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Exploring the nano-world
University's nanotechnology research booming

By Deborah J. Adler

As the lab of physics professor Rodney S. Ruoff, Ph.D., at Washington University in St. Louis, nanotechnology research is booming. The Ruoff group primarily works with carbon nanotubes. Also pictured is Rodney S. Ruoff, Ph.D., associate professor of physics and head of the nanotechnology research group here.

In the lab of physics professor Rodney S. Ruoff, Ph.D., a research associate pieced together a novel weapon against HIV. Dowdy explained.

MinFeng Yu (left) and Savez Saffarli, both graduate students in physics in Arts and Sciences, use the Hitachi S-4500 field emission gun-scanning electron microscope to obtain and display images of carbon nanotubes. Also pictured is Rodney S. Ruoff, Ph.D., associate professor of physics and head of the nanotechnology research group here.

Business school fellowships set up by alumni couple

By Nancy Belt

A $6.6 million commitment from an alumni couple has established the Leadership Fellows Program, which will provide two-year, full-tuition grants to 15 incoming master of business administration students for the next five years.

The program is sponsored by Donald L. Wood, co-founder of Charter Communications Inc., and his wife, Joyce, owner of Wood and Associates, a management consulting firm, created the fellowship to support exceptional student leaders and to benefit the John M. Olin School of Business.

The program, announced by Chancellor Mark S. Wrighton, offers fellowships to business school applicants who show the highest potential and who are most sought after by Washington University in St. Louis and other top business schools.

"The Wood Fellows will be a cadre of exceptional leadership potential," Dowdy explained.

Lifelong learning Institute offers wide range of courses to devoted following

By Cynthia Georges

Three weeks into the academic session and neither a quiz nor test in sight. The prerequisites? None. Forget credits and credentials. As for degrees and certificates— not applicable.

The requirements for this program are a powerful human desire: intellectual curiosity and a passion for learning.

Welcome to the Lifelong Learning Institute (LLI) at Washington University, where members age 55 years and older delve into topics ranging from Italian opera to Native Americas of the Southwest. In informal, non-competitive environments, peer-led study groups analyze classic literature, evaluate the outer reaches of space and star in the arena of current events.

"By the time we get to a certain age, we have lots of experiences, skills and information to share with others, from both our vocations and personal spheres," said Saul Boyarsky, M.D., J.D., vice chair of LLI and chair of the curriculum committee. "Everyone in the group contributes to an exceedingly democratic and egalitarian enterprise."

Members come from all walks of life and include retirees from business, education, medicine and volunteer sectors, among others. Many, like Boyarsky, a retired professor of urology, hail from the University community.

An annual fall meeting open to the public launches the academic year. Fall, winter and spring terms feature a dozen or more daytime courses, for those daunted by the thought of returning to the classroom andcping with only a workshop away. Instruction in computerized library systems and adult learning theory bring members up to academic speed.

The courses are planned and developed by institute members, who also facilitate the discussions. On occasion, guest speakers visit to share their expertise.

Each study group meets once a week for two hours at the University's West Campus, LLI headquarters, with a membership that exceeds 250, courses fill quickly.

"I am delighted that the Institute has grown and taken hold as it has," said Henrietta Freedman, the organization's founder and a leading volunteer trustee. "We strive for excellence in our educational program and hope to continue our growth in a controlled fashion to mirror that of the University."

In 1995, Freedman and a pioneering group of 25 launched the LLI with three courses. This effort, however, had its beginning more than 20 years earlier, when Freedman returned to the University after raising three children. "Back then, experts thought we would all end up wanting the rocking chair," she recalled.

A course in gerontology spurred Freedman to further investigate the aging process. In the years following, Freedman's developing interest in elderhostel education became a vision shared by University College in Arts and Sciences, which already had been researching existing programs.

An introduction to the Elderhostel Institute Network, of which LLI is now an affiliate, gave Freedman and her colleagues a plan. With the West Campus, LLI headquarters, with a membership that exceeds 250, courses fill quickly.

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Undergraduate tuition and fees at Washington University will total $23,634 for the 1999-2000 academic year, an increase of 5.6 percent above the current academic year, according to Benjamin S. Sandier, vice chancellor of enrollment and financial aid. This total includes a $234 required student activity fee.

The cost increases — along with changes in family financial circumstances — will be offset by students now receiving need-based financial assistance apply for renewal.

For more information on the University's need-based financial aid program, contact Betsy Rogers, B.A., at adams@dosa.wustl.edu.
Diabetic women should exercise caution when trying to get pregnant

By Linda Sage

A paper by a School of Medicine researcher in the June 16 issue of the New England Journal of Medicine suggests that diabetic women who are trying to get pregnant, even just a little, are very closely from that point on, "may be done. So it's very important in order to tell their doctor they have blood glucose fluctuations," Sadler said.

"A lot of diabetic women figure they'll go to the doctor once they get pregnant," said lead author Kelle H. Moley, M.D. "But by that time, the damage may be done. So it's very important in order to tell their doctor they have blood glucose fluctuations," Sadler said.

"A lot of diabetic women figure they'll go to the doctor once they get pregnant so they can be monitored very closely from that point on," Moley said. Moley is a reproductive endocrinologist and assistant professor in obstetrics and gynecology at the University of Washington.

Sadler performs the study independently while she was a postdoctoral fellow in the laboratory of Mike Mueckler, Ph.D., professor of biochemistry and physiology.

"Diabetic women have up to eight times as many malformed babies as other women, and even if their blood sugar levels are under control by the time a baby's organs form, malformation rates are still two to three times higher than normal," Sadler said. "But by that time, the damage may be done." Moley said.

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Writers Center in Arts and Sciences. — will situate the work of University Professor in the Humanities from 10 a.m. to 4 p.m. Jan. 30. The symposium on "The Aesthetics of American contemporaries. abstractionists alongside that of the 1950s. From the Washington University, will speak on "What Can We "International Abstraction: Art of the 1950s. From the Washington University Collection." (Opening reception Jan. 22. 5 l p.m.) Wallingford 9-2525.

Exhibitions

‘Abstraction’ draws on WU collections In the 1950s, Abstract Expressionists such as Jackson Pollock and Philip Guston became the first generation of American artists to gain international recognition. But abstraction did not then become an American avant-garde. European artists continued to create vital work that was both strikingly similar and strikingly different from their American contemporaries.

Major new exhibitions opening at the Gallery of Art Jan. 22

Friday, Jan. 22

7 and 9:30 p.m. Filmboard Feature Series. "Boys on the Side." (Also Jan. 23, same time.) Cost: $3 first visit; $2 subsequent visits. Room 100 Brown Hall. 935-5983.

Greenhouse Surprises

Walter Broecker here; Assembly Series offers diverse lineup


Films

Friday, Jan. 22

4 and 4:30 p.m. Filmboard Feature Series. "Get Shorty." (Also Jan. 23, same time.) Cost: $3 first visit; $2 subsequent visits. Room 100 Brown Hall. 935-0980.

Alexander Calder's "Bayonets Menacing a Flower" (1945). "Washington University is fortunate to have one of the finest university collections of mid-20th-century abstract art in the United States," noted Amanda Bersold, curator for the Gallery of Art.

University Events

Spaceballs • Evolution • Public Service • Master Class • Family Night

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March 10: Historian Douglas Watson will deliver the Thomas D. Fulteigh Lecture, titled "Herndon’s Dilemma: Abraham Lincoln and the Privacy Issue." Watson is a professor emeritus of English and co-director of the Lincoln Studies Center at Knox College in Galesburg, Ill.

March 17: Daniel Schacter, chair of Harvard University’s Department of Psychology, will deliver the second lecture in the mind/brain series, titled "The Fragile Power of Human Memory."" March 24: Labor activist and United Farm Workers co-founder Dolores Huerta will deliver the annual Women’s Week Lecture, titled "The Struggle Continues." March 31: The annual Chimes Lecture will be delivered by Charles Johnson, author of "Middle Passage" and "Dreamer," whose address is titled "Dreamer: Constructing Martin Luther King’s Legacy in Fiction." Johnson is the Pollock Professor in Humanities at the University of Washington.

April 1: David Konstan, Washington University’s John and Roberta Rinehart Professor for the Study of the Mind/Brain Connection, will present a lecture titled "The Mind’s Eye: The Role of Vision in Cognition." April 4: Konstan is the John Bowkelk Distinguished Professor of Classics and the Humanities.

Walter Broecker here; Assembly Series offers diverse lineup


Churchland is a professor of philosophy at the University of California at San Diego.

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Music
Sunday, Jan. 24
3 p.m. Music Dept., faculty recital. Elizabeth MacDowell, cello, and Hugh MacEachern, piano, Skidmore Hall 90-074.

Performances
Friday, Jan. 22
8 p.m. OVERTONES! Series performance. Providence Medical Center's Dr. Nicholas A. Pinet. Steinberg Aud. 534-6543.

Friday, Jan. 29
8 p.m. Series performance. "Center for the Book" with two choreographers: John S. 30, same text at 20, 7:20 p.m. 535. Edie Theatre. 654-6543.

Miscellany
Thursday, Jan. 21

Friday, Jan. 29
8 a.m. Dave Annual Elley Society Family Night. WU vs. U. of Rochester in men's and women's basketball games (buffet, 5:30 p.m.). Clowns for the children and rap deejay, Defcomb. For reservations, call 534-5591.

Saturday, Jan. 23

Wednesday, Jan. 27

Wednesday, Jan. 27
8 p.m. School of Law. "Public Interest Law Speakers Series." "Diverse Roles for FGF: Evolutionary, Structural, and Functional Aspects of Fracture Healing."

Sports
Friday, Jan. 22
6 p.m. Women's basketball from vs. U. of Chicago at 2-1.

Saturday, Jan. 24
1 p.m. Women's basketball from vs. Case Western Reserve at 1-0. Women's basketball team completes a four-game home stand this weekend.

Friday, Jan. 29
6 p.m. Men's and women's swimming/ diving vs. Case Western Reserve.

William Webster to give law lecture
William H. Webster will deliver a lecture on "Public Service in the Private Practice" at 3:15 p.m. Wednesday, Jan. 27, in the W. L. Hoffman Grinnell Student Commons, Anheuser-Busch Hall. The lecture is sponsored by the University's Law Public Interest Law Speakers Series for access to Justice, Social Responsibility, and the Public Lawyer.

Men's basketball tied for UAA first place
One of the hottest teams in the University Athletic Association (UAA) wins in both of its last nine games, the Bears are in first place with a four-game home stand this weekend. The Bears are 8-6, 2-1 UAA. Two other teams face similar streaking teams in the University of Rochester and Case Western Reserve University. The Bears need to win both games to improve their record to 3-1 on the new year and to maintain their place as a possible contender for the championship.

Men's and women's swimming/diving
The Bears hold off Brandeis in the weekend finale. Six players netted double figures in points, with sophomore point guard Rick Ratton leading the way with 18 points.

Women hoopsters aim to extend win streak
The University's top-ranked women's basketball team looks to extend its school-record 22-game win streak by playing a pair of UAA games at home this weekend. The Bears face two similar streaking teams in the University of Rochester and Case Western Reserve University. The Bears kept the best start in school history going as they improved to 14-0 overall and moved into first place in the UAA with a 3-0 record.

Premiere
Famed dancers coming to Edison
By LIAM OTTEN
The legendary Trisha Brown will demonstrate why she's one of today's foremost dance pioneers when the Trisha Brown Company comes to the University's Edison Theatre Jan. 29-31 for trio of performances co-sponsored by Dance St. Louis.


Tickets are $25 for adults. Call 534-6662 for discount tickets. Tickets are available through the Edison Theatre Box Office (935-6543), Dance St. Louis (534-6662) and Metrotix (534-1111). In conjunction with the performance, Stanford Makishi, a featured dancer with the company, will teach an intermediate-advanced master class in Trisha Brown technique and repertoire for the Dance Program in the Performing Arts Department in Arts and Sciences. The class is open to the public. For more information, register, call Dance St. Louis at 534-1300, Ext. 10.

However, tickets will be on sale from Friday, Jan. 22 to 27, as the Dance Program's 1998-99 Marcous Artist. The Marcus Artist is funded by a gift from Morris D. Marcus, M.D., a dermatologist and professor of dermatology at the University; a school of Medicine; in memory of his wife Margaret, a dancer, teacher and choreographer.

Born and raised in Honolulu, Makishi began his dance training as a child, with concentration in jazz, modern, tap and gymnastics. He attended Harvard University and graduated in 1981 with a bachelor's degree in economics. He joined the Trisha Brown Company in 1992.

Sports Section

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Despite shooting just 39 percent from the field, WU was able to hold off a pesky Brandeis team for a 65-55 win Sunday. The Bears fell 74-55 in Jan. 17, in the Field House, after jumping to a 12-4 lead less than four minutes into the game, WU wasn't able to push the lead to more than 12 and Brandeis kept the game close. The Judges cut the margin to 54-29 with just over five minutes to play as WU couldn't get any closer.

Women tankers beat DePaul
The women's swimming and diving team won both ends of their recent meet with a 152-85 victory over DePaul University Sunday Jan. 17, while the men's team fell to the Tigers, 149-87. The Bears capped a 17-64 decision to Washburn College on Saturday Jan. 16. Lindsay McAdam, Emma Wilkox, Wilmarie Ihliek, Yankee Register and Rachel Hopkins were all double winners for WU as they improved their dual meet record this season to 3-4. Division III Chic Ray picked up a win against Websters with a 98-30 in the one-meter event.
Above are models of carbon nanotubes, rolled sheets of graphite measuring just one nanometer across that can be grown to lengths of meters. Each model is a pristine; the bottom one has been kneaded like a garage door.

Nanoworld

Exploring latest scientific frontier

...gating analogous nanotubes made from boron nitride through a collaboration with William E. Burks, Ph.D., associate professor of chemistry in Arts and Sciences. Both carbon and boron nitride nanotubes are highly useful in electronics and materials reinforcement. They have a tensile strength that is theorized to be more than 100 times that of steel. Flexibility that allows them to be bent and uninked like a hose; and conducting, semiconducting and insulating properties, all the components necessary for electronic circuitry.

But before nanotubes can be used to develop nanotechnology, their potential must be better understood. How much force can a tube withstand before breaking? Can tubes be "stress-loaded" to induce local chemical reaction, which would allow engineers to build links and connections between new materials? Can tubes be transported down the hollow core of nanotubes, transforming the tubes into miniature pipettes capable of dispensing liquid in incalculable volumes?

Answering these questions has required the Ruffo group to adapt existing technologies into new tools and techniques. This past November, for instance, graduate student MinFeng Yu arrived in Ruffo’s group's collabora...
Goodman named associate director of community relations

Suzanne Goodman has been appointed associate director for community relations, according to Pamela Lad, associate professor of government and community relations. Goodman will work with Lokken to continue to build strong relationships between the University and the community, acting as the primary liaison to local community organizations, associations and neighborhood groups. She also will organize and convene campus events and activities that involve and interest the community.

Goodman also will assist in developing and implementing University positions on local issues and represent the University at contacts with local policy makers and community leaders.

Suzanne’s successful endeavors in the St. Louis community have led her to be an asset to the University and will continue to be a great asset to Washington University, according to Bernini. He has been impressed by Suzanne’s dedication to everything she undertakes and her commitment to the University and the St. Louis community.

On assignment

Erik Trinkunas, Ph.D., professor of anthropology in Arts and Sciences, recently spent a month analyzing the preserved collection of early modern human fossils that remain, the 27,000-year-old specimen from the neighboring sites of Dolni Vestonice and Pavlov in the Czech Republic. These rich archeological sites also are known for yielding the world’s oldest ceramics and textiles. This paleoanthropological research with colleagues in the Academy of Sciences in the Czech Republic was part of an ongoing collaboration, which will result shortly in a monographic treatment of these fossils.

Cynthia Weese, Ph.D., dean of the School of Architecture, recently attended the National Association of State Schools of Architecture (NASSA) conference in Washington, D.C. The national conference focused on the intertwined responsibilities of architecture and architectural education within the layers of community plans, connecting university communities and outreach efforts in the schools’ respective cities.

Of note

The School of Architecture recently received a major grant from the American Institute of Architects’ Regional Awards Program. The conference theme was “Doing It Right: Celebrating Architecture” and included many areas of quality assurance and peer review. St. Louis neighborhood tours highlighted past development successes and a presentation by the Chicago and St. Louis region design awards.

Speaker of the Week

John Drobak, J.D., professor of law, presented a paper, “A Cognitive Science Perspective on Legal Incentives,” at the annual conference of the International Society for New Institutional Economics, held in Paris. He also was elected secretary of the society and to its Board of Directors.

Karen Tinkham, Ph.D., senior research scientist in the University’s Earth and Planetary Sciences in Arts and Sciences, recently gave several presentations in Europe. She presented an invited review about student formation at the 1995 International Astronomical Union Symposium on Asymmetric Giant Branch Stars in Montpellier, France, and a seminar at the University of Montpellier. It included a talk at the symposium “Recent Trends in Cosmochemistry” at the Max Planck Institute for Chemistry in Maina, Germany, and a talk at the workshop “On The Origin and Composition of Cometary Material” at the International Space Science Institute in Bern, Switzerland.

Guidelines for submitting copy:

Send your name, complete title, the names of all other authors, and your school affiliation to the editor of your college or university newspaper. Include a brief abstract of your research. Make the report factual and objective. If possible, use the past tense. The text must not exceed 300 words. For information, call 359-2520.
Turning energy and expertise to help for children

From the poor of Latin America to kids with HIV, Kathleen McGann has made helping others her career

By DIANE DUKE WILLIAMS

Kathleen McGann, M.D., examines Anaray Sama, 6, of Somalia, who has spent most of his short life in a Kenyan refugee camp. He is being treated for fever, Giardia and whipworm infections.

Washington People

Kathleen A. McGann, M.D., rises to the challenge of pediatric AIDS, providing care for children infected with HIV. She is an expert on the epidemiology of the disease and on transmission of HIV and zeroing in on the role of the placenta.

During summers in high school and college, she traveled to various Latin American countries as part of a public-health program that provided immunizations and dental hygiene to children. Today, as an infectious disease specialist, she treats children with a multitude of diseases—from pneumonia to tuberculosis to AIDS.

"If I could imagine the perfect person to work with, it would be close to Kathleen McGann," said professor of pediatrics Gregory A. Storch, M.D., who with McGann treats most of the HIV-infected children at St. Louis Children's Hospital. "She has tremendous enthusiasm about medicine and a great love for her patients, and I think her patients sense that. She's a very positive, upbeat person.

Penelope G. Shackelford, M.D., professor of pediatrics, said McGann's ability to work with physicians who treat children who have the disease, among many others. "She's a very positive, upbeat person. She always had a sense that she brings something to the table. She's a role model, she added.

Deciding on medicine

Because McGann's father worked for an airline, the family traveled extensively on passes. During a trip to Spain when McGann was 14, she announced to her mother that she had decided to become a doctor and find a cure for the disease that wanted to become a physician. She lived most of her childhood in Lakewood, Colo., a small town west of Denver, in a close-knit Roman Catholic family. Her father was a commercial pilot who also was involved in the Air Force Reserve, and her mother stayed home with McGann and her younger brother and sister.

In addition to raising her children, McGann's mother did all kinds of volunteer work and still is a ski instructor for the handicapped. "She just had a very loving attitude toward raising us. She's an amazing person," McGann said.

When McGann was young, her father, who always stressed integrity in dealing with others, also was a great role model, she added.

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Penelope G. Shackelford, M.D., professor of pediatrics, said McGann's ability to work with physicians who treat children who have the disease, among many others. "She's a very positive, upbeat person. She always had a sense that she brings something to the table. She's a role model, she added.

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