Ancient recipe for Earth's crust unchanged over 3.8 billion years

When Allen Gurney was a senior in high school in Marion, Ind., he visited Washington University twice. "It was such a great experience that I knew I wanted to come here," he said. Now a senior at Washington University and chair of the Student Activities Committee (SAC), Gurney is busy this month organizing current student involvement in April Welcome activities. At any time on any given day during the month, current students are leading prospective students on campus tours, joining them for lunch, welcoming them into their residence hall rooms, introducing them to faculty and taking them to campus events and activities. "The sense of community is kind of unique," Gurney said. "Hundreds of students have signed up to host, so we start walking around with April Welcome buttons, faculty meeting with the prospective students. There's some real teamwork happening." Leading campus tours is one of the current students' most visible roles. Several times a day, one can spot a "SAC-er" walking backward across campus guiding a large group of prospective students and their parents. The students conduct 36 tours a week during the month of April. The guides say they field some of the same questions on almost every tour. "Everyone phrases it differently but they all want to know how stressful it is to be a student at Washington University," said Gurney. "They've heard Washington University is ranked number two in stressville with a lot of academic pressure." Current students are showing April Welcome visitors that there's more to campus life than cram sessions and examinations. They are involving them in a wide variety of activities that reveal the less academic side of Washington University. This week, for example, prospective students can go to a St. Louis Cardinals baseball game on Monday, visit an exhibition of student art on Tuesday, sample local food at "Savor St. Louis" on Wednesday, attend the chancellor's 68th birthday party on Thursday, and participate in a discussion on "Life Outside the Classroom" on Friday. Each day in April also is peppered with academic activities, including meetings with deans and faculty, engineering lab tours, economic market simulations, and more. Prospective students also have the opportunity to meet with representatives from the offices of Financial Aid, Housing and Undergraduate Admission. "Because there's something going on every day during the month of April, we didn't have to organize any special programs to show off Washington University," Gurney said. "At this point, they know the academics are great. We're trying to show them why Washington University is a cool place to spend four years."

This week the University is welcoming about 175 prospective admitted students. Leading campus tours is one of the current students' most visible roles. Several times a day, one can spot a "SAC-er" walking backward across campus guiding a large group of prospective students and their parents. The students conduct 36 tours a week during the month of April. The guides say they field some of the same questions on almost every tour. "Everyone phrases it differently but they all want to know how stressful it is to be a student at Washington University," said Gurney. "They've heard Washington University is ranked number two in stressville with a lot of academic pressure." Current students are showing April Welcome visitors that there's more to campus life than cram sessions and examinations. They are involving them in a wide variety of activities that reveal the less academic side of Washington University. This week, for example, prospective students can go to a St. Louis Cardinals baseball game on Monday, visit an exhibition of student art on Tuesday, sample local food at "Savor St. Louis" on Wednesday, attend the chancellor's 68th birthday party on Thursday, and participate in a discussion on "Life Outside the Classroom" on Friday. Each day in April also is peppered with academic activities, including meetings with deans and faculty, engineering lab tours, economic market simulations, and more. Prospective students also have the opportunity to meet with representatives from the offices of Financial Aid, Housing and Undergraduate Admission. "Because there's something going on every day during the month of April, we didn't have to organize any special programs to show off Washington University," Gurney said. "At this point, they know the academics are great. We're trying to show them why Washington University is a cool place to spend four years."

Carnival benefits inner-city girls' program

Proceeds from this year's Thurtene Carnival may help young girls reach their dreams. The April 23-24 Thurtene Carnival will benefit the girls' program of the Mathews-Dickey Boys' Club in north St. Louis. More than 100,000 people are expected to attend the nation's largest and oldest student-run carnival, which is sponsored by Thurtene, the junior honorary. The event will be held from 11 a.m. to 8 p.m. both days on the campus parking lot at Millbrook and Skinner boulevards. Chancellor William H. Danforth will speak during opening ceremonies, which begin at 10:45 a.m. on April 23. There is no admission fee. The Mathews-Dickey boys' program began in 1966. The program strives to develop the athletic, educational and cultural potential of girls ages 6-18 from the inner city. About 2,500 girls participate in the program, which offers after-school and weekend activities, such as educational, personal and career development seminars, and sessions on computer literacy, drama, ballet, tap, jazz and modern dance, cheerleading, choir, fine arts, swimming, pompon, basketball and softball.
Low blood pressure may slow kidney disease progression

Unlike most previous studies, the investigators found no significant benefit from reducing protein consumption, Klahr said. They also found no benefit from reducing blood pressure in the study group as a whole. However, when the researchers considered each type of kidney disease separately, they found that low blood pressure significantly slowed disease progression in patients who had glomerular kidney disease and significant loss of protein in the urine. This category accounted for about 25 percent of kidney disease cases. The protective effect of low blood pressure was particularly strong for African Americans and for patients who had moderate disease and protein in the urine, Klahr said. There were no apparent side effects from either intervention, he added.

"It is important for the internist and general practitioner to be aware that particularly in these glomerular disease patients, blood pressure should be controlled," Klahr said. "And the control most likely will have to be below the pressures that were considered adequate before — to about 120/80 or 125/75, instead of blood pressures in excess of 140/90 that we considered before to be satisfactory." Animal studies conducted over the past several decades suggest that restricting protein and lowering blood pressure could slow down kidney disease progression, Klahr said. Most human studies have suggested that restricting dietary protein is beneficial, especially for people with advanced disease. But many of these studies were inconclusive because of flaws in study design, he said. Few studies have looked at the effect of lowering blood pressure. "This was the first large prospective trial in which patients with kidney disease were randomized and a group served as a control," Klahr explained.

Patients in the current study with moderate disease had roughly 20 to 40 percent of normal kidney function; advanced cases had less than 10 percent of normal function. Those with moderate disease were assigned to either a diet that reduced protein intake to 1.2 grams per day, consuming 1.3 grams and 0.58 grams of protein per kilogram of body weight, respectively. Patients with advanced disease followed the low-protein diet or a very-low-protein diet, consuming 0.58 and 0.28 grams per kilogram of body weight, respectively. The investigators used medications as needed to maintain desired blood pressures. The portion of patients in the low blood pressure group maintained levels of 125/75 to 130/75. All of the remaining patients controlled blood pressure to the levels recommended for cardiovascular health — about 140/90 or slightly below this level. The study provides the first evidence that individual forms of kidney disease respond differently to the same treatment, Klahr said. "We also encountered some patients who did not show any evidence of progression in any form of kidney disease," he added. "It has been said in the medical literature that once you get a certain decrease in kidney function, the disease is going to progress no matter what you do. This study shows that this cannot be the case for all patients." Based on the study results, the National Institutes of Health recently gathered a panel of 100 kidney disease experts to formulate recommendations for the study data. "The task of this committee will be come to be with recommendations for dietary manipulations and blood pressure control," Klahr said. The study's data also should help these experts develop guidelines concerning various forms of kidney disease respond to treatment, clarify differences among patient groups and formulate research that might predict progression rates, he said.

Most chronic renal diseases worsen progressively throughout life. End-stage patients, who have less than 5 percent of normal kidney function, need dialysis or a kidney transplant to survive. Roughly 165,000 people in the United States were being treated for end-stage renal disease in 1990 at a cost of more than $7 billion, according to the U.S. Renal Data System. Progression of kidney disease by slowing kidney disease progression could therefore have a major impact on public health and healthcare resources. — Ail Leistner

Tension builds as medical students open envelopes with the results of their residency match. Marc Bouatuary, left, will go to the State University of New York Health Sciences Center in Syracuse to train in general surgery. Marc Bodeheimer, center, will train in ophthalmology at the University of Tennessee in Chattanooga. Kim Allman, right, will go to Stanford University Hospital in Stanford, Calif., to train in pediatrics.

AIDS Clinical Trials Unit to test three new drugs

The AIDS Clinical Trials Unit at the Washington University School of Medicine is preparing to test three new classes of investigational drugs to determine their effectiveness in treating HIV infection.

Researchers in the AIDS Clinical Trials Unit hope to enroll 80 to 100 people infected with HIV in studies of each of the new drugs. Participants will receive free medical care and medication for HIV infection during the study.

The new drugs appear to have fewer side effects and may prove to be less toxic, and William Powless, M.D., director of the AIDS Clinical Trials Unit. Though it is too early to predict whether the drugs will be effective in disarming the HIV virus, Powless said he is excited about the prospect of testing new drugs.

Powless and other AIDS researchers are especially excited about a new class of drugs called protease inhibitors, which are being tested in St. Louis for the first time. The drugs work by inhibiting the action of an enzyme called protease. The enzyme is essential in making the HIV virus infectious, but they evaluated patients for an essential in making the HTV virus infectious.
Baum prescribes activity for disabled

Carolyn Baum, Ph.D., director of the Program in Occupational Therapy at Washington University, advised students to exercise regularly to improve their quality of life. She also emphasized the importance of maintaining a positive attitude and seeking support from others.

Baum's research focuses on the benefits of exercise for individuals with disabilities. She has published several articles on the topic, including one that was published in the Journal of Applied Rehabilitation.

"We're one of the top science-based OT programs in the country. But it is not a time to rest on our laurels."
Tuesday, April 19
7 p.m. Chinese Film Series. "In The Wild Mountains." Free and open to the public, unless otherwise noted.
Tuesday, April 19
7 and 9:30 p.m. Filmboard Feature Series. "Berlin: Symphony of a City." (1927, D.W.) and "Seven Days to Remember" (1960), both in Czech with English subtitles. (Also April 21, same times.) Room 100 Brown Hall Cost: $3.
Friday, April 22
7 and 9:30 p.m. Filmboard Feature Series. "Kapitanskaia dochka (Captain's Daughter)." Directed by Sergei Eisenstein, 1928. Free and open to the public, unless otherwise noted.

Calvörn
April 14-23
Performances
Thursday, April 14
8 p.m. Hilll Foundation student perform-
ance. "The Trial of God," a universal explo-
ration of faith and injustice. (Also April 16 at 9 p.m. Cost: $5 for the general public, with student and faculty discounts. St. Louis Hillier Center, 6500 Forsyth Blvd. 726-1177

Friday, April 15
8 p.m. Concert of music on courtly love.
"Amour Courtois: The Art of the Trouba-
der" and are encouraging the visitors to call
for registration. Cost: $10 for the general public, WU faculty and staff; free for students.

Saturday, April 16
3:30 a.m. DInner symposium. Features
teach how to recognize and assist victims of domestic violence. Lunch included for pre-
registered guests. Cost: $10 for the general public, WU faculty and staff; free for students. 

Music
Thursday, April 14
8 p.m. Concert of music on courtly love.
"L'Amour Courtois. The Art of the Trouba-
der and Trouvère" the 
Newberry Contest, an early music group from Chicago's distin-

Friday, April 15
7-10 p.m. Office of Continuing Medical Education seminar. "The Use of Antipsychotics in Schizophrenic". The Ritz-Carlton Hotel, 100 Carondelet Plaza. For cost and registration information, call 362-6893.

Sunday, April 17
3 p.m. Wind Ensemble and Chamber Winds concert. Performance directed by Dan
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calls to answer questions, solve prob-
lems and not projects students in touch
with admission officials any time of the day or night.

Despite the hectic pace, Gurney said
April is his favorite time on campus.

Student, alumni fashion designs
range from practical to exotic

To determine what busy women look for in fashion, Singleton invited a group of professional women to fashion tea last fall to answer questions about their ward-
robe requirements for the upcoming spring. Singleton took the information and pre-
pared it as a design problem to local alumni of the fashion design program. The alumni designed fashions for these women and the students made them. The fashions will debut at the event.

An additional feature of the event will be a "marketplace" of individual student boutiques. Student designers will be on hand to discuss their sketches and designs. This year's event was organized by a 35-
member committee of community volun-
ters, chaired by Susan Block, a 1976 graduate of the fashion program. 

The fashion show is sponsored by the School of Fashion and Design and the Arts Productions of St. Louis. 

For more information or to buy tickets, call 935-6412.

Sports
Baseball
Last Week: MacMurray 5, Washington 4; Washington 9, MacMurray 7; Washington 11, Maryville 2
This Week: 2 p.m. Wednesday, April 13, vs. Missouri Baptist College, Kelly Field; 1 p.m. Sunday, April 17, at Blackburn Col-
lege, Carlinville, Ill.; 2 p.m. Monday, April 18, vs. Principia College, Kelly Field 
Season Record: 16-12-1
Washington's top two hitters — sopho-
more Dane Gluek, Mountain Home, Ark., and junior Bob Wallace, Cary, Ill. — were named to the University Athletic Association (UA) all-tournament team.

Men's Tennis
Recent Matches: Washington 6, Principia 1; Albright 6, 0; St. Louis University 7, 1; Otterbein 7
This Week: 3 p.m. Thursday, April 14, vs. St. Louis University, Tau Tennis Center; Friday-Sunday, April 15-17, UA Champi-

Women's Tennis
Last Week: Washington 7, Wheaton 2; Washington 6, Principia 0; Washington 7, Otterbein 1
This Week: Friday-Sunday, April 15-17: UA Championships, Doubletree Hotel & Confer-
ce Center 
Season Record: 11-2

Men and Women's Track/Field
Last Week: at Greenville College Invita-
tionals: Men 1st of 8. Women's Finals: 2nd of 8
This Week: 10 a.m. Saturday, April 16, at Arkansas State Invitational, State Univer-
sity, Ark.

Former national gallery director delivers lecture
J. Carter Brown, who directed the National Gallery of Art in Washington, D.C., for 23 years, will deliver the Eugene J. Mackey 
Jr. Lecture at 8 p.m. Monday, April 19, in Steinberg Hall Auditorium. Brown's talk, which is free and open to the public, is
titled "Dreams Design - Question: Woman's "Windyland" 1936-1938."
Brown is director emeritus of the gal-
lery. He was appointed assistant to the
director in 1961 and was named director in 1971. He became director emeritus in 1992.

Current, prospective students interact — from page 1

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Men and Women's Track/Field

Luxembourg's birthday bash features student
performers and free food at 6 p.m. Monday, April 25 at the U.

The 65th annual Washington Univers-
ity fashion show, "Real Fashions for Real People, Mostly," will be held at 6:30 p.m. April 26 at the Univer-
sity's West Campus facility, 7501 Forsyth (at Jackson).

The fashions will range from the prac-
tical to the exotic. The event begins at 6:30 p.m. with cocktails. The formal, salon-style fashion show will begin at 7:30 p.m. and a recep-
tion, catered by Cafe Provencale, will follow at 8:30 p.m.

The show features designs by 12 seniors and five juniors. Two national scholarships, one from the Kellwood Corp. and one from Lord & Taylor, will be awarded, as well as several design prizes from local companies.

The show also features works designed by alumni of the fashion program. The fashion industry is increasingly designing for the fashion minority, said
Jenchi Singleton, head of the fashion design program. He wanted to address the fashion needs of real people, "not people who just walk down the fashion runway."

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sity, Ark.
The ever-popular Stuff-A-Volkswagen contest was held April 8 outside The Umrathskeller (The Rat). The group that stuffed their Volkswagen the fastest won an engraved silver replica of the Asian Student Union's pineapple trophy. The contest won the contest at 12:23 seconds. The contest is one of many events held in conjunction with Thurtene Carnival.

Increased participation leads to fresh ideas for Thurtene Carnival — from page 1

T
twenty-one St. Louis-area athletes will be the centerpiece of a new dance work, "Out of Season," that is being created by choreographer David Dorfman. The athletes and Dorfman's six-member company will perform the work together as part of a concert by David Dorfman Dance at 8 p.m. April 22 and 23 and 2 p.m. April 24 in Edison Theatre.

David Dorfman Dance is co-sponsored by Edison's "OVATIONS!" series and by St. Louis University. The athletes are from some of the institution's most accomplished programs, including those in the health sciences, engineering, the arts and sciences, and by Dance St. Louis. The athletes and Dorfman's six-member company will perform the work together as part of a concert by David Dorfman Dance at 8 p.m. April 22 and 23 and 2 p.m. April 24 in Edison Theatre.

Dorfman's work is noted for its risk-taking, often bone-crunching choreography, influenced by his years as a serious athlete and his profound interest in the human condition and transportation. Even at their most abstract, Dorfman's dances have an emotional core. As expressed by a critic for the Boston Phoenix, "David Dorfman makes rich, textured dance out of the grime of friction and land on a nerve."

Tea tickets are $20 for the general public; $15 for children, senior citizens and Washington University faculty and staff; and $30 for Washington University students. For tickets and more information, call the Edison box office at 935-6543, Dan St. Louis at 534-5622 or Metrox at 534-1111.
For The Record

Engin D. Akarli, Ph.D., associate professor of history, received the 1993 prize for the Best History Book by a Recent Resident from the Missouri Conference on History. He was recognized for his book titled The Early Longshoremen. 1861-1920. He also presented a talk on "Abraham's Oil" at the University of Dayton. 

For The Record contains news about a wide variety of activities. For The Record is running a series profiling the work of New College faculty.

Carolyn Sanford, Campus Box 1070, or 724-524 University of California, Berkeley, CA 94720-1070. Items must not exceed 75 words. For information, call Sanford at 935-5243.

The School of Law Trial Team won third place honors at the National Trial Competition recently held in Dallas. The team received a grant to participate in the competition. As a result of winning the competition, the team will be represented in the national competition. The award will be presented at the national competition. The team will be represented in the national competition.


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Medical Campus

The following is a partial list of positions available at the Medical School. Employees who are interested in submitting a transfer request are encouraged to discuss their areas of interest with their supervisors or the Human Resources Department of the medical school at 940192 or to request an application. The medical school does not discontinue employment for any reason, and at least six semester hours of additional social work that apply to the critical unit to work within therapy. Will be doing case management and intervention in family therapy.

Medical Research Technician

Bachelor's degree, preferably in the biological sciences, chemistry or the physical sciences; experience with laboratory and computer applications. Clinical tests required.

Value Student MSW

Bachelor's degree in social work or ACSW licensed social worker; ability to identify the critical unit within therapy. Will be doing case management and intervention in family therapy.

Medical Research Technician

Bachelor's degree, preferably in the biological sciences, chemistry or the physical sciences; experience with laboratory and computer applications. Clinical tests required.

Value Student MSW

Bachelor's degree in social work or ACSW licensed social worker; ability to identify the critical unit within therapy. Will be doing case management and intervention in family therapy.

Older remnants of early crust studied – from page 1

"We think that the Iowa samples in part record the evidence for a very ancient volcanic island arc," said Dynek. "The only remnants of that land form are the sediments. This might fall in line with the belief that, instead of large continents in place billions of years ago, there were great numbers of microcontinents that had yet formed together into large continents. In the case of Madagascar, an island group that had yet to collide and be included into the Earth's surface via plate tectonics. These island groups had yet to collide and be included into the Earth's surface via plate tectonics. This island nation rode out the southeast coast of Africa, was a part of the African continent many millions of years ago."

The samples Dynek and his colleagues studied are what geologists call metamorphic rocks. They are the oldest sedimentary rocks. They formed during volcanic activity, then gradually, over millions of years, de- stroyed through subduction. Subduction is the rock-recycling method whereby one of the Earth's oceans or giant plates descend below the edge of another. This action deforms and metamorphoses the rocks it is built up on the upper plate. Some of the rocks melt and lose their identity, while others are incorporated deeper into the Earth's crust. The "recipe," however, to make the crust that sits on top of the host of chemical elements, and Dynek's analysis shows that the chemical ingredients found in never-germanium rocks are essentially the same as those found in the very old rocks by an analysis of the Earth's earliest rocks. To give some perspective on Dynek's findings, consider that the Earth formed about 4.5 billion years ago and that the oldest identified rocks are approximately 3.9 billion years old. Dynek's analysis shows that continent-building began somewhere in the intervening 600 million years; although it is doubtful if scientists ever will be able to pinpoint the exact time that Earth began its geological history because there is so little of the Earth's early materials left.

'Ordinary kinds' of rocks

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