceeding our expectations,” Blaschek said.

“This brings us closer to industrial viability of a process, based on the economics. That’s the bottom line for industry. Companies want to make money, and this process looks like it would be competitive with petrochemical approaches, which have been used since the early 1900s, for butanol production. Before that, fermentation was used even though it was very costly.”

The process, which continues to be tested at the UI Biotechnology Center and is attracting the interest of several U. S. companies, also has been effective in its ability to produce acetone, another solvent, but butanol results have been significantly more dramatic, Blaschek said.

Ten billion pounds of butanol, which sells for about 43 cents per pound, are produced annually worldwide by petrochemical methods. The Illinois Corn Marketing Board projects that such an annual production of butanol made from corn would mean a new market for 136 million bushels of corn.

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A report of honors, awards, and other outstanding achievements of faculty and staff members.

Ronald J. Adrian, professor of theoretical and applied mechanics, has been named the first holder of the Leonid C. and Mary Lou Hoefi Endowed Chair in Engineering. Adrian’s research is helping scientists to better understand the complex phenomena of turbulence. By developing a technique to measure the structure of turbulence, Adrian has enabled researchers to better understand how turbulence works and, ultimately, to control its effects. The technique, called particle image velocimetry is now in use throughout the world for both fundamental research and design applications. He was honored at a ceremony in September at the Beckman Institute.

J. Murray Gibson, professor of physics and materials science, has been invited to speak this fall at a conference at the University of Cambridge to celebrate the “100th Birthday of the Electron.” In addition, Gibson is an invited guest at a dinner in London with the British minister of science and will write an article in commemoration of the electron for this month’s Physics Today.

Kenneth S. Suslick, the William H. and Janet Lycan Professor of Chemistry, was invited to give the 24th W. Heimen Hall Lecture at Bowling Green State University in June. In July, Suslick presented the 1997 Special Public Lecture of the University of Melbourne and was an invited speaker at the International Conference on Bioorganic Chemistry in Yokohama, Japan. In August, he was co-organizer of a NATO Advanced Study Institute on the chemical and physical effects of ultrasound.

Christopher D. Wickens, professor of psychology and in the Institute of Aviation, has been elected a fellow for Applied Experimental and Engineering Psychology by Division 21 of the American Psychological Association.

Three members of the College of Agriculture, Consumer and Environmental Science’s (ACES) department of animal sciences were recognized by the American Society of Animal Science. Keith Kelley, professor of animal sciences and of nutritional sciences, received the Animal Physiology and Endocrinology Award for research excellence in physiology and endocrinology. Doug Parrett, professor of animal sciences, received the Distinguished Teacher Award, which recognizes outstanding teachers of undergraduate courses in animal science. Neal R. Merchen, professor of animal sciences and of nutritional sciences, received the American Feed Industry Association Award in Ruminant Nutrition for research excellence.

The Office of Publications has won several awards for projects developed for various units at the UI. The Council for Advancement and Support of Education (CASE) awarded one silver and two bronze awards. The Silver Award for Visual Design in Print was awarded to Debra Bosy, designer, and Christine Beuoy, project manager, for a Partnership Illinois three-panel display created for the Office of the Chancellor. Two Bronze Awards were given for Individual Alumni Relations Publications (Nancy Loch, designer, and Christine Beuoy, project manager) for a Holiday Donor Appreciation package created for the College of Aces and Individual Special Constituency Relations Projects for the Campus Safety Awareness Campaign created for the Office of the Vice Chancellor for Student Affairs (Nancy Loch, designer, and Don Kojich, project manager). The University and College Designers Association recognized Nancy Loch, designer, and Christine Beuoy, project manager, with the Excellence award for the Holiday Donor Appreciation package. The Ad Club of Champaign-Urbana presented the gold CHAAMP award for the ACES Holiday Donor Appreciation package. The category was Public Relations: Not-For-Profit/Public Sector, Single piece or series of public relations communication pieces, primarily. Nancy Loch was the designer and Christine Beuoy was project manager. The ACES Alumni Newsletter prepared by Nancy Loch, designer, and Patricia McCaskill, project manager and director of the Office of Publications, received a Certificate of Merit from the Premier Print Awards International Printing Competition. The newsletter was submitted by Illinois Graphics, Bloomington, III.

Honors for several members of the department of mechanical and industrial engineering were incorrectly listed in the July issue. A.L. “Tad” Addy, professor and head of the department, was advanced to the fellow grade of membership in the American Society for Engineering Education at their annual meeting in June. Professors Arthur M. Clauing and James E. Peters were advanced to the fellow grade of membership in the American Society of Mechanical Engineers in June and August, respectively.

Deaths

William E. Dalton

William E. Dalton, a former employee of the UI Division of Campus Parking and Transportation, died Sept. 17 at Carle Foundation Hospital, Urbana. He was 63.

He was employed by the UI for 22 years.

Surviving are his wife, Barbara; two sons; three daughters; eight grandchildren; two great-grandchildren; a brother; and five sisters.

Memorials may be made to the Lodge Church of God or an organization of the donor’s choice.

James Johnson

James “Jim” Johnson, former UI Police Department lieutenant, died Sept. 9 at Viewtrop Hospice House, Clearwater, Fla. He was 74.

Johnson served in the U.S. Army during World War II and with the Army Reserves for 40 years. He was a member of the Veterans of Foreign Wars and the Fraternal Order of Police.

He retired as a lieutenant with the UI Police Department after 27 years of employment. Johnson then worked as a correctional officer for the Pinellas County (Fla.) sheriff’s department for 13 years.

Surviving are his wife, Nancy; four sons; two daughters; 14 grandchildren; and one great-grandchild.
New program will train personnel who respond to airplane crashes

B y S h a n n o n V i c l e

Some firefighters, police officers and emergency medical technicians in Illinois will be better prepared to save lives if they are called to the scene of an airplane crash, thanks to a new UI program funded with a Partnership Illinois seed grant.

William Geibel, a specialist in aircraft structures, systems and maintenance at the UI Institute of Aviation, has been awarded $15,000 by the UI Partnership Illinois Council to launch a program that will provide emergency personnel in the state with education and training for responding to aircraft accidents.

Two UI units, the Institute of Aviation and the Fire Service Institute, will work together to present the Aircraft Rescue and Firefighting Awareness and Certification Program, which is designed to teach participants about the unique conditions and hazards associated with aircraft crashes. The program will be taught by four UI experts: Jim Dotson, a staff member at the Fire Service Institute and a firefighter for the Urbana Fire Department; Tom Reese, a firefighter for the Willard Airport Fire Department; John Smith, fire marshal for the Willard Airport Fire Department; and Geibel. Together, they have more than 100 years of experience in the fire service.

Along with the UI instructors, the program will feature guest lecturers, including representatives from the Federal Aviation Administration, National Transportation Safety Board and the Air Force. The first session will be held during spring break 1998. The 40-hour program, to be held at the Institute of Aviation’s crash-rescue facility at Willard Airport, will consist of both classroom and field training.

During field training, participants will learn about common types of airplanes and operating systems, and will practice such techniques as cutting into a fuselage. In the classroom, Geibel and his instructional team will present trainees with basic information about aircraft construction, systems, engineering, maintenance and personnel safety protocol. In addition, information will be presented on aircraft accident command and control systems, air port operations, and military aircraft equipment.

The Institute of Aviation has been conducting aircraft rescue and firefighting training since 1990 for communities surrounding Urbana-Champaign. The institute offers 12 hours of aircraft rescue training to firefighters attending the UI Fire Service Institute’s annual Fire College, a four-day training program for firefighters across the state.

The new program broadens the scope of earlier offerings to include several agencies, rather than fire departments alone. Although the program is aimed primarily at emergency rescue personnel, other who respond to aircraft accidents, such as journalists and representatives from the coroner’s office, also will be invited to attend.

The first year’s program will be limited to 30 students. Participants will be selected by lottery to attend the program at no charge.

In the future, the organizers plan to charge tuition to participants, so that the program can be financially self-supporting.

To supplement the Partnership Illinois grant, program organizers hope to recruit corporate sponsors who can provide additional financial support and help organizers gain access to airplanes for use in the field-training segment of the program.

For more information about the program, contact Geibel at 244-8602.

Partnership Illinois, a UI initiative announced in August 1996, was created to help coordinate public service and outreach efforts at the university, increase the impact of the university’s outreach programs and create opportunities to serve the state.

The seed-grant program, part of the Partnership Illinois initiative, was established to encourage UI faculty members to develop outreach programs that address current and developing needs in the state.
Postdoctoral fellowship announced

The British Marshall Commission has announced a new postdoctoral fellowship program to be used at any United Kingdom university or research institute. Candidates for the Marshall Sherfield Fellowships must be U.S. citizens and hold a Ph.D. in a science, technology or engineering subject. There is no age limit. Candidates will be expected to pursue high-level research during their fellowship. Candidates should demonstrate intellectual distinction, strong motivation, an outward-looking disposition, good communication skills and the potential to promote British-American understanding.

The fellowships, which will begin April 1, will offer up to 20,000 pounds each for up to one year of research. Applications may be obtained from Julia Goldberg, director of Scholarships for International Study, 306 International Studies Building, or call 224-0254 or e-mail julag@uiuc.edu. The deadline is Oct. 14.

WILL-FM features 'Jazz Live' Oct. 4

Big bands, Latin combos, Dixieland and avant-garde jazz are all represented in "Jazz Live," airing Saturdays at 8 p.m. on WILL-FM (90.9) beginning Oct. 4. The program features local musicians playing in area clubs. J.Q. headlines the first show of the program's seventh season, with the Jeff Helgesen Quintet (Oct. 11), Confluence (Oct. 18) and Kevin Hart Latin Jazz Quintet (Oct. 25) finishing out the month.

Paul Wiercze, "Jazz Live" producer, says his goal is to represent the various styles being played in Central Illinois. "So many diverse styles and talented artists are represented in the area," Wiercze said. "The variety that we play on Jazz Live reflects what's going on in jazz today."

Other groups featured this season include the soul jazz band Marwana, the hard bop quintet "U," the Timadden Group, and the Ron Bridgewater Trio. In January, "Jazz Live" features UI big bands and combos in a month-long celebration of the UI School of Music.

Mick Woolf continues as host this season, bringing listeners interviews with band members that provide insight into their music. Jazz continues all night long on Saturdays on WILL-FM, with "The Jazz Corner" at 9 p.m. and a new overnight program, "Jazz with Bob Parlocha," from midnight to 6 a.m.

Second Sunday Concert features trio WILL-FM (90.9) features a trio at a Second Sunday Concert at 2 p.m. Oct. 12 at the Krannert Art Museum and Kinkead Pavilion. The free concert also will be broadcast live on WILL-FM.

Violinist Kathryn Ryan of Charleston, cellist Sylvia Liu of Champaign and pianist Debra Sutter of Urbana will perform masterworks by Schumann, Mozart and César Franck. The performance begins at 3 p.m. at the Armory Auditorium on the Carle Foundation campus. For information, call 217-398-1164.

Enroll in disability plan through Nov. 7

A second open enrollment will be held Oct. 15 through Nov. 7 for employees to enroll in the supplemental long-term disability plan written by Fortis Benefits and endorsed by the State Universities Retirement System. The plan, designed to supplement SURS disability benefits, is available to employees who are disabled. Benefits include:

• Benefits paid to age 65 or normal Social Security retirement age
• 24-hour worldwide coverage for injury, illness or pregnancy
• Attractive group rates with convenient payroll deduction
• Partial and total disability coverage, protecting people who are unable to perform his/her own job for 5 years; thereafter, the person must be unable to perform any job
• Guaranteed acceptance during this second-chance open enrollment

All faculty and staff members who are eligible for the university's health plans and who participate in SURS are guaranteed acceptance in the new plan without providing evidence of good health. More information will be sent through campus mail. Coverage would be effective Jan. 1 with the first payroll deduction taken in December.

Employees with questions about the new plan may contact the Benefits Center at 333-3111 or attend any of the following information sessions:

• Oct. 10: 9 a.m., 10:30 a.m. or noon in Illini Room A, Illini Union
• Oct. 20: 10 a.m., noon or 1:30 p.m. in 407 Levis Faculty Center
• Oct. 21: 9 a.m., 10:30 a.m. or noon in 101 Armory Building.

Benefits/Health Information Fair

The Benefits Center is sponsoring a Benefits and Health Information Fair for all UI faculty and staff members from 7:30 to 8 p.m. Oct. 9 in Illini Rooms A, B and C in the Illini Union. Representatives from the university benefit plans will provide information to participants on the university’s health, dental, vision and retirement plans. In addition, participants can have their cholesterol or blood pressure checked, get a health-risk assessment, body-fat analysis, nutrition check-up, fitness assessment or enjoy a relaxation massage and complimentary refreshments.

All attending also are eligible for door prizes. WHMS (97.5) will be broadcasting live from 9 to 11 a.m. Employees may be released from work to attend the fair for up to one hour without loss of pay, department approval and submitting a half day’s notice prior to the event for approval. The approved time with pay may be combined with the lunch period if requested by the employee.
CD-ROM speaks students’ language on alcohol use

By Craig Chamberlain

College students rarely die from an alcohol overdose, as happened in Louisiana Aug. 26. But alcohol abuse on campus still adversely affects many lives, and new approaches have proven effective in changing that, says William Riley, dean of students at the UI.

"Alcohol 101," an interactive CD-ROM developed at the UI, could be different. Riley said: "We’re excited about this. We think this is something that will have an impact."

Testing that impact begins this semester, as students at the UI and about 40 other campuses will be asked to try the new software. Impact data from these campuses will then be used to further refine the product and determine the best ways to use it.

Making extensive use of interactive and multimedia capabilities, Alcohol 101 does not lecture, says Janet Reis, a UI professor of community health and the researcher behind the CD-ROM’s development. Students in focus groups made it clear that they "dread the lecture" on alcohol, she said.

Instead, the software takes the student to a virtual party, where he or she can learn some things about drinking and the college social scene they might otherwise have to learn the hard way. Using information about their height, weight, gender and drinking patterns — and even about what the student has had to eat on this imaginary evening — the software caters the experience to the user. In visiting the party’s bar to order drinks, for instance, users get an estimate of the level of alcohol in their blood and a description of its effects. Other link show the impact it would have on their driving.

Perhaps the most important interactive feature, however, is the one that allows the user to play out several scenarios at the party, using characters played by actors on video. In each scenario, the user makes choices that determine the direction of the story and its outcome. The outcomes range from positive to tragic, Riley said. One, for instance, involving Allison, can lead to a sexual assault.

The scenarios have an impact on students because the students know the stories are not invented, Riley said. "These are real situations that happened to real students on this campus, and the students who use the CD know that. They know that these things happen here and elsewhere."

"Reis’ work on Alcohol 101 grew out of work over eight years to develop various interactive software designed to deliver personalized health information to target audiences. In each case, the language and presentation are catered to the target audience.

The project began about five years ago as a collaborative effort, led by Reis, that included campus staff members from student affairs, education technologies and health education units, as well as students. Much of the development, along with technical enhancements, production and distribution, has been supported with funds from the Century Council, a national anti-alcohol abuse organization funded by the nation’s large distillers.

Multimedia capabilities, Alcohol 101 does on the CD-ROM use to play music, show videos, create movies and the development, along with technical enhancements, production and distribution, has been supported with funds from the Century Council, a national anti-alcohol abuse organization funded by the nation’s large distillers.

Drobny/Paradigm gift

(Continued from Page 4)

States from Poland before World War II, but some relatives died in the Holocaust. Anna’s parents also came to the United States from Europe, after first traveling to Cuba. Their new endowed chair as well as the new professorships and funds will be named after the Drobny’s own family members and Paradigm partners. The UI was a logical choice to carry on the work of Cardinal Bernardin, Sheldon Drobny said. From 1963 to 1965, he attended the UI campus at Navy Pier before transferring to Roosevelt University. He and Anna always impressed with the UI’s interdisciplinary approach and with its national reputation within higher education.

To establish the campus programs, the Drobny’s and Paradigm Group also are providing $1.2 million over the next four years to initiate the academic-position search process, enabling the campus to make appointments by fall 1998.

"It’s very important that we do this somewhere as a start, as a model," Sheldon Drobny noted. "If we can continue the process, we can take away the insecurity and depravity going on in the world. Certainly this is a good start."

briefs

(continued from page 3)

is a physicist at Princeton University, and colleague Russell Hulse received the 1993 Nobel Prize in physics for their 1974 discovery of the first binary pulsar and for proving that its orbit decays at exactly the rate predicted by Einstein’s theory of relativity. Because of their extreme masses, gravitational fields and rotational speeds, binary pulsars have become important as deep-space proving grounds for relativity theory.

Each year, the Astronomy Distinguished Lectureship will bring a noted astronomer to campus to highlight some of the latest developments in astronomy, Crutcher said. In addition to giving a public lecture, the invited speaker also will give a technical colloquium and meet informally with faculty members and students.

 Forums to discuss Library Gateway

The Library Systems Office invites faculty and staff members to participate in focus group forums to discuss changes and enhance development of the Library Gateway. The Gateway, which is under development, is a Web-based electronic guide to library resources available on various libraries’ public workstations. The forums will be held during October and November. Refreshments will be provided. Space is limited; call 244-4688 or e-mail libsys@uiuc.edu to make a reservation.

DEIL celebrates 50 years of service

The Division of English as an International Language (DEIL) is celebrating 50 years of service to the UI and to its international students. The celebration begins at 2 p.m. Oct. 17 and continues through Oct. 18. DEIL, which began as a part of the English department, initially offered special language courses. Today, DEIL is a flourishing, multidisciplinary unit, whose scope encompasses English as a second language service courses, the Intensive English Institute, a state-of-the-art computer facility, an annual conference, publications and more. For more information, visit 3070 Foreign Languages Building, call 333-1506 or e-mail deil@uiuc.edu.

Courses on Web publishing offered

The Division of Extramural Programs is offering noncredit computer courses as part of its Publishing on the World Wide Web series. The courses being offered:

Module 101: "Introduction to Web Publishing," Wednesdays from 6 to 8 p.m., Nov. 5 through Dec. 3. Note: class meets Tuesday, Nov. 25 the week of Thanksgiving. (five sessions/$75).

Module 102: "Introduction to Front Page," Mondays from 4 to 6 p.m., Oct. 20 through Nov. 10. (four sessions/$60).

Module 103: "Introduction to Forms and Pearl Scripts," Tuesdays from 6 to 8 p.m., Nov. 3 through Dec. 8. (six sessions/$80).

Module 105: "Web Design," Mondays from 4 to 6 p.m., Oct. 20 through Nov. 10. (four sessions/$60).

Module 106: "Web Design," Mondays from 4 to 6 p.m., Nov. 4 and 11. (two sessions/$45).

To register or to obtain more information, call the Office of Statewide Programming, 333-6305.

Coble lecture is Oct. 6, 7 and 8

Freeman J. Dyson of the Institute for Advanced Study in Princeton, N.J., will deliver the 27th annual Arthur B. Coble Memorial Lecture Series on Oct. 6, 7 and 8. The lectures will be at 4 p.m. each day in the Tryon Festival Theater, Krannert Center for the Performing Arts. The series:

Oct. 6: "War and Peace"

Oct. 7: "The Sky and the Genome"

Oct. 8: "Does the Electron Charge Stay Constant as the Universe Evolves?"

The lecture series honors the memory of Coble, professor of mathematics at UI from 1918 to 1947. Coble’s family established a fund to endow a series of public lectures on mathematics to be delivered by outstanding mathematicians. A reception will be held in the Krannert Lobby following the lecture on Oct. 7.

Cinema conference is Oct. 9-12

Film experts from around the world will be on location at the UI and a local movie theater for a conference on the cinema of Hong Kong and a film festival of movies made in Hong Kong.

The conference, “Hong Kong Cinema: History, Arts, Identity, 1900-1997,” will be held from 10 a.m. to 5:15 p.m. Oct. 11 in Room 407, Illini Union. The film festival, which runs Oct. 9 to 12, will be held at the Savoy 14 Theater, 223 Burwash Ave., Savoy, and in Room 66, UI Library.

According to Poshek Fu, co-organizer of the events and film expert on Hong Kong cinema, the conference will be the first of its kind in the U.S.

The one-hour program explores an indigenous culture’s evolution over the last 100 years. After the documentary, “Pillars of the World,” the one-hour program explores an indigenous culture’s evolution over the last 100 years. After the documentary, "Love on the Roof" (1993), directed by Tony Au.

Woo. 9 p.m. Oct. 9, 11:30 p.m. Oct. 1, 10 and 9 p.m. Oct. 12. "A Better Tomorrow II" (1987), directed by Joe Woon. 9 p.m. Oct. 9, 11:30 p.m. Oct. 11 and 7 p.m. Oct. 12. The films are free to UI students, faculty and staff; $3 for others.

At the UI Library: "Love on the Roof" (1993), directed by Tony Au.

7:30 p.m. Oct. 10. Free to the general public.

The conference is free and open to the public. For more information call Poshek Fu at 244-2089.

WILL-TV and museums host screenings

WILL (Channel 12) is joining with local museums in Champaign-Urbana, Bloomington and Springfield to host screenings of WILL’s newest production, “Tarahumara: Pillars of the World.”

The one-hour program explores an indigenous culture’s evolution over the last 100 years. After the documentary, the program’s producers, WILL-TV’s Jack Kelly and Eric Hostetter, UI professor of art and design, will be available to answer questions.

The program premieres on WILL-TV Channel 12 at 7 p.m. Oct. 22. Local screenings:

• 6:30 p.m. Oct. 8 at Krannert Art Museum and Kinkead Pavilion

• 2:30 p.m. Oct. 12 at the World Heritage Museum

• 7 p.m. Oct. 14 at the McLean County Arts Center, Bloomington

• 7 p.m. Oct. 15 at the Springfield Lincoln Library, Springfield

ILIR 50th anniversary program

The Institute of Labor and Industrial Relations will kick off its 50th anniversary celebration Oct. 3 with panel discussions on "The Employment Relationship: Past, Present and Future." Four former ILIR directors — Robert Reis, Martin Wagner, Melvin Rothbaum and Walter Franke — will speak at the first session, beginning at 2 p.m. Speakers at panel sessions between 3:15 and 5:15 p.m. include ILIR alumni R. Wayne Anderson, senior vice president of Ameco Corp.; George Polak, president of Fredrick W. Cook & Co.; Thomas Balanoff, president of Local 73, Service Employees International Union; Carleen McElroy Thompson, director of compliance at U.S. West, and Ed Hitz, of the U.S. Department of Labor.

The panel discussions are open to the public and will be held in 35 Lurie Building.

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Page 9
2 Thursday
“Lessons from the Life of a Champion/Denise Rapier.”
8:30 p.m. Krannert Auditorium.

3 Thursday
“Tertullian’s War and Peace.”
7:30 p.m. Room 122, Center for the Study of Religion and Society.

4 Thursday
“Concert for Environmental Action.”
7:30 p.m. Foellinger Great Hall.

5 Thursday
“Renaissance Europe’s favorite son, Desiderius Erasmus.”
8 p.m. Foellinger Great Hall.

6 Friday
“The Life and Times of the Married as Told by Rembrandt.”
8 p.m. Krannert Auditorium.

7 Friday
“Selling Out: The Gay and Lesbian Movement Goes to the Corporate World.”
7:30 p.m. Room 122, Center for the Study of Religion and Society.

8 Friday
“Freeman J. Dyson, Institute for Advanced Study.”
5:30 p.m. Beckman Institute Auditorium.

9 Saturday
“Palm Tree in China.”
7:30 p.m. Third floor, Levis Faculty Center.

10 Sunday
“Gandhi: An End-of-the-Century Perspective.”
7:30 p.m. Third floor, Levis Faculty Center.

11 Monday
“School Vouchers: The Role of Choice in Educational Reform.”
8:30 a.m. Room 130, Champaign.-Urbana Regional Planning Commission.

12 Monday
“The Importance of Biomass in the 21st Century.”
8:30 a.m. 141 Loomis Lab.

13 Monday
“Protein Folding on Membranes: Mechanism of Protein Formation.”
8:30 a.m. 141 Loomis Lab.

14 Monday
“Introduction to Standards in the National Lampoon’s Dictionary.”
8:30 a.m. 141 Loomis Lab.

15 Monday
“Lincolnshire Posy.”
8:30 a.m. 141 Loomis Lab.

16 Monday
“American History and the Political Economy of the Civil War.”
8:30 a.m. 141 Loomis Lab.

17 Monday
“Dionysos in Greek Art.”
8:30 a.m. 141 Loomis Lab.

18 Monday
“The Invariance of Latzer Hall, University of Illinois.”
8:30 a.m. 141 Loomis Lab.

19 Monday
“The Science of the Third Floor.”
8:30 a.m. 141 Loomis Lab.

20 Monday
“The Role of Speech in the Evolution of Language.”
8:30 a.m. 141 Loomis Lab.

21 Monday
8:30 a.m. 141 Loomis Lab.

22 Monday
“The Analysis of Speech in the Development of Local News Stations.”
8:30 a.m. 141 Loomis Lab.

23 Monday
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24 Monday
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8:30 a.m. 141 Loomis Lab.

25 Monday
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26 Monday
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27 Monday
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28 Monday
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8:30 a.m. 141 Loomis Lab.

29 Monday
8:30 a.m. 141 Loomis Lab.

30 Monday
“The Analysis of Speech in the Development of Local News Stations.”
8:30 a.m. 141 Loomis Lab.
Central Illinois. Richard Sgouros. 8 p.m. Studio Theater, Krannert Center. This Québécos musician offers songs that are personal, passionate and often political. Admission charge.

12 Sunday Second Sunday Concert. 2 p.m. Krannert Art Museum. Performers are the Ryan-Liu-Sutter Trio: Kathryn Ryan, violin, Sylvia Liu, cello; and Debra Sutter, piano. Broadcast live on station WILL-FM (90.9).

Makoto Nakura, marimba. 3 p.m. Fielding Great Hall, Krannert Center. The first marimba to win the Young Concert Artists Auditions, Nakura will perform works by Clair Omar Musser, Yoshio Hachimura, and Philip Armstrong, along with his own Fantasia on “The Last Rose of Summer.” Ticket price includes light refreshments. Admission charge. Sunday Salon.

14 Tuesday Voice Division Recital. 11 a.m. Recital Hall, Smith Hall. Interval: Lively Arts and Music Trio. Noon. Lobby Krannert Center. Three Chinese-born musicians perform music of their country. Intermezzo begins serving lunch at 11 a.m.

Faculty Recital. Robert Haken, violin and viola, and Michael Cameron, double bass. 8 p.m. Recital Hall, Smith Hall. Program will include works of Reinhold Gliere, Orlando di Lassus, and Glinka. Admission charge.

15 Wednesday Faculty Recital: Sungwo Romero, piano. 8 p.m. Fielding Great Hall, Krannert Center. Newly-appointed to the UI School of Music piano faculty, Romero will perform his first concert at the Krannert Center.

16 Thursday Junior Recital. Sanghyuk Chung, piano. 11 a.m. Recital Hall, Smith Hall.

18 Sunday Days at Twelve. 12-20-12:50 p.m. Beekman Theatre. Performers include students, directors and ensembles from both the graduate and undergraduate divisions of the School of Music. Beekman Institute and Music Salvatore Martirano Memorial Composition Award Concert. 8 p.m. Foellinger Great Hall, Krannert Center. Composer Jason Eckardt was selected by international competition as the first-ever recipient of this award in memory of former UI music professor Salvatore Martirano. Pianist Marilyn Yoon will perform Eckardt’s winning composition “Echoes: White Violin,” along with his own Fantasia on “The Last Rose of Summer.” Ticket price includes light refreshments. Admission charge. Tuesday Salon.

22 Tuesday Piano Recital. Elliot Chasanov, alto and tenor trombone. 8 p.m. Fielding Great Hall, Krannert Center. Featuring the premiere of Eric Ewazen’s new composition for trombone along with Don White’s Sonata for Trombone and Piano. Admission charge.

23 Saturday Senior Recital. Melissa Blankenship, clarinet. 11 a.m. Memorial Room, Smith Hall. Master of Music Recital. Sandy Soll, French horn. 8 p.m. Smith Hall, Fielding Great Hall. Sunday Piano. 8 p.m. Smith Hall, Fielding Great Hall.


25 Thursday Studeidance I. 2 p.m. Studio Theater, Krannert Center. Plans for this chamber concert of works by dance faculty and friends include two works by Professor Emret Eyuboglu and Bessie Award winner Beverly Blossom; her new solo piece “Dead Monkey,” and “Black Travelers,” performed by faculty member Cynthia Piskin-Doyle. Admission charge. Illinois Dance Theater.


31 Friday Studeidance I. 7 and 9 p.m. Studio Theater, Krannert Center. Admission charge. Illinois Dance Theater.

4 Saturday Football. 1 p.m. (Tentative) Memorial Stadium. UI vs. Penn State. Admission charge.

6 Saturday Volleyball. UI vs. Northwestern University. 7 p.m. Huff Hall. Admission charge.

9 Saturday Volleyball. UI vs. University of Michigan. 7 p.m. Huff Hall. Admission charge.

16 Thursday Volleyball. UI vs. Purdue University. Admission charge.

Japanese marimbitst Makoto Nakura performs Oct. 12 at 3 p.m. in the Foellinger Great Hall at the Krannert Center for the Performing Arts. The season’s first Sunday Salon recital will include works by Clair Omar Musser, Yoshio Hachimura, Kevin Putz, J.S. Bach, Toshi Ichiyanagi and Philip Armstrong, along with Nakura’s Fantasia on “The Last Rose of Summer.” In January 1994, Nakura became the first marimbitst to win a place on the Young Concert Artists roster. He has had great success with performances and educational activities throughout the United States and in London.

2 Monday Football. 1 p.m. Memorial Stadium. UI vs. Elon University. Admission charge.

4 Wednesday Volleyball. UI vs. Ohio State University. 7 p.m. Huff Hall. Admission charge.

18 Thursday Volleyball. UI vs. Ohio State University. 7 p.m. Huff Hall. Admission charge.

20 Friday Volleyball. UI vs. Minnesota. 7 p.m. Huff Hall. Admission charge.

22 Saturday Volleyball. UI vs. Minnesota. 7 p.m. Huff Hall. Admission charge.
Through Oct. 10.

Illini Union Bookstore
floor, Illini Union Bookstore.

a.m. Author's corner, second
floor, Academic Services.

Continues through Saturday.

Foreign Languages Building.

make reservations, call 367-
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“Beyond the Himalayas”
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Decorative Arts”
“From Alexander to
Augustus”
“Treasures of the
Moore Collection of
Paintings”
“From the John G.
Muller Collection”
“Arctic Idioms”
“Rainer Gross: Fingertip-
Tingling”
“Great Books of Science
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“Plays with People”
“Harvesting the Past”
“Rainer Gross: Finger-
tip-Tingling”
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“Harvesting the Past”
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Augustus”
“Treasures of the
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“Rainer Gross: Fingertip-
Tingling”
“Great Books of Science
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“Treasures of友情的
Library

Promenade gift shop: 10 a.m.
in 6 p.m. workdays.
Library Tours
Scheduled audiotapes of
main and undergraduate
libraries available at
the Information Desk;
second floor of the
main library or the
Media Center of the
undergraduate library.

Meat Saladroom
102 Meat Science Labs.
1-5:30 p.m. Monday, Tuesday,
Thursday-Friday, 8 a.m.-1 p.m.
Saturday. Call for hours.

Rainer Gross: Fingertip-
Tingling

Pease Cafe and Bookstore
8:30 a.m.-4:30 p.m. Monday,
Thursday, Sunday, and 8:30 a.m.-
7:30 p.m. Tuesday, Wednesday
8:30 a.m.-4:30 p.m. Monday,
Thursday, and 8:30 a.m.-7:30 p.m.
Tuesday. 2-4:30 p.m. Sunday.
Kraeegg Art Museum and
Kinkade Pavilion.

Robert Allerton Park
Open 8 a.m. to dusk daily.
“Allerton Legacy” exhibit at
Visitors Center, 8 a.m.-5 p.m.
daily; 244-1035. Garden tours:
call 333-2127.

World Heritage Museum
Heritage Bazaar gift shop:
9 a.m.-5:30 p.m. Monday-
Friday, 8-3 p.m. Sunday.
Tours: First and third
Sundays at 2:15 p.m. and
by appointment for groups of 10 or
more.

organizations

Classified Employees
Association
31, 45-47 a.m.
first Friday
exhibits

she has
to share,
ning that time,
he does
"I sold
them all.
I'm not a collector, I'm a fixer," he said.
what he has
lected is
knowledge
and documentation
on fixing
most any
type of clock.
He has
years
worth of
journals
and trade
catalogs,
revolution,
and the
history
of various
timepieces.
what he
has collected
is
wealth of
knowledge
and docu-
tation on
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most any
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