Flexible sensors could improve robots’ sense of touch

By James E. Kloeppe1
Newes Bureau Staff Writer

A robot’s sensitivity to touch could be vastly improved by an array of polymer-based tactile sensors that has been combined with a robust signal-processing algorithm to classify surface texture. The work, led by a team of UI researchers, is an essential step in the development of robots and accidents and manipulate objects in unstructured environments.

“We are developing articular tactile sensors that will imitate the functionality and efficiency found in biological structures such as human fingers,” said Chang Liu, professor of electrical and computer engineering at Illinois. “We have shown that simple, low-cost sensor arrays can be used to analyze and identify surface textures.”

Biological sensors provide a wealth of information concerning the shape, hardness, and texture of an object. Robots, which typically possess a limited grip, cannot determine whether an object is hard or soft, or how hard it is squeezing an object.

“One of the major problems in robotics is the handling of delicate objects such as eggs,” said Douglas Jones, a professor of electrical and computer engineering. “The distributed sensing would allow us to design a robot to grab an egg with enough force that it won’t slip, but without so much force that it breaks. One of our goals is to develop an array of sensors that provides robotic systems with a similar sense of tactile feedback.”

The research team consisted of Liu and Jones (who are also researchers at the Beckman Institute for Advanced Science and Technology), and graduate students Hoon Kim and Jonathan Enge. They describe the construction and operation of their tactile system in the May issue of the Journal of Micromechanics and Microengineering, published by the Institute of Physics (http://www.iop.org/IM/MM). The sensors are fabricated from an inexpensive polymer sheet using photolithographic patterning techniques. In the reported work, the researchers created a 4 x 4 array (16) and evaluated its performance.

“Each sensor resembles a little drum head about 200 microns in diameter with a thin ‘backing’ inside the center,” Enged. “On the surface of the drum, we deposit a thin metal strain gauge. The change in strain gauge changes resistance when stretched. Pressure on the sensor is converted into digital data that is sent to a computer and analyzed with a signal-processing algorithm.”

In any detection problem, implementing such a system is a key. “Speed is important, but complex tasks like tactile sensing tend to be very time consuming,” Kim said. “We came up with advanced algorithms that make the process more computationally efficient. Our algorithms can quickly determine which sensors are activated in the array, and whether the object is flat, or shaped like a box or the letter X.”

In future work, the researchers want to improve efficiency by further simplifying the signal-processing algorithm so it can be performed by circuitry mounted on the same substrate as the sensor. They also want to build larger arrays with distributed sensors, and develop more effective ways to further simplify the sensor system.

Such improvements could expand the functionality of robots in highly dynamic environments. “Our ultimate goal is to allow robots to operate in unstructured environments,” Liu said. “To build more trust between humans and robots, we must make reliable sensory systems that can analyze their surroundings quickly and accurately. Our work is a step toward making trustworthy sensors that give robots the power to really help people.”

The work was funded by the National Science Foundation and the U.S. Air Force, and the Defense Advanced Research Projects Agency.

Summer camps offer academics, athletics and music

By Sharilys Forrest
Assistant Editor

June marks the beginning of summer vacation season, and the playing fields, classrooms and rehearsal halls on the Urbana campus will be abuzz with activity this summer as high- and middle-school students eager to improve their skills in music, athletics and academics.

About 4,000 children will attend sports camps offered through the Division of Intercollegiate Athletics. DIA offers more than 50 camps this summer for individuals and teams, including cheerleading, gymnastics, football, volleyball, golf, tennis, track and field and wrestling. Many of the camps have waiting lists including boys’ basketball (which filled quickly after coach Bruce Weber led the Fighting Illini men’s team to the NCAA finals this spring).

About 1,200 budding musicians and thespians will grace Urbana’s stages in rehearsal halls as participants in Illinois Summer Music Camps. Now in its 57th year, ISYM hosts 16 camps in musical theater and musicianship, including choral performance, chamber performance and jazz. The camps, many of whom receive partial or full scholarships from their schools, spend their time in rehearsals, private lessons and classes, and give a concert for parents on the final day of camp. David Allen, the coordinator of outreach and public engagement for the School of Music, said that an ISYM camper in junior high school during the 1980s said that today’s campers “want more than a rehearsal that leads to a concert at the end of the week, and for that reason, we have instituted classes in music technology, piano lab, conducting and composition.”

“My goal is to present the students with something that opens their eyes to some new aspects of music.” —David Allen

ISYM attracts quite a few out-of-state participants and some international campers. In 2005, an ISYM camper in junior high school from Milwaukee and another from Hol-land.

In addition to athletics and music, there are also several camps for kids who want to do some serious brain building and career exploration while having fun. The Girls’ Adventures in Mathematics, Science and Engineering, sponsored by the College of Engineering and the Women in Engineering Program, encourages young women to pursue careers in technical fields through two weeklong camps. In the structures camp, seventh- and eighth-grade girls are exposed to basic project-related principles of physics, materials, civil engineering, aerodynamics and chemistry, which they put to the test by constructing projects built to withstand natural forces and also to meet detailed design and construction specifications. In the computer science camp, eighth- and ninth-grade girls work with computer visualization and modeling programs.

New this year is a Discover Engineering camp that gives high-school sophomores interested in math and science. Campers are exposed to the various disciplines in engineering and work on projects from different engineering fields. The camp is designed to help students considering careers in engineering decide if engineering is right for them and, if so, which discipline most interests them.

The College of Engineering also sponsors an Exploring Your Options camp, a weeklong program that exposes high-school juniors and seniors to the field of engineering and includes a LEGO Mindstorm Competition that involves campers building robots to navigate an obstacle course. A wet-and-wild icebreaker on the first night of camp that also is a highlight for many campers is the “battle of the boats” competition in which and college students build cardboard boats and race them across a swimming pool, said Mary Weaver, coordinator of the Worldwide Youth in Science and Engineering program. Young people who have stars in their eyes can learn about aerospace engineering and aviation at a weeklong camp sponsored by the department of aerospace engineering and NASA’s Illinois Space Grant Consortium. In classroom sessions, labs and demonstrations, campers will build model rockets and gliders and go on field trips to a local remote-control air-plane field and the Institute of Aviation at Willard Airport in Savoy.

About 180 children – pre-kindergarten through eighth grade – will attend day camps at Robert Allerton Park and Conference Center, Monticello. A local art teacher will instruct young artists in using various media, including sculpture and drawing, during the Allerton Arts Camps; kids in the Allerton Explorers camp will learn about animals, birds and astronomy.

According to preliminary enrollment figures, the Housing Division expects to provide accommodations for about 3,600 campers this summer, said Kirsten Ruby, the assistant director of housing for marketing. Some camps house participants in privately owned residence halls near campus. In addition to youth, the UIresidence halls will house about 1,400 adults this summer who will come to campus for professional development workshops, institutes and other programs, Ruby said.
On the Job

Barb Robbins

We do resident adviser training for Housing every summer and freshman orientation, so the officers get a chance to meet all the RA's (residential advisors). There are usually around 450 of them. I can't remember all of their names but they remember me from going to activities. I really enjoy Housing, I think it helps that I'm a woman because we do stand out and people remember us.

I also work part-time for the Police Training Institute to help train new police officers throughout the state about domestic violence and sexual assault. I'm either the victim or the facilitator in role-playing scenarios.

What kinds of skills do you need to work with a college population?

You have to have a lot of tolerance and good communication skills. On third shift you must be able to stay focused and have quick decision-making abilities. You also need to have quick thinking skills and keep the team informed, so the officers get a chance to meet all the RAs (resident advisers).

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Each crop of new freshmen creates a totally different campus environment and new challenges for us Housing officers.

What do you enjoy most about your job?

I enjoy working with the students, but I always feel I could be doing more. The most fun part of my job is public speaking. I've done talks in Housing and to the general public – Emergency Medical Technicians, paramedics, police – and I've given presentations to doctors and guidance counselors – about drug and alcohol prevention and education.

I'm on the board of the Illinois Drug Education Alliance, which is a statewide volunteer coalition focused on drug and alcohol prevention and education for kids ages 9 to 13. We're a drug-free group when pills come up that deal with underaged drinking, I write a lot of letters to legislators. I'm working with IDEA, which makes me feel good. When I see kids who are doing well, I feel good.

I really believe that within our community we need to do something about alcohol because it is the root of a lot of problems that our students deal with.

What do you do when you're not working?

Anything outdoors. I just got back from a trip to Florida, where I did some cave diving, I got certified in scuba diving at IMPS three years ago and have done 50 dives. I've gone diving in the Caribbean – the Bahamas and the Turks and Caicos Islands. I went diving in Hawaii earlier this year. Two years ago, I went on a 10-day canoe trip to Canada with Campus Recreation. It was spectacular.

Tell me about your job.

I'm one of three officers assigned to Housing, which probably has the highest volume of calls. It keeps you busy, especially between 2 and 4 a.m. after the bars close and people are all wound up when they get back home. It appears there's a small group of students who never sleep. Mainly the calls at night are about intoxicated people who have passed out, fights, property damage and some domestic incidents between roommates or boyfriends and girlfriends.

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Helping people is police officer Barb Robbins' vocation, whether she is responding to calls in University Housing or strong volunteer work with campus or community organizations. In July, Robbins will celebrate her ninteenth anniversary with the UI Police. During her career she has been honored with the Excellence in Community Policing Award (2001), the Director of Public Safety Recognition Award (2002) and the Tattoo Award, which she earned in 2004 when her quick response saved a shooting in Urbana enabled police to later apprehend a murder suspect.

Robbins earned an associate degree in criminal justice from Parkland College, a bachelor's degree in career occupations from Eastern Illinois University and is studying for a master's degree in education at Illinois with a concentration in training and development.

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**June 2, 2005**

**InsideIllinois**

**PAGE 3**

**Writer Andrei Codrescu donates literary works to UI Library**

by Andrea Lynn
News Bureau Staff Writer

Andrei Codrescu, the prolific poet-novelist-essayist and widely recognized radio celebrity, has given his collection of Romanian books, periodicals, films and other materials to the UI Library.

Although most of the 660 items Codrescu donated are in Romanian, his native tongue, the collection also includes books in English and other languages, including some of the author’s own writings.

The publications are mostly contemporary — written since the fall of dictatorship in Romania in 1989 — and many were produced by small publishing houses. Nearly half of the materials are rare — not documented anywhere else in the United States.

Codrescu’s collection, like his writing, is eclectic. Roughly half consists of poetry, with smaller amounts of fiction and nonfiction. Much of the material consists of literary journals and magazines. There is a smattering of museum catalogs, drama and documentaries, even a political joke book and a cookbook.

Codrescu gave his collection to Illinois because he recognized it as an “institution of strength” in terms of Slavic materials after a visit to the campus in 2004. It is a serendipitous time for such a gift, since Illinois Library has been expanding its focus on Balkan and Southeast European studies, said Miranda Remnek, the head of the UI Slavic and East European Studies.

“precisely in Balkan and Southeast European studies,” said Miranda Remnek, the head of the UI Slavic, and East European Library and coordinator of the Codrescu collection.

While Illinois already owns about one-fourth of the titles in Codrescu’s collection, the new books “add significantly” to Illinois’ materials by prominent modern Romanian novelists, including Norman Manea, Remnek said.

Manea was deported to a Ukrainian internment camp at age 5. His fiction deals with the Holocaust and with daily life in a totalitarian state. The acquisition contains 11 of his books — several in English, including “The Hooligan’s Return” and “On Clowns.”

One of the collections’ most delightful books is “Postcards From America,” written and illustrated by Dan Perjovschi. The book reproduces 200 of the 1,000 vignette “postcards” the Romanian artist made and publicly displayed every day of his 10-week stay in the United States in 1994. He does with his cartoons what Codrescu does in his commentaries: draws attention to the unusual, even absurd, in everyday American life.

Perjovschi inscribed his book to Codrescu with a line drawing of hummock, and he tucked in a two-page letter.

About 40 of Codrescu’s books contain such personal items: inscriptions, notes and letters from the authors to Codrescu, many of them “expressing their engagement and disengagement with contemporary Romanian life,” Remnek said.

According to Remnek, the Codrescu gift is “a very exciting development for the Library, and for several reasons.”

First, the collection is “interesting in its own right,” she said, since it includes many small-press editions by contemporary Romanian poets writing after the fall of communism. “It presents a colorful vignette of the issues currently faced by a range of Romanian intellectuals, and in a time of uncertainty, but also promise,” Remnek said.

The collection also is important because it is “the handiwork of Codrescu, whose celebrity and highly imaginative literary persona are well-known in many circles.”

The writer has extensive contacts with Romanian intellectuals, Remnek said, and promises to draw on them “to help expand the richness of the collection.”

The MacCurdy Distinguished Professor of English at Louisiana State University, Codrescu donated his personal papers and English-language books to LSU’s library, which does not have a specialization in Slavic or Balkan studies.

The UI acquisition ties in with other efforts the Library is making to provide greater support for Balkan studies. These include subscribing to a major East European database and librarian James Pitch assuming an additional role as Librarian for South Slavic Studies.

Housed in the Rare Book and Special Collections Library, the Codrescu Collection was acquired by the Slavic Library, which, with 755,000 volumes and more than 3,900 serial publications, is the largest Slavic and East European collection west of Washington, D.C., and the second or third largest among U.S. universities.

Born in a small town in the Transylvania region of Romania, Codrescu immigrated to the United States in 1966, and became a U.S. citizen in 1981. He has written poetry, fiction, memoirs and travelogues, as well as essays and anthologies. He also wrote and starred in “Road Scholar,” a Peabody Award-winning movie. Codrescu writes commentary and book reviews for many national publications and continues his popular weekly commentaries on NPR, does a commentary for “Nightline” and appears regularly on popular late-night talk shows. ♦
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UI Extension Master Gardeners

Garden Walk will be June 25

The UI Extension Master Gardeners will host the Town and Country Garden Walk in Champaign County from 10 a.m. to 5 p.m. June 25, regardless of weather conditions.

The event, which will take place on Saturday for the first time, will feature residential gardens in rural and urban settings in Tolono and Champaign.

Tickets are available at the UI Extension Office at 801 N. Country Fair Drive, Champaign, and at local garden centers. For more information, contact the UI Extension Office at 217-333-7672 or Laurie Goldwasser at 217-359-4526 or goldwaas@uiuc.edu.

Intensive English Institute

Hosts needed for Japanese students

About 40 Japanese college students are coming to Champaign-Urbana in late July to spend up to a month brushing up on their conversational English.

All of them are hoping to find friendly local hosts to share their American experiences with.

The students will need hosts who can spend time with them getting to know the local community and also provide home stays, including room and board, for two, three or four weeks.

The students are participating in the Intensive English Institute, the UI’s residential language program.

Individuals, families and couples, including “empty-nesters,” are welcome to apply as host families. Home-stay hosts put the students up in their homes and provide meals for them, as well as spend time with them in typical household activities or outings – for example, ball games, movies, picnics, concerts and county fairs. Home-stay hosts either host students for two, three or four weeks.

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UI hosts summer research lab

As they each have summer since 1973, scholars soon will converge on the UI at Urbana-Champaign from all compass points to participate in the annual Summer Research Laboratory on Russia, Eastern Europe and Eurasia.

Perhaps best described as an intellectual summer camp for scholars, the Summer Research Lab is hosted by the UI Russian, East European and Eurasian Center. The lab runs from June 13 through Aug. 5.

The primary draw for many of the faculty members, graduate students and independent scholars who participate each year is the opportunity to conduct advanced research and interact formally and informally with colleagues in a resource-rich setting.

“The Summer Lab provides a unique opportunity for specialists to conduct research with the greatest ease and access to materials and information, and to share their expertise with other scholars and the public,” said REEEC assistant director Lynda Park.

A major attraction for participants, she said, is full access to the UI Library, which houses the largest Slavic collection west of Washington, D.C., and the attentive assistance of Slavic reference librarians.

“Many scholars have told us that the UI Library is the best place to conduct research in our field,” Park said.

A complete list of events and activities, including locations, is available on the Web at www.reec.uiuc.edu/srl/srl.html.

ACHIEVEMENTS, CONTINUED FROM PAGE 2

liberal arts and sciences

Eugene Giles, professor emeritus of anthropology, was awarded the Charles R. Darwin Lifetime Achievement Award by the American Association of Physical Anthropologists. The award was established to recognize and honor senior members who have contributed significant scholarly work in the profession and who have contributed significant service to the association. Giles was selected for the award based on his record of research and publication in a number of areas of biological anthropology, combined with his past service as executive committee member, vice president and president of the organization.

university library

Rajwant S. Chilana, professor and South Asian studies librarian, was honored with a Fellowship by the Society for Information Science, India, for outstanding contributions to the development of library and information science.

Sarah Shreaves, professor and project coordinator for the IDEALS (Illinois Digital Environment for Access to Learning and Scholarship) Institutional Repository initiative, has been appointed to a three-year term on the Program Planning Committee for the semi-annual Forum Programs of the Digital Library Federation. The DLF is a consortium of libraries and related agencies that are pioneering the use of electronic-information technologies to extend collections and services. The forums allow attendees to share and discuss cutting-edge digital library activities and issues. IDEALS is a multi-year effort to preserve and provide access to the digital scholarship of faculty members and students on the Urbana campus.

The American Library Association has honored the following UI librarians:

Chilana was elected member-at-large of the Asian, African and Middle Eastern Section of the Association of College and Research Libraries, a division of the ALA.

Kathleen Kern, professor and assistant reference librarian, was elected vice-chair/chair-elect of the Machine-Assisted Reference Section of the Reference and User Services Association, a division of the ALA.

Kathleen Kuegel, professor and English librarian, was elected secretary of the Literature in English Section of the ACRL.

Lisa Romero, professor and communications librarian was elected vice-chair/chair-elect of the Education and Behavior Sciences Section of the ACRL.

Allison Sutton, professor and psychology and speech communications specialist, was elected secretary-treasurer of the Library History Round Table, a division of the ALA.

Susan Schmucker, assistant director, Mortenson Center for International Library Programs, was elected vice-chair/chair-elect of the International Relations Round Table, a division of the ALA.

ưa의사학

Betsy Kimpel, 75, died May 28 at Heartland Healthcare Center, Paxton. Kimpel was the first women’s golf coach at the UI. A celebration of life will be June 11. Friends who would like to join the family may call 217-390-1998.

Rex M. Rawlings, 64, died May 25 at Carle Foundation Hospital. Urbana. Rawlings was a locksmith for Facilities and Services and had worked at the UI for 18 years.

William Franklin Shannon, 85, died at Provena Covington Medical Center, Urbana. Shannon worked at the UI for 34 years, retiring as a laborer/��서관 in 1985. He also worked as a store clerk and storekeeper, all in the Division of Operation and Maintenance (now Facilities and Services).

Jesse W. Stonecipher, 88, died May 24 at his home in Diamondhead, Miss. Stonecipher was chief pilot at the UI for 36 years, where he developed the pilot training curriculum, supervised pilot instruction and conducted research. He was instrumental in having the Institute of Aviation designated as the first school in the U.S. to be certified by the Federal Aviation Administration to conduct all tests involved in the issuance of civil pilot certificates. He retired in 1982 as professor of aviation emeritus. Memorial: Alzheimer’s Association National Office, 225 N. Michigan Ave., Floor 17, Chicago, IL 60601.

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### June 2 to July 10

#### Calendar of Events

**Note:** Indicates Admission Charge

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<td>June 2</td>
<td>Photo exhibition at the Krannert Art Museum, &quot;Artistic Horizons: The Photographs of Art Sinsabaugh.&quot; The major retrospective exhibition, organized by the Indiana University Art Museum in collaboration with Keith Davis, is part of the Krannert Art Museum's 2005-2006 season. For more information, please visit <a href="http://www.kam.uiuc.edu">www.kam.uiuc.edu</a>.</td>
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CALENDAR, FROM PAGE 7

Krannert Art Museum and Art Education Center
"American Horizons: The West and the Nation 1854-1898"
Main hall display cases, Library. Through July 31.

Hutterite Barns and Artifacts from the Dakotas
"A Traveling Exhibit"
Main library (Dwight Center) or Media Center (underground library). For more information, call 244-3983.

Arboretum Tours
To arrange a tour, 333-7579. Beckman Institute Cafe
Open to the public. 8 a.m.-3 p.m. M-F. Lunch served 11 a.m.-2 p.m. For monthly menu, www beckman uiuc edu cafe.

Botanic Garden Tours
Because of renovations, check www.beckman.uiuc.edu/cafe.

Campus Recreation
kmarshak@prairienet.org or Kamesh Zinzow, 244-1289, or David Sochurek, 333-3167 or www.uiuc.edu/bncse.

French/Dutch Speaking Circle
By appointment, please call 244-9934. Tea Room on main fl oor, NE corner. For reservations, 333-0690; walk-ins welcome.

Uncorked:
Wine tastings at 5 p.m. 3 p.m. daily; meet at 706S. Lincoln Ave., 7-8:30 p.m. LDS Institute Language Course
Open to all faculty/staff at no charge during scheduled hours with valid ID card.

English as a Second Language Course
7-8:30 p.m. LDS Institute Building, 402 S. Lincoln Ave., Urbana. Weekly on Thursdays.

Fallon Daft Practice Group
4-6 p.m. Sunday 404 or 407 Illini Union. 244-2571.

Huizenaga Commons Cafeteria
Serving breakfast. 7:30-11 a.m. and lunch 11 a.m.-2:30 p.m. M-F. East end of Law Bldg. Ice cream: Closed for summer.

Illini Union Ballroom
11 a.m.-12:30 p.m. M-F. Second Floor, Nill Center. For reservations, 333-0690, walk-ins welcome.

Japan House
For a group tour, 244-9934. Tea Ceremony and 4th Thurs. of the month. SSpenison.

Krannert Art Museum and Klinekaid Pavilion
Free. By appointment, please call 244-6582. The Fred and Donna Giess Collection. Education Center: 11 a.m.-1 p.m. Tu-Th; Pattee Cafe: 9 a.m.-4:30 p.m. M-Sa, 2-4:30 p.m. Su.; Office Hours: 8:30 a.m.-5 p.m. M-F.

Krannert Center for the Performing Arts
Interlude: Open one hour before and after events on performance nights. Krannert Unwired: Wire tapings at 5 p.m. most Thursdays. Intermezzo Cafe: Open 7:30 a.m.- 10 p.m. M-F; 10 a.m.-9 p.m. Sa.; 11 a.m.-8 p.m. Su. Monday through weekly performances; weekends from 9 a.m. before until after performances. Promenade gift shop: 10 a.m.-6 p.m. M-Sa, one hour before until after performances. Ticket Office: 10 a.m.-4 p.m. daily, and on a.m. through first intermission on performance days; 3 p.m. daily; meet in main lobby.

Library Tours
Self-guided of main and under-graduate libraries; go to Information Desk (second floor, main library) or Media Center (underground library).

Most Salesroom
102 Meat Sciences Lab. 1-3:30 p.m. Tu & Th. 8 a.m.-1 p.m. F. For price list & specials, 333-3004.

Robert Allerton Park
Open 8 a.m. to dusk daily. "Allerton Legacy" exhibit at Visitors Center. 9 a.m.-5 p.m. daily; 244-1035. Garden tours, 333-2127.

organizations
Council of Academic Professors Meeting
1:30 p.m. First Thursday monthly. www.cap.uiuc.edu or myreily@uiuc.edu.

Classified Employees association
11:45 a.m.-1 p.m. first Thursday monthly. 244-2466 or rnickles@uiuc.edu.

French
6-7 p.m. Thursdays, Espanol Royale, 1117 W. Oregon, Urbana.

Illini Folk Dance Society
8-10 p.m. Tu & Sa. Illini Union. Beginners welcome. 398-4686.

Italian Table
Italian conversation Mondays at noon. Intermezzo Cafe, KICPA.

Latin American and Caribbean Library
"Emblems in the Twenty-First Century: Materials and Media" Main hall display cases, Library. Through June 30.

Library Tours
During normal fl oor, NE corner. For reservations, 333-0690; walk-ins welcome.

ILINext
10 a.m.-6 p.m. Monday-Thurs, 10 a.m.-3 p.m. Fri. 244-3983.

History Book Discussion Group

UI Extension Master Gardeners
For schedule, call Mark Zarnow, 244-1289, or David Harley, 333-3856.

PC User Group
For schedule, call Mark Zarnow, 244-1289, or David Harley, 333-3856.

Scandinavian Summer hour
4-6 p.m. W. The Bread Company, 706 S. Goodwin Ave., Urbana. 333-1898.

Secretariat
11:45 a.m.-1 p.m. third Wednesday monthly. Illini Union. 333-1374, rnelson@uiuc.edu or www.uiuc.edu/secretariat.

The Deutsche Konversationsgruppe
1-3 p.m. W. The Bread Company, 706 S. Goodwin Ave., Urbana.

women's Club
Open to male and female faculty and staff members and spouses. 398-5967, kmarshak@prairienet.org or http://wc.uiuc.prprairienet.org/organ.