State funds fall short; campus units prepare to cut budgets

By Sharita Forrest
Assistant Editor

Midway through the fiscal year, administra- tive and service units on the UI’s Urbana campus have been asked to trim their budgets by 2.5 percent and academic units to trim their expenditures by 1.25 percent. A $15.2 million shortfall for the Urbana campus prompted the rescissions, the result of Gov. George Ryan’s cutting $34 million from the UI budget. In a Jan. 5 e-mail letter to faculty and staff members, Chancellor Nancy Cantor and Provost Richard Herman said that reserves and other funds will be reallocated to cover approximately $8 million of the campus’s budget deficit; the remaining funds will be derived from reduced expenditures among campus units. The library was exempted from the budget rescission because of its crucial supporting role in academics and research throughout the institution. Moreover, the library already is underfunded and further reductions at this time might compromise educational quality, Herman said. Some hiring plans and infrastructure improvement projects may have to be delayed or canceled because of the cash deficit; however, campus officials believe delaying renovations to classrooms and laboratories may compromise the campus’s ability to remain competitive in attracting and retaining faculty members and students, Herman said. Officials also believe progress on certain capital projects is vital to the university’s educational and research missions, such as construction of the Post-Genomic Institute and the National Center for Supercomputing Applications facility as well as the proposed renovations of Lincoln Hall and the Microelectronics Laboratory. With a new fiscal year beginning July 1, campus officials are concerned that this year’s cutbacks may become permanent baseline budget reductions. Should that happen, unit administrators have been advised that campus reserves cannot permanently assume the burden for more than half the rescission; unit administrators have been cautioned to prepare for the possibility of absorbing the full reduction over two years. A tuition surcharge for new on-campus students put into effect in fall 2001 was slated to pay for expansion of academic programs, enhancement of the library, improved advising and some infrastructure improvements. Campus officials are trying to avoid using those funds to cover the budget shortfall. “We are determined in all of this to protect the quality of undergraduate and graduate education,” Herman said. “We entered into a compact with present and future students when we asked them to pay the surcharge. We are committed to that end.” If the budget shortfall becomes permanent, students may be asked to help out. At the Jan. 16 and 17 board of trustees meeting, Urbana campus officials were to propose that in the event of a permanent budget reduction tuition be increased $196 to cover 25 percent of the shortfall with the remain- ing cut absorbed by new on-campus students put into effect in fall 2001 was slated to pay for expansion of academic programs, enhancement of the library, improved advising and some infrastructure improvements. Campus officials are trying to avoid using those funds to cover the budget shortfall. “We are determined in all of this to protect the quality of undergraduate and graduate education,” Herman said. “We entered into a compact with present and future students when we asked them to pay the surcharge. We are committed to that end.”

Making a difference
Shirley Todd, an annual giving specialist at the UI Foundation, has been a volunteer mentor for four years through the Champaign-Urbana One-to-One Mentoring Program. The student Todd mentored is a young friend and confidant, her father, died suddenly. During those tough times, Todd said she often felt lost and alone, hungering for the undivided attention, guidance and encouragement that her mother didn’t have the ability to give. Those early experiences kindled a yearning in Todd to reach out to emotionally needy children like her teenage self. Four years ago, Todd became a mentor for Kelli, then a sixth-grader at Urbana Middle School, through the Champaign-Urbana One-to-One Mentoring Program. Begun in 1994, the C-U One-to-One program matches adult volunteers with at-risk youth in the Champaign-Urbana schools. Teachers and counselors recommend elementary, middle and high school students for the program who may be underachieving academically, have poor attendance, exhibit poor self-esteem or who seem to lack positive relationships with others.

The students meet with their mentors for an hour each week during school hours and engage in activities of their choice, perhaps playing games, working on classroom assignments or just talking. These relationships are a means of boosting students’ self-esteem and retaining them in school.

Todd and Kelli may spend their hour working on Kelli’s school projects or going for walks and talking about Kelli’s friends, her experiences at school and her goals for herself after high school.

Todd feels a special kinship with her protégé and tries to be the confident, friend and guide to Kelli that she’d yearned for as a teen. “I think if the only thing I did every week was go and sit next to her and never said a word, I think my presence would be enough,” Todd said. “If she never opened up, the fact that I was there would be a positive in her life. She can think back that there was someone there, and she wasn’t alone. There was a role model and someone that cared enough to come every week. If that’s the only thing she takes away from this, then that’s enough. That is more than the child had before.”

At the annual banquet in May 2001 where the students expressed their appreciation to their mentors, Kelli gave this thanks: “You note to Todd: ‘No words can describe how grateful I am to you!’”

By Sharita Forrest
Assistant Editor

Meeting new teachers know how to use them effectively is the purpose of a new project in the College of Education.

Integrating technology
Using computers and the Internet in the classroom has become commonplace. Helping new teachers know how to use them effectively is the purpose of a new project in the College of Education.

Sampling soil
A UI soil scientist has determined a Mason jar may revolutionize how farmers determine the nitrogen needs of their cornfields.

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www.news.uiuc.edu/ii
Nanotube ‘peapods’ have tunable electronic properties, scientists say

By James E. Kloeppel
News Bureau Staff Writer

First came fullerenes, those cage-like molecules of 60 carbon atoms bound in a ball. Then came long, thin soda straws of carbon atoms called nanotubes. Now there are fullerenes nested within nanotubes, like so many peas in a pod.

Scientists recently discovered that these nanoscopic peapods—the latest class of nanomaterials created by filling the cores of single-wall nanotubes—have tunable electronic properties. For shrinking circuits, nanotubes are the silicon of nanoelectronics, and the new findings could have far-reaching implications for the fabrication of single-molecule-based devices, such as diodes, transistors and memory elements.

“Our measurements show that encapsulation of molecules can dramatically modify the electronic properties of single-wall nanotubes,” said Ali Yazdani, a professor of physics at the UI and senior author of a paper that appeared in the journal Science, as part of the Science Express Web site, on Jan. 3. “We also show that an ordered array of encapsulated molecules can be used to engineer electron motion inside nanotubes in a predictable way.”

The new findings point to the future design of other hybrid nanoscale structures that could be tailored for a particular electronic function, much like the dopant added to silicon, which turns beach sand into today’s computer chips, the encapsulated molecules could make nanotubes more attractive as the material of choice for future nanocircuits.

To explore the properties of these novel nanostuctures, Yazdani and UI graduate student Daniel Hornbaker used a low-temperature scanning tunneling microscope that they built at the UI. With their high-resolution STM, the researchers were able to image the physical structure of individual peapods and to map the motion of electrons inside them.

The peapod samples were produced using molecular self-assembly techniques by University of Pennsylvania materials science professor David Luizzi and his group in Pennsyl-

To further demonstrate the importance of the C-60 molecules in determining the electronic properties of the peapods, the researchers used STM to manipulate the encapsulated molecules. With this unique experimental technique, they were able to compare the measurements performed on the same section of nanotube with and without the encapsulated molecules.

How the measured electronic properties of the peapod differed in the two cases provides insight into what could become design rules for hybrid structures having a specific type of electronic functionality. Because the local electronic properties of single-wall nanotubes can be selectively modified by the encapsulation of a single molecule, for example, the technique might one day be used to define on-tube electronic devices.

The UI group collaborated with University of Pennsylvania physics professor Gene Mele, who modeled the experimental findings.

“…”

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Editor Doris K. Dahl
Assistant Editor Shanta Forest
Photographer Bill Wiegand
Student Assistant Katherine McKenna
News Bureau contributors: Jim Bartow, life sciences Craig Chamberlain, communications, education, social work Keshia Green, general assignment James E. Kloeppel, physical sciences Andrea Lynn, humanities, social sciences Melissa Mitchell, applied life studies, arts, international programs Mark Reutter, business, law

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Inside Illinois Jan. 17, 2002
Tell me about your job at Beckman.
The aviation research lab is a human factors lab, so they look at things like training pilots, communications between pilots and ground control, cockpit displays and how the pilots interact with the displays. I spend a lot of my time working on computer displays for flight simulation: out-the-window scenes – landscape and terrain – and cockpit displays of instruments and maps.

What is the most challenging thing you do?
We use software and hardware of various kinds that are made to do certain things, and we’re always trying to do something a little bit different. We’ll call the people who made the software and they’ll say, ‘Well, we never thought anybody would want to do that.’ That’s one of the nice things; we’re always doing something different.

Tell me about your model rocketry hobby.
The club has a meeting once a month. Sometimes we’ll have workshops for kids or talk about various aspects of building and flying rockets. When the weather cooperates we hold launches at Dodds Park near Parkland and sometimes in Rantoul at the former Chanute Air Force Base. At any one time, I probably have a dozen rockets I can fly. I have some kits that I intend to build and some rockets I have crashed that I intend to fix.

You also enjoy contra and English country dancing.

How did you become interested in that?
My first exposure to contra dance was at a wedding 14 years ago. The reception was at Crystal Lake Park and the dancing was on the dock next to the lake. During a do-si-do, I tripped over my own feet and nearly fell into the lake. After their wedding, I started going to the local group, the Urbana Country Dancers. About 10 years ago, I started doing the calling as well.

There are several facets to being a caller: There’s choosing the dances for the evening, teaching the dances and prompting if somebody needs help. The actual calling the dance is really quite easy. There are a small set of basic figures that all the dances are composed of. You don’t have to know the dances because we walk them through each time before we do them.

What is contra dancing?
If you have seen any of the Jane Austen movies where they have a line of people dancing, that’s the dancing. We are a social dance and calls dances. I have been trying to decipher the contra dances. I have been looking at the journals of the Community Dances 1826, about half of which are English Country Dances and calls dances and calls dances with the Urbana Country Dancers and the Central Illinois English Country Dancers.

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Tell me about your model rocketry hobby.
have you as a mentor and a friend. These three years have been brightened by you and I pray that you can be my mentor in high school. Without you, I’m sure I would be doing worse in school. If stars were thank you’s then you’d have more than that number by itself to even get an idea of how many thank you’s you deserve. I’ll miss you this summer! Your friend, Kelli.”

Kelli and other students blossom because of their relationships with their mentors, according to Barbara Linder, community connections coordinator at Urbana Middle School.

Teachers and parents report that mentored children gain confidence, become better stu-
dents and interact more positively with the adults in their lives.

Some of the best testimonials about the positive effects of mentoring have come from teachers who were initially skeptical about excessively poor performing, inattentive stu-
dents from class for their mentoring sessions and who had been pleasantly surprised by the improvements they have seen in students’ behaviors and performance as a result of that one-hour of mentoring each week, Linder said.

Teachers and principals have reported that the entire school benefits because the mentored children become less disruptive and better prepared for class, according to Claudia Washburn, program manager for the Howard Hughes Pro-
gram for Undergraduate Education in the Life Sciences.

Since 1997, Washburn has been mentoring children at Champaign’s Kenwood School through the Bouchet Outreach and Achieve-
ment in Science and Technology (BOAST) mentoring program. BOAST is a daily after-
school program that simulates at-risk children’s internal, private and public needs.

However, the benefits of mentoring are reciprocal. Adult mentors such as Washburn report that their mentoring relationships have given them feelings of satisfaction and accom-
plishment as they see their students change and grow. In fact, Washburn has enjoyed the expe-
rience so much that she persuaded her mother, 77-year-old Gen Krapac of Champaign, to become a mentor too.

“It’s very satisfying,” Washburn said. “There have been times when I felt like I was just too busy, just couldn’t find time to go, but I always did and was always glad I did just to see the excitement and development the kids got from the program.”

Chancellor Nancy Cantor believes that vol-
unteer mentoring programs also give univer-
sity students valuable opportunities for self-
discovery and civic responsibility.

“College is all about taking experiences into the classroom and then going back to the com-
munity,” Cantor said. “In this way, learning in the classroom is as much service learning as learning in the community. I am thrilled to see courses in the colleges of Education, Engineer-
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Amanda Siegel, who now teaches fourth and fifth grade students at Champaign’s Dr. Howard School, was a BOAST program men-
tor for two years while she was a UI student. Siegel said her mentoring experience shaped her teaching strategy because she’s seen how vitally important one-on-one time with adults and small-group interaction are for children.

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“She has a wonderful sense of humor that I can use,” Palumbo said. “When I really get tense, I call Denice up, and I can vent to her. She always makes it much better and gives me good advice. Even though I was the actual mentor at one time, I feel like it’s turned around now.”

“We get that with a lot of the mentor/protégé matches,” Wells said. “The men-
tors have come back year after year on their post-evaluations of the program and said I’ve learned just as much from the program as the mentee. And Terri has certainly helped me because I was a secretary IV when I was matched with her, and I’ve been promoted twice since.”

Wells, now an administrative secretary in the department of physiology, attributed her professional growth and development to Palumbo’s willingness to be an honest critic instead of just a cheerleader.

“The hard part is when you’re really taking this relationship seriously the mentor has to act like the stern mother and sometimes tell you things that you don’t want to hear,” Wells said. “Terri’s done that in some difficult situations that I’ve had to face over the years, and I respect her for being able to do that.”

Making a difference

January has been designated National Mentoring Month to heighten public awareness about the positive impact that volunteer mentors can have on young people.

The guidance, support and nurturing children receive from volunteer mentors has been shown to lessen the chances they will engage in school violence, abuse alcohol or drugs or drop out of school. Mentoring also has been shown to improve school attendance and performance and improve peer and family relationships. Unfortunately, children who are at the greatest risk for self-destructive behavior are least likely to have natural or informal adult mentors in their lives.

Local Mentoring Opportunities

For more information or to volunteer for the BOAST of
Champaign-Urbana One-to-One mentoring programs contact:
BOAST: Barbara (Bobb) Trist, visiting specialist in education, 248-1984
Champaign-Urbana One-to-
One mentoring program: Barbara Linder, community connections coordinator, 337-0653 or e-mail lindero@knight.cti.illinois.edu

Secretariat offers mentoring program for members

By Shariya Forrest
Assistant Editor

Young people aren’t the only ones who need a guiding hand and confidant. Workplace mentoring relationships are one means members of the Secretariat, the fellowship organization for secretaries on the Urbana campus, employ for personal and professional growth.

“Lift as you climb” is the slogan of the Secretariat’s mentoring program, which began in October 92 when the ad hoc mentoring committee was appointed. The first mentor/protégé matches were made in August 1993.

The Secretariat’s mentoring commit-
tee matches protégés with Secretariat member volunteers who have the exper-
ise, knowledge, technical skills or other qualities that the protégés are seeking for personal or profes-
sional development. Because not all mentors are made in heaven, a liaison on the mentoring committee is designated to assist mentors or protégés who find that their mentoring relationship is not fulfilling their expectations.

Since the program began, between 21 and 60 members have participated annu-
ally, including Terri Palumbo, a past presi-
dent of the organization, and current presi-
dent Denice Wells.

Palumbo, an administrative assistant in the Office of Business and Financial Services, became Wells’ mentor in 1994 when Wells agreed to join the mentoring committee contingent upon Palumbo’s becoming the program’s first mentor. Wells has suggested the relationship because she wanted Palumbo to help her navigate the university’s labyrinthine hierarchy and develop a network of contacts.

As with many mentor/protégé pairs, Palumbo and Wells say their relationship has had reciprocal benefits.

“She has a wonderful sense of humor that I can use,” Palumbo said. “When I really get tense, I call Denice up, and I can vent to her. She always makes it much better and gives me good advice. Even though I was the actual mentor at one time, I feel like it’s turned around now.”

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UI Library and Kanazawa Institute of Japan offer reciprocal access to library users

The UI Library and the Kanazawa Institute of Technology (KIT) are offering reciprocal access to their journal collections. Through a re-
source-sharing agreement signed Nov. 21, library users at both institu-
tions can use the other’s print hold-
ings at no charge.

“We are very pleased to sign this partnership agreement with KIT,” said University Librarian Paula Kaufman. “The Library strives to provide its users access to information wherever it is located, and this new agreement greatly facilitates our ability to ac-
cess technical and scientific informa-
tion from Japan. As a major part of the international network of library resources, the Library hopes to con-
tinue to develop these partnerships in new and innovative ways.”

The agreement, which took effect Jan. 1, promotes the international ex-
change of information to enhance higher education. Faculty members and stu-
dents will benefit from the partnership, which provides reciprocal access to ar-
ticles from serial titles in campus library collections and electronic holdings by means of the Internet.

The Kanazawa Institute of Technol-
ogy is Japan’s largest institution of higher education specializing in en-
gineering and technology. It offers un-
dergraduate and graduate degree programs that encourage innovative and flexible thinking as well as technolo-
gical and methodological expertise. KIT also maintains 18 research labora-
tories that rank among the most advanced engineering facilities in Japan.
achievements

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

agricultural, consumer and environmental sciences

Phillip J. Dziuk, professor of animal sciences at the UI from 1955 to 1988, received the University of Minnesota’s Outstanding Achievement Award at an Oct. 11 ceremony for his contribution to the research of dairy cattle. He discovered the stereoid permeability properties of silicon rubber, which led to the success of the commercial embryo transplant industry. He also was a pacemaker in using ultrasound in the 1970’s to diagnose pregnancy in livestock.

applied life sciences

Chrisann Schiro-Geist, professor of community health and Disability Research Institute professor, received the W. Faulkes Award, which honors pioneers in the field of education, at the National Rehabilitation Association Awards Breakfast in Biloxi, Miss., on Nov. 3. She has spent 25 years promoting distance education for rehabilitation professionals nationally and internationally. She was nominated by Emer Broadbent of the Disability Research Institute.

engineering

Stephen A. Boppart, professor of electrical and computer engineering and in the College of Medicine, was among 38 U.S. scientists to receive biomedical engineering research grants in October from the Virginia-based Whitaker Foundation. Boppart received $210,000 for his research on optical contrast agents for optical coherence tomography. A total of $8.6 million was awarded to 34 universities and research institutions to solve medical problems and improve human health.

Paul G. Kwiat, professor of physics, was invested as the John Bardeen Endowed Chair in Electrical and Computer Engineering and Physics, sponsored by Sony Corp., at a ceremony Nov. 28 in Loomis Laboratory of Physics. Sony funds the chair to improve human health. Klaw received $210,000 for his research on optical contrast agents for optical coherence tomography. A total of $8.6 million was awarded to 34 universities and research institutions to solve medical problems and improve human health.

fine and applied arts

Anne D. Hedeman, professor of art history, has been named a J. Paul Getty Museum Guest Scholar for January and February 2002. She will write the first of a series of books that will analyze how the patronage of French notaries and secretaries affected the visual culture of late medieval France as a guest of the department of manuscripts at the Getty Research Institute.

UI library

Paula T. Kaufman, UI librarian and professor of library administration, was elected president of the Association of Research Libraries (ARL) at the 2001 Fall Board and Membership Meeting Oct. 16-18 in Washington, D.C. The ARL is a non-profit membership organization of more than 120 libraries of North American research institutions. Its mission is to shape and influence forces affecting the future of research libraries in the process of scholarly communication.

library and information science

The LEEP program, an online master of science degree offered by the Graduate School of Library and Information Science at the UI, received the award for Most Outstanding Asynchronous Learning Networks from the Sloan Consortium, an association of accredited institutions of higher education. These learning networks are anytime, anywhere learning online. The program is recognized for graduating nearly 160 students, with approximately 175 current enrollments. The consortium recognized LEEP for its “exceptionally high retention rate for its student body, which spans 43 states and eight foreign countries.”

psychology

Roderick P. McDonald, professor of psychology, was elected president of the Society for Multivariate Experimental Psychology at its annual meeting Oct. 11-13 in Monterey, Calif. Roderick also received the Saul B. Sells Award at the meeting for outstanding lifetime contributions to multivariate experimental psychology. This marks the first time in the history of the society where both honors were awarded to the same person at one meeting.

veterinary medicine

Robert Clarkson, professor of veterinary clinical medicine and of veterinary biosciences, medical information science, was invited to give a lecture at the 10th International Conference on Bioinorganic Chemistry, held in Florence, Italy, in August. The trip was sponsored by the European Union Commission of Science and Technology. Clarkson’s laboratory is one of only two in the United States invited to participate in the program.

Wally Hoffman, professor emeritus of veterinary pathology, was honored for “Outstanding Contributions to Animal Clinical Chemistry” by the Division of Animal Clinical Chemistry of the American Association for Clinical Chemistry on July 30.

Jonathan Foreman, professor of veterinary clinical medicine, was invited to serve on the certifying examination committee for the Sixth International Conference on Equine Exercise Physiology, to be held in Lexington, Ky., in September.

David E. Freeman, professor of veterinary clinical medicine, served on the certifying examination committee during the European College of Veterinary Surgeons meeting in Velberg, Germany, in July. He also served on the certifying examination committee of the American College of Veterinary Surgeons in San Diego, in January and February 2001.

Partners for a Caring Community

In preparing for this year’s Campus Charitable Fund Drive, I commented on how giving back to one’s community is a fundamental key to personal fulfillment and to an overall sense of community. After another record-breaking campaign, I can only marvel at the commitment, generosity and dedication of our faculty and staff in support of our community and our nation as a whole. Not only did we meet our 2001 goal of $950,000, we exceeded it and raised $1,148,000! You responded to the call for help when our nation faced one of its darkest moments on Sept. 11 while continuing to extend a helping hand in our community. Because of your generosity, more children will have an opportunity to be successful in school, more food will be available to those who are hungry and more support will be available to those in need here at home, across the nation and throughout the world.

Thank you for your contribution, hard work and support. I feel very honored to be a part of this caring community.

Nancy Cantor
Chancellor

2001 Campus Charitable Fund Drive: UI&I: Partners for a Caring Community

<table>
<thead>
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Goal: $950,000 Amount raised: $1,148,063* (121% of goal) 23.3% participation

*Receipts as of Nov. 30, 2001
UI writer reveals secret life of H.G. Wells in first book

By Sharita Forrest
Assistant Editor

H.G. Wells’ intelligence and imagina- tion may have been surpassed only by his appetite for women, as an aspect of the pro- lific author’s life that had been kept secret until now.

In “Shadow Lovers: The Last Affairs of H.G. Wells” (Westview Press), Andrea Lynn, a writer for the UI News Bureau, draws upon hundreds of previously sup- pressed and never-before-published docu- ments culled from around the globe to examine Wells’ private world and the three exotic women he wooed in his sunset years.

Along the way, she explores the roles of liber- ated love and sexual romance among celebrities and the literati in the 1930s.

Much of the material was gleaned from the UI Library, which holds the world’s fore- most H.G. Wells collection. A six-year undertaking that Lynn wrote and researched in her spare time, the book began as a research project for a special-topics graduate English course.

Lynn initially considered turning her re- search paper into a magazine article but a major Wells scholar urged her “to strike for a book.”

Using love letters, day-book entries and supervisions concerning Wells’ auto- biographical love story, which was published posthumously in 1984, Lynn discovered the identities of two American lovers Wells’ executors had concealed for decades: Constance Coolidge, a Boston Brahmin, and Martha Gellhorn, a feisty writer and war correspondent who later married Ernest Hemingway.

In her book, Lynn also unravels Wells’ exasperating relationship with his last lover, the enigmatic Russian Baroness Moura Budberg, a purported spy so masterful at deception she remained a mysterious fig- ure even to Wells and her children.

Drawing upon diaries and her own in- terviews, Lynn also examines the personal and professional life of Wells’ first wife, Ethel Cooleidge and Gellhorn, considered to be among the most fascinating and intelligent women of their time, and explores their reasons for en- gaging in relationships with Wells.

Although Wells had written copiously about his intimate relationships, his children had excised Coolidge’s and Gellhorn’s names as well as substantial amounts of narrative about them before publication. Comb- ining through the UI Library’s collection of H.G. Wells’ materials, Lynn used Wells’ original, un- expurgated manuscripts to disclose his love- ers’ identities.

“I’m restoring the record, the story of his private life,” Lynn said. “H.G. was proud of his love life and hoped that after he died his ‘confessio amantis’ would be published just as he wrote it, but that was not to be. My book is the first work to reveal what’s there.”

Dubbed “a superman” in his Aug. 14, 1946, obituary in the New York Times, Wells was an influential historian, science fiction writer, social critic and futurist who wrote nearly 100 books. However, his un- controllable lust and romantic idealism fueled an obsession. Lifelong search for his ideal woman, whom he referred to as his “lover-shadow.”

A proponent of free love, women’s lib- eration and socialism, among other causes, Wells, the author of “The Time Machine,” was also “something of a love machine,” according to Lynn.

Lynn considers various reasons for the bounteous love life of this improbable lothario, who mockingly referred to him- self as the “Don Juan of the Inteligencia.” She interprets Wells as a man who was deeply conflicted about his working-class origins and who pursued “trophy women” – beautiful, rich and well-bred enchant- resses decades younger than he – in desper- ate attempts to gentrify himself and attain spiritual fulfillment.

Exploring Wells’ intimate life and mo- tivations, Lynn reveals the darker side of a man considered an intellectual giant but who was sometimes petulant and vindic- tive and justified his promiscuity as re- commendatory for his work.

Still, Lynn sees neither Wells nor his women as victims, maintaining that all were capricious and adept at wielding their charms to achieve their objectives. Ener- mously gifted but deeply flawed, they all struggled with their compulsions and their conflicting desires for romantic attach- ment and unfettered independence.

Despite having spent several years re- searching and writing about the lives of Wells and his female counterparts, Lynn still considers them elusive and mysteri- ous figures.

“I’ll probably never stop ‘chasing’ these people,” Lynn said. “I know I’ll never learn everything about them. But I’ll keep on digging. They’ll always be in my life. I’ll always be thinking about them.”

Technology becoming standard issue for UI teachers-in-training

By Craig Chamberlain
News bureau staff writer

The past decade brought a rush of technology to educa- tion. Many teachers, however, still lack the know-how to use the new tools effectively.

With $3.2 million in funding over the next three years, the UI College of Education is revamping its program to address the need.

The initiative, under way this fall, will complete an effort to weave technology throughout the teacher-training curriculum, as well as provide equipment and support for student teachers and their sponsoring teachers to use tech- nology in their school classrooms.

In addition, the funding will provide technology train- ing and support for almost all the faculty members in the college, and money for continuing research on the effec- tiveness of various methods.

Only a few years ago, using computers, multimedia and the Internet in teaching was considered novel, said Susan Fowler, the dean of the college. “Now it’s a permanent teaching tool.”

The college, she said, is in a good position to take this next step in teacher education. “We’ve been at the forefront in many ways in integrating technology into teaching at all levels.”

Faculty, staff and students in the college have developed courses and online apprenticeships and interactive workshops, and even a Web search engine that caters to classroom needs. They’ve also brought technology skills to more than a thousand Illinois educators through summer workshops, found corporate grants to do the same for a third of the college faculty, developed two online master’s degree programs, and used online mentoring in a program that supports new teachers.

“We’ve had a lot of pretty exciting pre- cursors to this that make it possible, and faculty that are really committed and ex- cited about working with it,” said Cathy Thurston, director of the college’s Office of Educational Technology and one coordina- tor of the project.

The project, dubbed TALENT (Tech- nology Across Learning Environments for New Teachers), had been planned for several years but lacked the necessary funding. That came this year in the form of a federal grant from the U.S. Department of Education – more than $1.5 million promised over three years. It’s matched with more than $1.5 mil- lion from the UI, along with additional sup- port from corporations such as Apple, Dell, Hewlett-Packard, Intel and Microsoft; local school districts and a regional office for the state board of education.

One goal of the project, as with all tech- nology efforts in the college, will be to find and develop technologies and methods that enhance traditional teaching, rather than replace it for the sake of change, Thurston said. “What we’re doing is starting with the kids, starting with the curriculum, and seeing in what ways might technology enhance what we’re already doing in the classroom – finding ways that technology is going to make this experience deeper, better, more di- verse, appeal to kids with all different kinds of learning styles, provide resources they don’t already have.”

Technology in the classroom

Cathy Thurston is one of the coordinators of a new project dubbed TALENT (Technology Across Learning Environments for New Teachers). The initiative will complete an effort to weave technology throughout the teacher- training curriculum, as well as provide equipment and support for student teachers and their sponsoring teachers to use technology in their school classrooms.
Initiative seeks more accessible Web tools, software for disabled

By Melissa Mitchell
News Bureau Staff Writer

Web accessibility Jon Gunderson, coordinator of assistive communication and information technologies in the UI Division of Rehabilitation-Education Services, also chairs the User Agent Accessibility working group of the World Wide Web Consortium. The organization recently announced it was inviting developers to implement its Web Accessibility Initiative guidelines for designing more accessible browsers, multimedia players and other Web software.

Web accessibility

By Jim Barlow
News Bureau Staff Writer

Scientist finds best way to measure soil fertility is – in a Mason jar

By Melissa Mitchell
News Bureau Staff Writer

Soil samples

Soil samples

Richard Mulvaney (right), a professor of soil fertility in the department of soil, water and environmental sciences, and Sooed Khan, a research specialist in Mulvaney’s lab, demonstrate the first test – using Mason jars – to detect chemical fractions in soil that feeds corn plants. “The Mason jar is the key to this whole test. It is in effect an extraction system and the best one I’ve ever seen,” Mulvaney said.

For more than a century, researchers have sought an accurate method to measure nitrogen content and needs of soil. Tests have come and gone, but farmers continue to rely on a mathematical equation based on desired yield with adjustments for manure and other nitrogen sources. That approach often leads to adding fertilizer that a crop simply can’t use, say UI soil fertility experts.

Enter Richard Mulvaney, a professor of soil fertility in the department of natural resources and environmental sciences, and Sooed Khan, a research specialist in Mulvaney’s lab. He has developed the first test – using Mason jars – to detect chemical fractions in soil that feeds corn plants. His Illinois N Test sorts the fraction of amino sugars from nitrogen in soil. “We expect to eventually be able to tell a farmer exactly how much nitrogen his soil can use,” he said.

Researchers place a sample of dry soil mixed with a dash of sodium hydroxide into the jar. Hanging from the lid is a petri dish containing a dab of boric acid solution. While sealed, the jar is heated at 120 degrees for five hours. Amino sugar nitrogen in the soil is converted to gaseous ammonia and collects in the petri dish. Using titration, researchers then determine how much nitrogen is in a sample that could poten- tally be delivered to plants.

Mulvaney described his research in October at the annual meeting of the American Society of Agronomy in Charlotte, N.C. In November, Robert Hoefl, a professor of soil fertility in the UI crop sciences depart- ment, demonstrated the test at two regional soil fertility meetings in Iowa. “The response has been fantastic, and there is a sense of urgency,” Hoefl said. “They want it now.”

Just begun is a one-year study in which researchers will take samples weekly from three fields in East Cen- tral Illinois to track changes in the amino sugar nitrogen content. “We hope to be able to take a sample in the fall and predict nitrogen availability for the next growing season,” Mulvaney said.

How accurate is the test? “If someone applied manure 17 years ago, this test will detect it,” said Sooed Khan, a research specialist in Mulvaney’s lab. A high concentration of nitrogen in one sample was traced using a map to find the side gate of a pigpen, where manure was often dumped.

If additional experiments prove the test is ready, Khan said, manure could become a valuable recyclable commodity, nitrate runoff could be reduced by better manage- ment, and Mason jars – used for storing fruits and vegetables since their patent in 1858 by John Landis Mason – would have new use.

“If at first glance, it looks silly and seems almost amazing that a Mason jar could be used for this purpose,” Mulvaney said. “But the fact is that a Mason jar is the key to this whole test. It is in effect an extraction system and the best one I’ve ever seen.”
**‘Searching for a Cure of Sickle Cell Disease’**

NIH chief to lecture Jan. 31

Dr. William A. Eaton, the chief of the Laboratory of Chemical Physics at the National Institutes of Health, will give a public lecture, “Searching for a Cure of Sickle Cell Disease,” at 4 p.m. Jan. 31 in the auditorium of the Beckman Institute for Advanced Science and Technology. Eaton, an adjunct professor in both the department of chemistry and the department of biochemistry and bio-physics at the University of Pennsylvania, also will give a more technical talk, “Understanding Molecular Processes in Biology,” at noon Feb. 1 in the auditorium (Room B102) of the Chemical and Life Sciences Building.

Eaton is a fellow of the American Academy of Arts and Sciences, a member of the Association of American Physicists and a fellow of the American Physical Society. He is a fellow of the American Association for the Advancement of Science.

His research utilizes physical methods to study biomedical problems and has included investigation of the dynamics and function of proteins and of the molecular pathology of sickle cell disease.

Eaton’s visit is sponsored by the Visiting Scholar program of the Phi Beta Kappa Society to enable chapters to bring distinguished scholars to their campuses, and is co-sponsored by the colleges of Agricultural, Consumer and Environmental Sciences, Medicine, and Veterinary Medicine, the schools of Chemical Sciences and of Molecular and Cellular Biology, the Beckman Institute, and the departments of biochemistry, physics and veterinary pathology.

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**Grainger Engineering Library**

Grainger offers extended hours

The Grainger Engineering Library Information Center is now offering extended evening hours. The library will be open from 4 to 9 p.m. Sunday through Thursday, increasing library availability by 10 hours each week and affording students a safe, comfortable study space at a central location on campus.

The extension is part of the efforts of Illinois Student Government (ISG) to accommodate overwhelming demand by students. “Our involvement arose from student concerns about having a place to study after midnight,” explains Bob Morgan, ISG president. “The issue became part of the student government campaign last spring when both slates adopted the idea. Last August the University Library submitted a proposal to the Provost’s Office that recommended reinvestment of tuition surcharge monies to extend hours in Grainger Library.

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**Five intermediate-level seminars**

Free seminars on survey research

The Survey Research Laboratory (SRL) is conducting a series of five intermediate-level seminars on survey research issues during the spring semester on Wednesdays, Feb. 6 through March 6, from noon to 1 p.m. The seminars are free to UI faculty and staff members and students. Some knowledge of survey research is recommended, and advance registration is required.

To register for one or more of the seminars or for more information, send e-mail to krisht@uiuc.edu or call 333-4273. Include full name, e-mail address, department and whether you are a faculty or staff member or a student. Registrants will be notified of the room assignment upon registration.

For more information about these seminars, see the Web site, www.srl.uiuc.edu/SEMINARS/spring02.htm.

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**Physical activity and menopause**

Participants needed for study

Participants are needed for a survey-based study investigating the link between physical activity levels, hormone replacement therapy and the psychological aspects of menopause. Participation in this research involves completing a battery of questionnaires assessing physical activity levels and several psychosocial variables. Participants who complete and return all questionnaires will be eligible to win a lottery for one of three drawings of $200 and will obtain a packet with exercise tips and exercise resources available in the area.

You may qualify if:

- you are a woman between the ages 45-59
- you are considered pre-menopausal, peri-menopausal (irregular menstrual cycles) or post-menopausal
- you have no history of hysterectomy and/or bilateral oophorectomy

For further information, contact: Steriani Canaklis, department of kinology, 908 S. Goodwin Ave., 205, Freeer Hall, MC-152, 244-4510, or e-mail canakis@uiuc.edu.

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**Event to teach critical thinking**

Eighth annual faculty retreat

The eighth annual faculty retreat on Teaching for Active Learning (“Teaching Students to Think in the Language of Our Discipline”) will be Feb. 12 at the Illini Union. The event brings faculty members from all disciplines together to focus on best practices in teaching at the college level. The keynote speaker is David Pace, Carnegie Scholar and professor of history, Indiana University. He also is co-director of the Lilly Freshman Learning Project, a creative program that supports the redesign of large introductory courses to increase student learning. He has received numerous teaching awards at his home institution and nationally. Pace will be sharing his investigation of how learning occurs within specific disciplinary contexts.

The retreat will begin with a welcome by Provost Richard Herman, who will present the 2001 Distinguished Teacher/Scholars: Professors Shelly Schmidt of food science and human nutrition, James Gentry of finance, and Michael Loui of electrical and computer engineering. Following the keynote there will be concurrent sessions featuring faculty members from a variety of disciplines. Faculty members can register through the Web at http://nautilus.outreach.uiuc.edu/conted or by calling 333-2880.

For faculty members and teaching assistants

CourseGrade workshop announced

Free hands-on workshops on Campus CourseGrade are being offered for faculty members and teaching assistants.

CourseGrade is a secure computer program that instructors can use to compute, maintain and publish their grades online. It was developed by the Computing and Communications Services Office (CCCSO) and is maintained and supported by CCCSO and the Office of Instructional Resources (OIR).

The schedule for upcoming workshops is:

- Jan. 23: 1-3 p.m., West Oregon Computing Services Building, 901 W. Oregon
- Jan. 29: 10 a.m.-noon, 146 Evertt Lab
- Feb. 12: 1-3 p.m., Illini Union Ballroom

To reserve a space in one of the workshops, contact OIR’s Division of Measurement and Evaluation at 333-3490 or e-mail dmteele@uiuc.edu for more information. For information about Campus CourseGrade, visit www.uiuc.edu/ccso/cgradebook.

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**‘Surviving and Thriving Through Divorce’**

Parenting workshops offered

The fifth in an annual series of parenting workshops designed for university faculty and staff members and their families will focus on “Surviving and Thriving Through Divorce.” The keynote speaker is David Pace, Carnegie Scholar and professor of history, Indiana University. He also is co-director of the Lilly Freshman Learning Project, a creative program that supports the redesign of large introductory courses to increase student learning.

The five seminars are:

- Session 1: Coming Apart: Divorce and Separation
- Session 2: Being Single – Single Parenting and Its Challenges
- Session 3: Re-Partnering – Blended Families and Step-Parenting
- Session 4: Re-Partnering – Divorce and Remarriage
- Session 5: Re-Partnering – Stepparenting

For further information, contact: Steriani Canaklis, department of kinology, 908 S. Goodwin Ave., 205, Freeer Hall, MC-152, 244-4510, or e-mail canakis@uiuc.edu.

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**Steps for junior art class offered**

A new Saturday art class offered by the School of Art and Design at the UI is for parents and their children between the ages of 2 1/2 to 4 1/2 years old.

Classes start Jan. 26 and continue through April 20. Classes meet from 10:30 a.m. to noon on Saturdays in the Art and Design Building.

Tuition is $125 per semester. Class size is limited to 10 families. To inquire about or enroll, call Carole Smith at 333-1562 or e-mail csmith2@uiuc.edu.

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**Making Art Together**

Parent/child art class offered

A new Saturday art class offered by the School of Art and Design at the UI is for parents and their children between the ages of 2 1/2 to 4 1/2 years old.

Classes start Jan. 26 and continue through April 20. Classes meet from 10:30 a.m. to noon on Saturdays in the Art and Design Building.

Tuition is $125 per semester. Class size is limited to 10 families. To inquire about or enroll, call Carole Smith at 333-1562 or e-mail csmith2@uiuc.edu.

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**Multimedia and computer generated art**

Art for High School students

The Saturday School Program at the School of Art and Design is offering a Multimedia/Computer Art Class for high school students. Students enrolled in this class will use digital cameras, the Web, scanners, PowerPoint, PhotoShop and other multimedia programs. Students at any level of experience with computers and digital technologies are encouraged to enroll. This class is available in the Spring.
Two lifelong civil rights activists, one of whom led the Student Nonviolent Coordinating Committee (SNCC), will be among the featured speakers during the Martin Luther King Jr. Commemorative Symposium Jan. 21-25 at the UI.

Robert Moses, the author and executive director of The Algebra Project, an effort to improve mathematics literacy, will talk about his tenure as the president of SNCC and how he became involved in advancing the freedom struggle through mathematics education. He will speak at 4 p.m. Jan. 25 in Room 141 of Wohlers Hall.

Judy Richardson, associate producer of “Eyes on the Prize,” a PBS documentary, will talk about her experiences with SNCC and her subsequent work documenting the civil rights movement. Her talk will begin at 7:30 p.m. Jan. 22 in the auditorium of Smith Memorial Hall.

This year’s symposium, “Where Do We Go From Here: Chaos or Community?,” will begin with a plenary session at 3 p.m. Jan. 21 in Rooms A and B of the Illini Union. John Lee Johnson and former associate dean of students Clarence Shelley, the featured speakers, will talk about the history of the civil rights movement in Champaign-Urbana. After they speak, there will be group discussions on several historical and contemporary topics.

The symposium theme is taken from a King essay. The purpose of the symposium, now in its fifth year, is to use the King holiday as a time for public reflection on the life and teachings of the late civil rights leader.

The African American Cultural Program is coordinating the symposium, with sponsorship from the Chancellor’s Office, the UI Alumni Association, the Office of the Vice Chancellor for Student Affairs, the Champaign Park District and many offices on campus. All events are free and open to the public. Scheduled activities include:

**Jan. 17 (Thursday):** Countywide celebration. 11:30 a.m. to 1:30 p.m., Illinois Terminal Building, 45 E. University Ave., Champaign. Speaker: The Rev. Robert F. Freeman, pastor of the First United Methodist Church in Rantoul, Ill.

**Jan. 20 (Sunday):** MLK Scholarship program. 5 p.m., Foellinger Great Hall, Kranert Center for the Performing Arts. Keynote speaker: The Rev. Walter E. Levens, pastor, New Bethel Baptist Church, Washington, D.C., and the president of the National Black Leadership Roundtable.

**Jan. 21 (Monday):** Plenary session, “History of the Civil Rights Movement in Champaign-Urbana.” 1 to 2 p.m. Welcome by Chancellor Nancy Cantor; keynote speakers Clarence Shelley and John Lee Johnson. Rooms A and B, Illini Union. To be followed by group discussions from company representatives who will receive a booklet containing the abstract and resume of all students presenting posters.

The next day, the Biotechnology Job Fair will take place at the Illini Union in Rooms A, B, and C from 9:30 a.m. to 3:30 p.m.

"I think this is an excellent venue for student job candidates to connect with recruiters and make an impression. By discussing their research with industry representatives and scientists, they can develop relationships that will help them get a job or internship," said Kathleen Brinkmann, placement director, Biotechnology Center.

More than 40 students from bachelor’s through doctoral levels have submitted posters for the upcoming session. Other universities, like the University of Chicago, have combined a Student Poster Session with its Job Fair with great success. The UI’s Urban Student Poster Session is co-sponsored by the Biotechnology Center Placement Office, Pierce-Chemical Co. and Kimberly-Clark Co.

Faculty and staff members are welcome to view the posters from 7 to 9 p.m. Jan. 23.

**Insect Fear Film Festival**

*Alien Arthropods* featured Feb. 9

AIDS? Fear not. Laugh instead. The 2002 edition of the Insect Fear Film Festival is coming early this year. The 19th annual internationally renowned event will begin at 6:30 p.m., Feb. 9, in Foellinger Auditorium. This year’s theme is “Alien Arthropods.”

Three feature-length films, including “Starship Troopers,” will be tools for festival creator and UI entomologist May Berenbaum to show the absurdity of film portrayals of insects and entomologists. More details will appear in the next *Inside Illinois.* ◆
 Coverage of Academic Human Resources, Suite 420, 807 S. Wright St., maintains listings of academic and other university positions available during regular business hours. Listings also are available online. Academic professional positions are listed in the last issue of the Near South Side. A job opportunity information can be found at http://hrweb.illinois.edu/jobs/.

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Flamenco king

The reigning king of flamenco creates a stirring journey into the heart and soul of Iberian culture and Gypsy spirit. Dance, music and color mingle in this folklore celebration. Compañía Espectáculo de Antonio Márquez presents a dynamic folkloric celebration of dance and music at 8 p.m. Feb. 8 at the Foellinger Great Hall at Krannert Center for the Performing Arts.

Endowed with a magnetism and expressive intensity that make him an unforgettable flamenco performer, Márquez is revered as a great flamenco artist and an exceptional choreographer who is attentive to and respectful of the traditional values of the dance form while at the same time infusing it with originality. In 1998, the government of Spain awarded the Award for Most Esteemed Professional Dancer upon Márquez.

25 Friday


31 Thursday


10 Wednesday

Midweek Artspeak:


1 Friday


4 Monday


6 Wednesday

Midweek Artspeak:


13 Thursday

“Developing Conception of the Nature of Scientific Knowledge and Knowing in the Middle and High Schools Years: Cross-Sectional Study.” Farhad Abd El Khalil, Elsevier University. 242 Education Building. Educational Research.

14 Friday


10 Saturday

“Horoscope of the Emperor Hadrian.” Stephan Helm, University of Munich. 2 p.m. Great Hall, Krannert Center. Winner: Liwei Qin, cello. BBC Concert Orchestra of London. Barry Wordsworth, conductor. 8 p.m. Foellinger Great Hall at Krannert Center. Celebrating its 50th anniversary with an all-Mendelssohn program, the orchestra presents two special programs highlighting the English symphonic tradition. This concert features Elgar’s “Cockaigne Overture” and Enigma Variations,” Coates “London Suite” and Vaughan Williams’ “The Lark Ascending.”

11 Friday


12 Saturday

Midweek Artspeak:

“Ragtime.” 7:30 p.m. Assembly Hall. A turn-of-the-20th-century portrait of three families: one upper-middle-class white, one socialist immigrant Jewish and one Harlem black, who discover an era where everything was new and anything was possible as their lives become intertwined with each other and with real-life historical characters. Admission charge. News-Gazette Broadway Series.

18 Saturday

Political Economy of Media.” Thomas Pierson, UI. Noon. 242 Great Hall, Shaffer Library. University of Alberta, guest conductor. 8 p.m. Foellinger Great Hall at Krannert Center. Winners of the UI School of Music Student Composers’ Competition will be presented. Admission charge. School of Music.

25 Friday

“Interpreting the Global South.” Pradip Pradip, UI. Noon. 242 Great Hall, Shaffer Library. University of Alberta, guest conductor. 8 p.m. Foellinger Great Hall at Krannert Center. Winners of the UI School of Music Student Composers’ Competition will be presented. Admission charge. School of Music.

31 Thursday

Family concert
The young and young at heart will enjoy a family concert presented by Sinfonia da Camera at 2 p.m. Feb. 10 in the Foellinger Great Hall of Krannert Center for the Performing Arts. Through words and music, the adventures of Paddington Bear are brought to life in “Paddington Bear’s First Concert.” Music is by Herbert d’Allemagne and text is by Michael Bond, author of the well-known books about the adventures of the Bear. Also featured is the classic tale of “Peter and the Wolf” by Sergei Prokofiev.

Concert-goers are encouraged to arrive early for special activities for families from 2 to 3 p.m.

9 Saturday
8 p.m. Foellinger Great Hall, Krannert Center. The young and the young at heart will enjoy a family concert featuring Prokofiev’s “Peter and the Wolf” along with “Paddington Bear’s First Concert.” Music is by Herbert d’Allemagne and text is by Michael Bond, author of the well-known books about the adventures of Paddington Bear. Also featured is the classic tale of “Peter and the Wolf” by Sergei Prokofiev.

Concert-goers are encouraged to arrive early for special activities for families from 2 to 3 p.m.

Family concert

8 p.m. Foellinger Great Hall, Krannert Center. A program featuring works, both contemporary and traditional. Admission charge. School of Music.

10 Sunday
Sinfonia da Camera. Ian Hobson, artistic director and conductor. 3 p.m. Foellinger Great Hall, Krannert Center. The young and the young at heart will enjoy a family concert featuring Prokofiev’s “Peter and the Wolf” along with “Paddington Bear’s First Concert.” Chappell.

Admission charge. School of Music.

UI Symphonic Band II and UI Concert Band I. Peter J. Griffin and Kenneth Stevens, conductors. 7 p.m. Foellinger Great Hall, Krannert Center. A program featuring works, both contemporary and traditional. Admission charge. School of Music.