**Medical News:** Gender differences might play role in drug addiction risk

**Inside:** Hatcher Competition winner ‘glitterball’ on stage here April 26-30

**Washington People:** Rose Brower brings out the dazzle in engineering

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**April 13, 2000**

**Washington University in St. Louis**

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**Paying tribute Julian Bond, five others receiving honorary degrees**

A Nobel Prize winner in chemistry and a world-renowned sculptor are among the six people selected to receive honorary degrees during Washington University’s 139th Commencement May 19. The University also will bestow academic degrees on some 2,500 students during the ceremony, which begins at 4 p.m. at Brookings Quadrangle.

The others receiving honorary degrees will be: Alvin J. Miss, a world-renowned sculptor and installation artist; and Alvin J. Smith, Ph.D., professor of earth sciences. This semester, the two professors and often by their peers. Electrical engineering students in EE 480, however, will have a different twist to their spring semester project. If all goes well, the fruits of their labors will be launched into space on a NASA rocket in June. Electrical Engineering 480 is an advanced undergraduate course taught by Donald L. Snyder, Ph.D., the Samuel C. Sachs Professor of Electrical Engineering, and William H. Smith, Ph.D., professor of earth and planetary sciences in Arts & Sciences. This semester, the two professors from different schools share their highly acclaimed imaging expertise with the course’s 13 students to help them prepare a compact package roughly five inches in diameter and seven inches long.

The package will be in a canister placed within a National Aeronautics and Space Administration rocket’s nose cone and launched from Wallops Island on Virginia’s coast. Inside will be a sophisticated hyperspectral imager along with supporting electronics and computer equipment for image and data acquisition.

The students, working in groups of two and three, have been responsible for designing, implementing and testing the sensor package and its supporting software. After the launch in June, the rocket is expected to reach an elevation of about 200 miles and land about 200 miles east of Wallops Island in the Atlantic Ocean. NASA will retrieve the package and return it to the University where the imaging with the package will be analyzed.

Smith invented the hyperspectral imager, called a Digital Array Scanned Interferometric, or DASI (pronounced like “daisy”). It records digital images much like a camera, except that it can produce image data resolved into more than 100 different spectral bands. By comparison, a typical color camera and the human visual system can only resolve the visible spectrum into three broad overlapping bands: red, green and blue. Hyperspectral data, as it is known, can be used to identify and discriminate objects in a scene using highly detailed color information not discernible by the human eye.

DASI represents a rapidly emerging technology used for a broad range of remote sensing and assessment targets — agricultural crops, mineral outcroppings, ocean reefs, the Earth’s atmosphere, the planets and other astronomical objects. According to Smith and Snyder, NASA has flown the DASI on various aircraft, including a solar-powered one.

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**Construction on two parking lots east of Brookings Hall under way**

By CHRISTINE FARMER

Work begins this week on construction of two parking lots, one to the northeast and the other to the southeast of Brookings Hall. The lots will help the University maintain its agreement with St. Louis County, which requires the Hilltop Campus to have at least 5,144 parking spaces.

A permanent parking lot will be built on the north edge of campus between Chaplin and Hoyt roads, just north of Forsyth Boulevard. The lot will be accessible from Chaplin.

A larger temporary parking lot will be built on the north edge of campus bordered by Hoyt, Compton and Throop drives. It will have 1,544 parking spaces.

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**Small but growing’ American Indian group makes its presence felt**

By DAVID MOOREN

A Cherokee from Oklahoma. A Shinnecock from Long Island. An Iroquois, a member of the Gitksan tribe of the Tsitsikamum nation from the northwest coast of Canada. A half-Aztec, half-Chicana from Los Angeles. An Aluet from Nome, Alaska.

A glance at the numbers underscores the challenge. There are approximately two million American Indians in the country — less than 1 percent of the total population. With poverty as a key constraint, only about 60 percent of American Indian students graduate from high school. Approximately 20 percent go on to college, with 5 percent graduating.

At Washington University, the numbers are indeed increasing. Connors estimates that the University’s “small but growing and very active American Indian population” includes about 15 undergraduates and 20 graduate students. Reflective of Connors’ intense efforts, an “extremely gratifying” total of nine under- graduates with American Indian heritage enrolled last fall. On the graduate side, “the interest is self- linked with either the social work or law school.” That has a lot to do with their scholarships and the Buder Center,” she said.

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See Parking, Page 6

See Heritage, Page 2

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See DASI, Page 7

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See Parking, Page 6

See DASI, Page 2
American Indian presence growing— from page 1
working with American Indian students, she said, "Wayne Fields in American Culture Studies has been a big advocate. Carl Fritz from anthropology has been a strong supporter. They're interested in the academic component and have worked to bring in American Indian professors for visiting lectures." More undergraduate scholarship support also occupies a spot on Connors' wish list. Recently, it was announced that the fall incoming American Indian undergraduates would receive a Carter Revard fellowship, named for the emeritus professor of English who is an Osage Indian.

Heritage
Looking for a possible answer for what Hilltop Campus building? Campus quiz: This grandfatherly figure

American Indian presence growing

American Indian presence growing

Campus quiz: This grandfatherly figure will be sold for the rides. The competition, "Thurtene's coming!" will be held from 11 a.m. to 4 p.m. on Saturday, April 15; April 22 is the rain date. All are welcome to cheer on the racers and to learn more about MC+ for Kids. The net proceeds generated by the competition, "Thurtene's coming!" will be eligible for MC+ for Kids. The Competition is seeking applicants who have or are eligible for MC+ for Kids, which provides health insurance for babies and children.

Racing to help
The University's American Medical Association—Medical Student Section (AM-A MSS) is planning a 12-hour relay race at Busch Track on the Hilltop Campus to help raise awareness and support of Missouri Children's Health Insurance Program (CHIP), for Kids, which provides health insurance for uninsured children of low-income families.

The relay begins at 6:30 a.m. Saturday, April 8, and will continue through the rain date. All are welcome to cheer on the racers and to learn more about MC+ for Kids.

Some 90,000 uninsured Missouri children are believed to be eligible for MC+ for Kids. The program provides health care, acute and preventive care hospitalizations for outpatients, physical, dental and vision coverage, pharmaceutical, occupational and speech therapy, and behavioral treatment.

Dedicated dispatchers
This National Public Service Telecommunications, and the Washington University Police are recognizing the dedicated service of the department's four full-time dispatchers. Bobbie Beck, from Canada; Richard Chiles and Linda Nichols; and Carol-associated with Missoula, Montana, are among the 80 dispatchers, including holdi... to the University community's calls do not go unanswered, last year, the dispatchers logged more than 40,564 reports ranging from building checks to crimes.

Calling all investors
The National Inventors Hall of Fame is seeking for students' best work, and you could gain national exposure by competing for up to $25,000 in cash prizes. Faculty advisors each will receive at a total of $10,000 cash prize. The competition, open to all full-time college students and judged by distinguished scientists and inventors from across the country, awards up to six prizes to the best submitted applications in June. For more information or an application, call (350) 849-6887 or visit the Web site (www.invent.org/colleague).

Answer: The pipe-smoker adorns Francis Gymnastium, part of the Athletic Complex.

Mellon grant funds three new dissertation seminars

Washington University has received a $120,000 grant from the Andrew W. Mellon Foundation in support of three international Arts & Sciences dissertation seminars, one to be held in the summer of 2000 and the other in the summer of 2001, according to Edward S. Macias, Ph.D., executive director and co-idean of Arts & Sciences. This grant is one of two that funded earlier dissertation seminars.

The grants are part of a program that The Mellon Foundation has launched at a select group of universities to address interpretive and professional issues that frequently arise at the dissertation phase in graduate education. These issues can affect the quality of dissertation research and timely progress toward degree completion. At Washington University the Mellon Dissertation Seminars have been offered under the auspices of the Graduate Arts & Sciences Committee and strongly supported by Dean Robely, Ph.D.

The theme for the 2000 Mellon seminar will be "Producing and Consuming Culture in the Early Modern World." Under the leadership of Steven N. Zwicker, Ph.D., the Stanley Elkison Professor in the Humanities, and professor of English in Arts & Sciences, this seminar will explore the ways in which material and spatial materials, plays for the private and public courts and domestic spaces, theological and visual images were produced and consumed in the early modern world. The seminar will examine the extent to which habits and modes of reading and enjoying the circumstances in which books and images and ideas were produced and consumed influenced student this excellent opportunity, Macias said. "The dissertation stage is one of the points at which graduate students can most benefit from collaborative, critical, and interdisciplinary investigation, and social sciences, which can greatly benefit from collaborative work. We are looking forward to the seminar will provide the opportunity for students to work together in this important way." The seminar will meet Tuesday and Thursday afternoons for six weeks, beginning May 30. Graduate students in the humanities and social sciences are invited to apply. An application, the seminar will receive an $1,800 stipend, to obtain an application form, contact Marie Lay in the Department of English at 935-2216. Application deadline is April 30.

Scheduled for the summer of 2000, is a seminar in "The Construction of Gender and Social Identity in European Modernism" to be directed by Gerald R. Isenberg, Ph.D., professor of history and co-director, along with Zwicker, the University's Literature & History in Arts & Sciences. Also scheduled for summer 2000 is a seminar in "Language, Literature & History in Arts & Sciences." Scheduled for summer 1996, Zwicker directed a seminar in "The Palestinian Literature and History in Arts & Sciences."

This seminar, "Palestine and Israel," is the title of an interdisciplinary dialogue designed to help dispel stereotypes about both sides in the long conflict. The event will be held at 8 p.m. Monday, April 17, in Holmes Lounge.

The Muslim Students' Association, the African American Public Affairs Committee and the American Israel Public Affairs Committee (AIPAC), as well as editor of AIPAC's weekly newsletter, Near East Reports and Jeffrey H. Kiss, president of the Zionist Organization of America (ZOA), St. Louis District. Kamafani also will sign copies of her book. The seminar is free and open to the public. For more information, contact the AIPAC (http://www.rc senate.wustl.edu) – or contact the president of the ZOAI (http://www.zoai.org).

Student groups organize dialogue about Palestinian-Israeli issues

"humanizing the Conflict, Palestine and Israel" is the title of an interdisciplinary dialogue designed to help dispel stereotypes about both sides in the long conflict. The event will be held at 8 p.m. Monday, April 17, in Holmes Lounge.

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The seminar is free and open to the public. For more information, contact: Mrs. Sandra R. Hiram (sandra@ reston.wustl.edu).

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**Medical School Update**

**Six medical faculty receive grants totaling $8.4 million**

Numerous School of Medicine faculty recently have received grants of $1 million or more to fund research on topics ranging from blood vessel formation to epidemiological and behavioral science departments.

William A. Frazier III, Ph.D., professor of pediatrics and of molecular biology and pharmacology, has received a five-year $1.8 million grant from the National Cancer Institute for research on angiogenesis or blood vessel formation. Frazier's group is studying the molecular switch that determines whether small vessels remain stable or become more permeable and sprout new vessels. Once the switch is turned on, the consequences of its actions are better understood, it might be possible to take control of the switch to inhibit or promote blood vessel growth. Such manipulations might arrest the growth of tumors or stop growth to damaged hearts.

Jane Y. Wu, M.B., Ph.D., assistant professor of pediatrics and of molecular biology and pharmacology, has received a five-year $1.7 million grant from the National Institute on Aging. Wu is studying a cellular process called alternative splicing, which generates different forms of a protein from the same gene. Defects in the use of this molecular switch can contribute to many diseases, including several nervous system disorders.

The Wu lab will focus on a protein called LIN-1, which regulates the transport of material that needs dismantling to DNA and regulates the activity of certain genes. These studies should reveal how the protein interacts with proteins in signaling pathways, how the composition of these pathways influences cell fate, how certain transcription factors are regulated by MAP kinase pathways, and how these transcription factors regulate cell fate. Scott Saunders, M.D., Ph.D., assistant professor of pediatrics and of molecular biology and pharmacology, has received a five-year $1.3 million grant from the National Institute of Diabetes and Digestive and Kidney Diseases. He studies a family of proteins called tubulins that help maintain the microtubules in the human brain. Humans who have this disease overgrow before their first birthday. They also have kidney, heart and skeletal defects and a high incidence of certain kinds of tumors. Saunders is using a mouse model of the disease to determine the mechanism that causes the birth defect.

Steven D. Shapiro, M.D., professor of pediatrics, of molecular and of cell biology and pharmacology, has received a four-year $1.2 million grant from the National Heart, Lung, and Blood Institute. Shapiro will study long-term effects of high cholesterol, a progressive, degenerative disease that primarily affects the aged by the action of many inter-related factors. Shapiro will determine whether retinoic acid, a chemical that plays important roles in development, repair, and tissue growth, can reverse the disease. Shapiro will determine whether retinoic acid has any potential benefit in the treatment of other diseases, including cancer.

The research concerns the transport of materials through the cell membrane. There are at least two types of transport, one that moves materials into the cell and one that moves materials out. This research will explore transport mechanisms using cells in culture. This research will explore transport mechanisms using cells in culture.

Because human gender studies have made little headway into understanding the differences in male and female responses to drugs, recent studies suggest that nicotine, alcohol and illicit drugs present different risks to the sexes. New work from addiction researchers at the School of Medicine indicates that opiates such as heroin and morphine have different effects in males and females. These differences might have important implications for the treatment of addiction. Researchers who study gender differences have to take cultural and social factors into account, the study noted.

"There has been little research on the way men and women react to drugs, but recent studies suggest that nicotine, alcohol and illicit drugs present different risks to the sexes. New work from addiction researchers at the School of Medicine indicates that opiates such as heroin and morphine have different effects in males and females. These differences might have important implications for the treatment of addiction. Researchers who study gender differences have to take cultural and social factors into account, the study noted."

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Recent work has shown that female rats require higher doses of a drug to relax in pain. In a study reported in a recent issue of Pharmacology Biochemistry and Behavior, Cicero found that female rats also seem to enjoy morphine more than males. This research was supported by grants from the National Institute on Drug Abuse.

"It’s hard to measure pleasure in a rat. But clearly, morphine provides a positive experience. And it continues to be positive for females long after males have started avoiding the drug."

Theodore J. Cicero

**Grant allocations**

Grants up to $25,000 are available for diabetes, endocrinology research

Faculty members who conduct research in the areas of diabetes and endocrinology are eligible to apply through the Diabetes Research and of the School of Medicine. Research at Hilltop and Medical campuses is encouraged to apply for the two grants, which will be due Dec. 3. They will range from $18,000 to $20,000 for independent research from basic science, epidemiological and behavioral science departments.

The DRTC pilot and feasibility program is seeking to develop preliminary data that could lead to independent research supported by the National Institutes of Health, which awards two to four grants at the medical school annually. Those interested must submit proposals by Dec. 3. The letter of intent must be sent by Feb. 3 to the National Institute on Drug Abuse.

"It’s hard to measure pleasure in a rat," Cicero said. "But clearly, morphine provides a positive experience. And it continues to be positive for females long after males have started avoiding the drug."

Cicero reached those conclusions by determining where rats preferred to be treated. The animals were placed in a gray Plexiglas chamber. Counterbalanced doses of the white chamber on one side of the gray chamber opened into two chambers, one with black Plexiglas walls and the other with white. To determine preference, Cicero observed where the rats spent the most time. After the experiment, they liked the black chamber.

The researchers then gave the rats morphine and placed them in the white chamber. At other times, they gave the rats inactivator to inhibit or promote the black chamber. "Rats are very smart, and they quickly learned to associate the white chamber with the drug," Cicero said.

After the rats made that connection and were allowed to roam freely into either chamber, most of them went to the white chamber where they received a supply of morphine. The rats made this choice even though they received higher and higher doses of a drug, they also might develop a greater physical dependence, and the entire approach to treatment and drug withdrawal might need to be modified in women.

"In the past, the fundamental assumption has been that abuse is absent, and male and female abusers have been treated in a uniform way," he said. "Our results suggest that may not be true. The abuse patterns may be different in males than in females, and the quantity of drugs used by the sexes may be different. If that is the case in humans, it would be extremely important to addiction science."
Hotchner winner ‘gitanjali’ probes complex relationships

By Lea Otten

Mother and daughter, gendered and boy/girl identity is often defined by our relationships with other people. Yet what happens when those roles are stretched by time, distance or cultural heritage? How then do we come to know who we are and what is important to us?

Sahara Abedin’s new drama ‘gitanjali,’ which will debut April 26-30 in the A.E. Hotchner Studio Theatre, explores the various tensions between the American-born title character and her Indian-born mother, Meera. Gita, as she is known, has been estranged from her mother since her father’s death seven years ago and Meera’s subsequent return to India. Now in her early 20s, Gita is surprised when Meera turns up at her apartment for an unexpected visit.

“It’s a strained relationship—

even growing up, Gita was closer

to her father,” Abedin noted. “When he died, her mother returned to India, and Gita was left to reinvent herself. In many ways she’s still dealing with those losses. She’s still trying to figure out who she is and what she’s going to be.”


ing Gita’s boyfriend, Ravi, who hits it off with Meera. “She and Ravi don’t have the same sort of history between them, which makes it easier for them to relate simply as people,” Abedin explained.

Through ‘gitanjali’ is Abedin’s first full-length drama, the two have collaborated and accomplished in the short fiction


Produced by Ravi Desai, the Hilltop Campus (www.wustl.edu/mc) and the St. Louis Indian Association (www.stlindians.org), the play runs April 26-28 and at 3 p.m. April 29 and 30. For more information, call 935-6543.

Nastaran Ahmadi stars as Gita and Nick Choksi as Ravi in Sahara Abedin’s family drama ‘gitanjali.’ The production, winner of the 1999 A.E. Hotchner Playwriting Competition, debuts April 26-28 and April 29 and 30.

Film

Thursday, April 13

3 p.m. Filmbee Free Focus Diversity Series: "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.

Friday, April 14

7:30 p.m. and midnight, Filmbee Free Focus Diversity Series: "Victoria." Also April 22, 29 and May 6. 935-5800.

Monday, April 17

4 p.m. Lunch and Learn Film Series: "The Inner Circle." Room 217 Ridley Hall. 935-5175.

Exhibitions

"Master of Fine Arts Thesis Exhibitions." April 1 through May 7. Reception April 1, 4 to 6 p.m. 935-6650.

"Architecture's Design Awards Graduates Exhibit." April 22 through May 5. Dr. Rush Hall. 935-6650.


Lectures

Thursday, April 13

9 a.m. Genetics Lecture: "The Behavioral Neuroscience of Exercise." Faust, L.W., Dr. D.E. Jones, Department of Neuroscience, Department of Physiology and Neuroscience, Department of Physiology and Neuroscience, Department of Neuroscience.

10 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.

Monday, April 17

4 p.m. Health Sciences Library Lecture: "The Inner Circle." Room 217 Ridley Hall. 935-5175.

Wednesday, April 19


Friday, April 21

9:15 a.m. Pediatric Grand Rounds. "Genetic Counseling: Perspectives From India." By Dr. S. Sreenivasan, senior medical officer, TCS Genomics and Director of Genetics, TCS Genomics.


Monday, April 17

4 p.m. Filmbee Free Focus Diversity Series: "The Tale of Despereaux." 935-5983.

Tuesday, April 18

9:15 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.


Wednesday, April 19

11 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.


Thursday, April 20

9:15 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.

10 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.

11:30 a.m. "The Tale of Despereaux" (Dir. Rob Lieber) 935-5983.
Women netters win

The women's tennis team extended its streak as the Bears finished the dual-match portion of the regular season by winning their 11th straight, and ninth straight matches, 7-2 over Eastern Illinois University in an 11 a.m. match on April 4 and 6-2 over Wheaton College (III) on Saturday, April 8. The Bears’ junior, Julia Riley, earned a victory with a 6-3 win at No. 6 singles.

Men win fifth

The men's tennis team stretched its winning streak to five matches with a 7-2 win over the University of Wisconsin-Oshkosh April 8. On April 6, 1-6, 6-1 winner at No. 1 singles and teamed with Max Schlaber for an 8-6 win at No. 3 doubles, Mike and Paul Doyle won at No. 2 and No. 4 singles, respectively, and teamed up at No. 1 doubles for an 8-1 win. Baseball sweeps

The baseball team has a four-game winning streak following a 14-12, 13-3 doubleheader sweep of Valparaiso University April 4. WU led 1-4 in the bottom of the third and more than two innings in the bottom of the seventh before WU ended the game with a double play. Jon Card picked up his third win of the season on the hill and John O'Connell recorded his first save of the season. Freshman pitcher Lorne Youngman was the star of the game as he pitched a complete game, two-hitter and picked up his second win of the season. He gave up four runs, three earned, on 10 hits with two walking and striking out five.

Simply the best

The towering banner says it all as the Washington University women’s basketball team is held for its third consecutive NCAA Division III national championship at a Bowles Plaza pep rally Friday, April 7. Senior Ali Ashfikar, who won the Joskyans Trophy as Division III basketball’s premier student-athlete, received a check during the ceremony from Joskyan representative Mark Henricksen for the university’s general scholarship fund. Chancellor Mark S. Wrighton joins the crowd in applauding Ashfikar’s accomplishments.

Friday, April 21


1:45 p.m. Cell biology and neurobiology lecture. Room 361, third floor south, Medical Sciences Research Bldg. 362-8983.

4 p.m. Anatomy and neurobiology lecture. Room 361, third floor south, Medical Sciences Research Bldg. 362-8983.

Music

Saturday, April 16

12:15 p.m. Faculty recital. Music of Bach, Baroque. The Kingsbury Ensemble. Lounge, Ridgley Hall. 935-5581.

Sunday, April 16

8 p.m. Art history and archaeology concert. Classical music. Sweigert Hall. 935-9410.

On stage

Friday, April 14

8 p.m. OTAURI Serlo Series. "MOSFETs in Physics and Engineering: The Future of Electronics." Special programming at 7 p.m. and 11 p.m. April 16 - 2 p.m. April 17. Cost: $7.50. Edison Theatre. 350-6654.

Sports

Saturday, April 15

1 p.m. Baseball vs. Fontbonne College. Softball field. 905-2021.

Friday, April 21

2 p.m. Women's softball vs. Mo. SISA State Champions. Softball field. 905-2021.

Saturday, April 22

1 p.m. Men's basketball vs. DePaul U. Ridley Hall. 905-2021.

And more...

Thursday, April 13


Friday, April 14


Saturday, April 15


Monday, April 17

1 p.m. Israeli-Palestinian dialogue. "Humanizing the Conflict: Palestine and Israel." Four specialists on Middle Eastern issues will speak. Co-sponsored by the Middle East Awareness Committee and the J. Brown Center. Meier Lounge. 935-7177. See story on page 5.

"Betrayal of the American Woman" is topic of Assembly Series talk

Pulitzer Prize-winning author Susan Faludi will give the talk.

Women’s Society Assembly Series

Assembly Series

Who Susan Faludi

Where Graham Chapel

When and at what time 11 a.m. April 19

Admission Free and open to the public.

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Softball wins two

The softball teams continue to roll as the Bears picked up two more wins with a doubleheader sweep of Illinois College April 6 at home. Freshman pitcher Lia Smith tossed a seven-hit complete game as WU won game one, 8-2; P. Smith allowed no walks and just two unearned runs while striking out five; Illinois College led 1-0 after two innings, but WU scored two each in the third and fourth and added four more runs in the bottom of the seventh. Smith improved his 1-0 to 4-1 on the year with another complete game win in the second half of the twin bill as the Bears went up seven runs and just three—run one—which was erased—while walking one and striking out four.

Runners fifth, sixth

The women’s track and field team finished tied for fifth place and the men’s team took sixth place at the Washington University Invitational April 6. Susan Chou made a provisional qualification for next month’s NCAA championships, winning the 5,000 meters. Teammate Beth Pettersen finished in second; Senior Claudine Baudin earned an automatic bid to the NCAA championships with a fifth-place finish in the 200 meters and a provisional qualification with a fourth-place showing in the 100 meters. Julie Riley earned a provisional qualification after finishing second in the pole vault. On the men’s side, senior Tim Biele qualified provisionally for the NCAA championships with a fifth-place finish in the pole vault.

Monday, April 17

1 p.m. Israeli-Palestinian dialogue. "Humanizing the Conflict: Palestine and Israel." Four specialists on Middle Eastern issues will speak. Co-sponsored by the Middle East Awareness Committee and the J. Brown Center. Meier Lounge. 935-7177. See story on page 5.
The University must have 5,144 parking spaces under an agreement with St. Louis Community College at the corner of Hoyt Drive and the other at the corner of Millbrook and Big Bend Boulevards, said Richard A. Roloff, executive vice chairman. "We need to get started on that project in order to have it ready for students in fall 2001."

The project's four buildings will house about 600 students on the former KENS site. A four-story parking garage with 450 spaces will be constructed nearby, and the garage will make way for a building, possibly the earth and planetary sciences building. The parking is needed to replace spaces lost to construction. The University of Wisconsin and a master's degree, also in humanities, from University College in 1965 and began conducting reactive experiments in inorganic chemistry reactions as a doctoral fellow. In 1967, Lee joined a research group at the University of Chicago and conquered a universal crossed molecule. After being appointed assistant professor at the University of Chicago in 1968, he rapidly made his laboratory the North American leader in inorganic chemistry. By 1974, he was a full professor and significantly expanded his research over the next 20 years. Lee will receive a doctor of science degree.

Liberman began his career at Laclede as an engineer in 1945, after graduating from Yale University with a degree in chemical engineering and serving in the U.S. Army Air Corps. Described by the St. Louis Post-Dispatch as a "corporate executive with a Boy Scout heart," he served in countless ways to make a better St. Louis. Indeed, in 1976, the St. Louis Daily Observer of the Boy Scouts of America conferred on him the Distinguished Eagle Award.

In 1996, the University Libraries has given extraordinary service to the University's medical school community as well — as a life trustee, as a former chairman and vice chairman of the Board of Trustees, and, currently, as a member of a B.D. candy and distribution. In American literature and history, University College in 1965 and began conducting reactive experiments in inorganic chemistry reactions as a doctoral fellow. In 1967, Lee joined a research group at the University of Chicago and conquered a universal crossed molecule. After being appointed assistant professor at the University of Chicago in 1968, he rapidly made his laboratory the North American leader in inorganic chemistry. By 1974, he was a full professor and significantly expanded his research over the next 20 years. Lee will receive a doctor of science degree.

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Jane Aiken is named Carnegie Scholar

Jane H. Aiken, J.D., LL.M., recently was named a Carnegie Scholar in the Pew National Fellowship Program, a role often reserved for fellowship alumni. Aiken, who was named a fellow in the two-year Carnegie Academy for the Scholarship of Teaching and Learning in Menlo Park, Calif., in June, 2000, has been working on "Teaching and Learning in Menlo Academy for the Scholarship of Morality," which focused on the question that teaching interventions most help students to see that their assumptions about the world and about the delivery of justice are not generally shared among the clients they serve and that the assumptions separate but related disciplines. The study of law should encompass teaching students how their perspectives affect their vision-making and ultimately the delivery of justice in the legal system.

Aiken plans to further develop and test this "transformational learning theory" through ongoing efforts to create collaborations between law and social work students in the EDMOW joint-degree program and the law school's Civil Justice Clinic. "The clinic and joint-degree courses will provide a wonderful laboratory for me to compare ways to create 'disorienting moments' in which students can examine their assumptions about the world and about the legal approaches of law and social work," Aiken said. "Such moments will enable students to better understand how to pursue the best outcome for their clients.

Seven graduate students earn research honors

Seven Washington University graduate students took home honors from the fifth annual Graduate Student Research Symposium held April 1 in Holmes Lounge.

First and second prizes went to students in each of three categories — sciences, social sciences and humanities. First-place prize winners received $100, and second-place winners received $50.

The winners, their departments and the titles of their presentations are:

**Sciences:**
- First: Melanie L. Leimer, doctoral student in molecular biology and pharmacology, for "What Do Neuronal Survival Proteins Have to Do With Breathing? Or the Role of the GDNF Family in the Function of the Cartoid Body?"
- Second: Li Er Chen, a graduate student in pediatrics, for "Laparoscopic vs. Open Surgery for Malrotation With Volvulus".

**Social sciences:**
- First: Julia Hohberger and Tiffany Tibbs, doctoral students in politics, for "Differences in Cancer Fatality by Race and Religious Affiliation".
- Second: Cricklette S. Smith, an assistant professor of sociology, for "Fetal Testosterone and Corticosterone Levels and Behavioral Correlates in a Group of Male Fetal Chimeras".

**Humanities:**
- First: Michael A. Bata, a doctoral student in history in Arts & Sciences, for "The British Zion: Evangelization and Political Philosophy in Britain and the Empire, 1790-1840".
- Second: Monica L. Wright, a doctoral student in Romance languages and literatures in Arts & Sciences, for "The Narrative of Clothing in the Romances of Christine de Troyes".

The symposium is open to all graduate students here and gives participants the opportunity to present their research to other members of the University community. Thirty students made poster presentations.

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DASI

**EE students to launch advanced imager**

remote-control vehicle, to make observations.

EE students are developing a proposal to NASA to include the imager on a future solar mission. The goal is to place the solar system to look back at the Earth in a search for life on the only place we know it to exist. "A way to determine if we know how to find life is to show that Earth can be detected by a spacecraft moving farther and farther away from Earth," Smith explained.

The imager of Earth acquired by the DASI essentially could be considered to be that of another distant planet outside the solar system. While there is no evidence of life, there could be a cause to believe that the planet is similar to Earth. Finally, the launch of the SM-NIM spacecraft is a first step into space, according to the DASI team, said that there's more riding on the SM-NIM rocket than the students' semester grades.

Aiken: "The DASI has not yet been tested for durability under the stress of rocket launching," he explained.

The "class project is the first such test," so, in addition to being an unusual educational opportunity, the project is one that is integral to the space program and NASA's research goals.

The information the DASI obtains on this solar flight will come entirely within from the camera the students are building. Inside, an image will be formed using light-emitting diodes and fiber optics to create an image of pattern during the flight. The DASI camera will get about 100 images of the test pattern.

"We anticipate that the DASI images of the test pattern will remain stable throughout this first flight," said Smith.

"That this class was different from any other class design in that it pulled everything I've learned together, from different sources," Benac said. "It gave you a sense of how things work in the real world. We started from scratch and had everything from research to decision-making, and we had a real deadline. In most design classes it's easy to either go right or wrong with the design, but in this class you couldn't, so you're more on your own in finding the right answer. I learned much more about engineering — including optics and mechanical engineering. It's been a great experience."
Projects bloom in Rose Brower's communications 'think tank'

By TONY FENNERICK

The company also put Brower on the read a lot. By the end of the 1980s, she was logging over 250,000 air miles annually. The job was becoming increasingly difficult to manage along with single-parenting her preschool-aged son. She decided to change careers and made the right thing to do... SEAS needed to develop a clear message about the excitement of engineering at Washington University.

"Hiring Rose Brower in our school was clearly the right thing to do... SEAS needed to develop a clear message about the excitement of engineering at Washington University."