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ARCHIVES

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Washington University and Monsanto researchers who have found the first evidence of silicon carbide in a primitive meteorite are, clockwise from left: Thomas Bernatowicz, Ph.D., senior research scientist at the McDonnell Center for the Space Sciences at Washington University; Phil Fraundorf, Ph.D., of Monsanto Co. Research Center; Ernst Zinner, Ph.D., and Brigitte Wopenka, Ph.D., both senior research scientists at the McDonnell Center; and Gail Fraundorf (seated), of Monsanto.

Stellar discovery

Silicon carbide found in meteorite predates solar system

Scientists at the McDonnell Center for Space Sciences at Washington University have found the first evidence of silicon carbide in a primitive meteorite — microscopic grains that were formed before the solar system existed.

According to Thomas Bernatowicz, Ph.D., senior research scientist at Washington University and one of the authors of the cover story in the Dec. 24 issue of the science journal *Nature* describing the find, the silicon carbide may provide scientists a link between the early stages of our solar system and stellar systems that predate it.

"The more materials we can peg as pre-solar system, the more accurately we can determine the kinds of materials that were present when the solar system was formed, as well as the stellar sources that contributed to the mix," Bernatowicz says.

Washington University, Monsanto Company and the University of Chicago collaborated on the research. In addition to Bernatowicz, the other authors are Ernst Zinner, Ph.D., and Brigitte Wopenka, Ph.D., both senior research scientists at the McDonnell Center for the Space Sciences; Tang Ming, Ph.D., and Professor Edward Anders, of the Enrico Fermi Institute and Department of Chemistry of the University of Chicago; and Gail and Phil Fraundorf, Ph.D., of Monsanto Co. Research Center in St. Louis.

The Chicago scientists chemically

processed 13 grams of the Murray meteorite that fell in western Kentucky 38 years ago. They distilled a small fraction of residues enriched in the noble gases, carbon and silicon.

The Washington University and Monsanto researchers subjected these residues to an array of sophisticated microanalytical instruments. Zinner measured the isotopes of silicon, carbon and nitrogen in mineral grains with an ion microprobe and found that their abundances were unlike those typical of solar system materials. Wopenka observed a spectrum corresponding to silicon carbide in an optical device called a laser Raman microprobe.

Then Bernatowicz and the Fraundorfs, using transmission electron microscopes, conclusively showed that the crystal structure, or arrangement of atoms, of the grains with the odd isotopic composition was identical to that of silicon carbide.

The key to identifying the silicon carbide as interstellar material older than the solar system is in the isotopic composition of the meteorite material, a sort of atomic fingerprint. (An isotope is a form of an element with a characteristic nuclear composition determined by the number of neutrons in the nucleus of an atom of the given element.)

In the Murray meteorite, Zinner determined that the isotopic composi-

tions of carbon, nitrogen and silicon of the material were anomalous compared to that typically found in the solar system, proof of the silicon carbide's pre-solar origin. The silicon carbide in the meteorite, the physicists say, probably originated in the atmosphere of red giants, enormous stars larger than the sun that already have burned their hydrogen core and are burning helium.

"For years, astronomers have been observing what they thought was silicon carbide in stars with the use of infrared spectrometers," Zinner says. "Because the isotopes of carbon, silicon and nitrogen are present in abundances so different from the usual, and also because there was too much oxygen in the early solar system for silicon carbide to form, the indications are clear that the source for these grains is extra-solar system."

The Washington University scientists believe the silicon carbide they found in the meteorite was formed in or around stars before the formation of our 4.6 billion-year-old solar system. The silicon carbide was expelled from these ancient stars and incorporated into the mixture of gas and dust that eventually collapsed to form the sun, planets, comets and meteorites.

Silicon carbide is very scarce in meteorites. In the Murray meteorite, it is present at the level of only a few parts

Cultural celebration features lecture, international festival

Vine Deloria Jr., professor of law and political science at the University of Arizona, will give the keynote address for Washington University's Cultural Celebration at 11 a.m. Wednesday, Feb. 17, in Graham Chapel.

His lecture, titled "At the Edges of Cultures," is part of the Assembly Series and is free and open to the public.

The fourth annual Cultural Celebration, which will be held on campus Feb. 16-20, is designed to celebrate the diversity of different cultures on campus and in the community. Highlights of the five-day event include an international fashion show, a "Taste of the World" exhibit featuring seven cultures, and a festival offering international items for sale. The events are free and open to the public, unless otherwise noted.

Deloria is the author of numerous books and articles on the American Indian, including the award-winning book *Custer Died for Your Sins*. His most recent book is *American Indian Policy in the Twentieth Century*.

A member of the Standing Rock Sioux Tribe in North Dakota, Deloria has served as executive director of the National Congress of American Indians in Washington, D.C., and is a member of the advisory council of the National Indian Youth Council.

He has taught at the American Indian Cultural and Research Center at the University of California, Los Angeles, and is a member of the editorial board for the center's journal.

Deloria is a board member of the Indian Rights Association. He has served as a consultant to the National Geographic Society on a project titled "The World of the American Indian."

The Cultural Celebration international fashion show will be held at 7 p.m. Tuesday, Feb. 16, in the Simon Hall Auditorium. Clothes from more than 20 countries will be featured at the show, which is a new event.

A coffeehouse at The Gargoyle from 8 to 10 p.m. Wednesday, Feb. 17, will feature a performance by Afi Ama, an African-American dance and music troupe.

From 8 to 10 p.m. Thursday, Feb. 18, a "Taste of the World" will be held in seven rooms of the Women's Building. Participants will be able to travel around the world without leaving campus. Each room will represent a different culture, complete with food, costumes, artifacts and other treasures. The cultures represented at the event will be African, the Indian subcontinent, Malaysia, Germany, Israel, China and Iran.

The festival will be held from 11 a.m. to 2 p.m. Friday, Feb. 19, in the Mallinckrodt Center Gallery outside The Gargoyle. There will be demonstrations and items to purchase, such as food, books, clothes and jewelry. Various international campus and community groups will have booths at the festival.

An international dinner featuring performances by foreign dancers will be held from 5 to 8 p.m. Feb. 19 in Greenstuffs and La Cuisine, Wohl

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Eastman Brass, comprising resident faculty at the Eastman School of Music in Rochester, N.Y., will perform at 8 p.m. Saturday, Feb. 20, at Edison Theatre.

Eastman Brass quintet to perform in Edison

The Eastman Brass, the brass quintet comprising resident faculty at the Eastman School of Music in Rochester, N.Y., will take the stage at Washington University's Edison Theatre at 8 p.m. Saturday, Feb. 20.

The Edison program includes "Music for Brass Quintet," by composer Gunther Schuller; "Gershwin Variations," by Rayburn Wright; and "Canzonets, Madrigals, Catches and

Glees," arranged by the quintet's horn player, Verne Reynolds.

Since its formation in 1964, the Eastman Brass has provided audiences with a varied and imaginative repertoire, ranging from Baroque to German and English music of the late Renaissance.

The ensemble has toured extensively throughout the United States and Canada and has performed in

Israel and Central and South America.

Bob Marsh of the Chicago Sun Times writes, "When I get to heaven, I don't want harps. Give me a brass band like this one."

Tickets to the performance are \$15 to the general public; \$10 for senior citizens and Washington University faculty and staff; and \$7 for students.

To reserve tickets, call the Edison Theatre box office at 889-6543.

1988-89 undergraduate tuition, room and board to increase

Fees for the 1988-89 academic year at Washington University were announced Feb. 9 by Chancellor William H. Danforth.

Tuition will be \$12,450 in 1988-89, while room and board will be \$4,427 for a student living in a double room and using the regular meal plan. For the current academic year, tuition is \$11,400, and room and board are \$4,168. The 1988-89 increases are 8.4 percent over the fees charged for the current year.

"Washington University's costs continue to rise faster than those in the general economy," Danforth said. "Our 'product' is education, which relies heavily on interaction between students and outstanding professors. We could save money by teaching larger classes with fewer faculty, but that is an outcome few would welcome and would not be consistent with what we are trying to achieve. In that sense, we are not like a factory producing goods that can save costs with production efficiencies.

"Beyond the cost of attracting and retaining talented faculty, we must also deal with other costs that are linked directly to quality. Examples are scientific materials and equipment, and books and periodicals for our libraries," Danforth added.

"In Washington University's undergraduate programs, income from tuition is more than 60 percent of all

the income required. Other sources, notably gifts and income from the University's endowment, are critical elements but provide less than one-quarter of the University's basic academic and administrative functions," according to James Buchholz, vice chancellor for finance and administration.

To help students and families meet its costs, Washington University has developed a Cost Stabilization Plan (CSP). The CSP program freezes tuition and room and board costs not

covered by financial aid at the charges in effect during the first year of the agreement. The plan allows monthly installment payments over as many as 10 years at fixed interest rates, generally near the prime.

"As in past years, financial aid will increase to help our students cover increased costs. This should minimize the impact of these increases," said Dennis J. Martin, director of financial aid. More than 50 percent of Washington University students receive need-based support.

Jacquelyn Rodgers, business school registrar, dies at age 60

Jacquelyn L. Rodgers, 60, registrar at the John M. Olin School of Business, died Jan. 15, 1988. She had been hospitalized since Nov. 30, when she suffered a cerebral hemorrhage.

Mrs. Rodgers first joined the University in 1966 as secretary-receptionist in the dean's office of the College of Arts and Sciences. In addition, from 1971-78 she served concurrently as secretary to the field study committee of the college. She left the University in 1978 to become an administrative assistant in an insurance brokerage firm.

She was featured in a 1972 issue of a campus newsletter. Her uncanny

ability to remember the names of students in the college had earned her fame across the campus. In the article she remarked that she wanted "to convey the feeling that this (the college) is not some lofty tower but a warm place."

Mrs. Rodgers came back to the University in 1981 as assistant to the business school registrar. After several promotions, she was named registrar in July 1987.

She is survived by two sons, Michael P. of London, England, and Todd C. of St. Louis; a daughter, Gwen Toll of St. Louis; a sister and two brothers; and two grandchildren.

Provost search committee named

A committee to search for a provost has been appointed by Chancellor William H. Danforth. The Provost Search Committee will be chaired by Ronald G. Evens, M.D., Elizabeth E. Mallinckrodt Professor of Radiology and head of the Department of Radiology.

W. Maxwell Cowan resigned from the position of provost and executive vice chancellor, effective Jan. 1, 1988, to become vice president and chief scientific officer of the Howard Hughes Medical Institute in Bethesda, Md. Ralph E. Morrow, Ph.D., former provost, is serving as acting provost.

In addition to Evens, other members of the search committee are: Gary I. Boren, LL.B., professor of law; Harvey R. Colten, M.D., Harriet B. Spoehrer Professor of Pediatrics and head of the Department of Pediatrics; Richard M. Diemer, D.D.S., Ph.D., associate dean for educational development, School of Dental Medicine; Nicholas Dopuch, Ph.D., Hubert C. and Dorothy R. Moog Professor of Accounting; Joshua A. Gordon, president of Student Union; Larry A. Haskin, Ph.D., Ralph E. Morrow Distinguished University Professor and chairman of the Department of Earth and Planetary Sciences; Lucian W. Krukowski, Ph.D., professor and chairman of the Department of Philosophy; James E. McLeod, director of African and Afro-American Studies;

Hylarie M. McMahon, professor of art and director of graduate studies in the School of Fine Arts; Philip Needleman, M.D., Alumni Professor of Pharmacology and head of the Department of Pharmacology; Martha N. Ozawa, Ph.D., Bettie Bofinger Brown Professor of Social Policy; Carl B. Safe, associate professor of architecture; Robert H. Salisbury, Ph.D., Sidney W. Souers Professor of American Government and chairman of the Department of Political Science; Barry E. Spielman, Ph.D., professor and chairman of the Department of Electrical Engineering; and Gloria W. White, associate vice chancellor, personnel and affirmative action.

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NOTABLES

Harold Blumenfeld, professor of music, will have his first major orchestral work, "Diluvial: Evocations of A.R.," premiere on Feb. 20 when the Cincinnati Philharmonic Orchestra performs it under the direction of its conductor, Gerhard Samuel. On Feb. 22, Blumenfeld's 1981 Rimbaud cantata, "La Face Cendree," will receive its 16th performance, this time by graduate performers of the Cincinnati College-Conservatory. Blumenfeld's "Un Carnet de Damne," an extended setting of the final section of Rimbaud's "Season in Hell," was composed in early 1987 and premiered by the Voices of Change of Dallas with Blumenfeld serving as guest conductor.

Irving Engel, professor of architecture, has had a book published by Prentice-Hall Inc. The book, titled *Structural Steel in Architecture and Building Technology*, addresses the needs of architecture students and others in the building professions. The book is intended to serve as a college-level textbook as well as a professional reference.

Hollis Huston, Ph.D., assistant professor of performing arts, will deliver a paper, titled "Telling Lies and Selling Truth!" at the Themes in Drama Conference Feb. 12-14 in Riverside, Calif.

Angela Miller, Ph.D., assistant professor of art history, recently presented a paper, titled "Region and Nation in the 1850s: Claiming the Part as the Whole," to the 1987 American Studies Association meeting in New York City. The paper was given for a panel titled "Symbolic Transformations in the 1850s: Culture and Impending Catastrophe."

Eric Pankey, coordinator of The Writing Program, received a fellowship in creative writing from the National Endowment for the Arts. The fellowship includes a cash award of \$20,000.

Gerald R. Popelka, Ph.D., clinical research scientist at the Central Institute for the Deaf and professor of audiology, has been elected a Fellow of the American Speech-Language-Hearing Association (ASHA) at its 1987 annual convention in New Orleans. He also presented a tutorial session on "Digital Signal Processing for the Hearing Impaired" and participated in a panel on "Hearing Aid Selection Strategies and Probetube Microphone Measure" at the convention. Popelka served as an adjunct member of a National Institutes of Health study section that reviewed project proposals in Washington, D.C.

Helen W. Power, Ph.D., adjunct assistant professor of Women's Studies, gave two papers at the meeting of the Midwest Modern Languages Association, held Nov. 12-14 in Columbus, Ohio. One paper, "Women as Part-Timers, Part-Timers as Women," was presented at the President's Forum; the other paper, "Teaching Women's Writings: Issues of Choice," was presented for the Women's Caucus for Modern Languages.

Mark R. Rank, Ph.D., assistant professor of sociology, presented a paper, titled "Pregnancies Among Women on Welfare: The Likelihood and Determinants," at the annual meetings of the National Council on Family Relations in Atlanta, Ga.

Carter Revard, Ph.D., professor of English, has a selection of his poems included in the *Harper and Row Anthology of 20th Century Native American Poetry*. An interview about Revard's poetry and other writings on American Indian matters appears in *Survival This Way* (University of Arizona Press, 1987). His essay "Traditional Osage Naming Ceremonies: Entering the Circle of Being" is included in *Recovering the World*, a collection of essays on American Indian literatures and cultures (University of California Press, 1987).

Eugene Rubin, M.D., Ph.D., assistant professor of psychiatry, and **John C. Morris**, M.D., assistant professor of neurology, lectured at a conference on "Geriatric Mental Health: An Overview for the Primary Care Physician," held Nov. 13 at the University of Nebraska Medical Center in Omaha. Rubin presented psychiatry grand rounds, titled "Behavioral Manifestations of Alzheimer's Disease," and Morris presented medicine grand rounds, titled "Parkinson's Disease and Dementia."

Svetozar Stojanovic, Ph.D., visiting scholar from the University of Belgrade who shares an appointment in sociology and philosophy, spoke on "East European Reflections on Glasnost" at the annual meetings of Christians Associated for Relationships with Eastern Europe in New York City.

Robert B. Thompson, J.D., professor of law, has published an article titled "What Federal Role Is Appropriate in the Regulation of Tender Offers?" in a recent edition of *The National Law Journal*. He also wrote an article on "Defining the Federal and State Realms of Tender Offer Regulation," which was published in Vol. 64, No. 4 of the *Washington University Law Quarterly*.

Carl P. Wellman, Ph.D., Hortense and Tobias Lewin Distinguished Professor in the Humanities, gave a public lecture on "Judicial Discretion and Constitutional Law" at Westminster College in Fulton, Mo. At the college, he also spoke informally to philosophy students on "Autonomy and the Law" and political science students on "Social Justice and Human Rights." His two-day appearance at the college was under the auspices of the Visiting Philosopher Program sponsored by the National Endowment for the Humanities. Wellman also spoke on "The Right to Self-Defense" before cadets studying military ethics at the United States Military Academy at West Point, N.Y.

Gene M. Zafft, L.L.M., adjunct professor of law in the graduate tax program, spoke on "Tax and Financial Aspects of Buy-Sell Agreements" in the 34th annual tax conference of Missouri Tax Practitioners, held in Jefferson City.

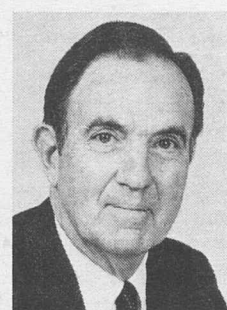
Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

Allen Martin Jr. to retire

Allen F. Martin Jr., assistant vice chancellor of alumni and development programs, is retiring Feb. 12 after 15 years with the University.

Martin came to the University in 1973 as director of alumni relations



Allen F. Martin Jr.

and was named assistant vice chancellor in 1978. During his tenure at Washington University, the percentage of annual giving has tripled, the alumni annual fund has gone from \$50,000 to \$3.3 million, and corporate matching gifts have increased from \$20,000 to \$600,000.

He was instrumental in developing several new programs, including the Alumni Program for Admissions, Alumni Travel, and the Alumni Insurance Programs. He also played a major role in a recent reorganization of the University's Alumni Board of Governors.

"Allen Martin will be greatly missed both by his colleagues at the University and by the volunteers who have worked with him here," said David T. Blasingame, associate vice chancellor and director of Alumni and Development Programs. "He's been an integral part of the progress the University has

made in the Alumni and Development Programs."

Martin, who has served 26 years at three institutions of higher education, recently received the Retiree Recognition Award from Great Lakes District 5 of the Council for the Advancement and Support of Education (CASE). The award establishes Martin as a lifetime member of CASE and is a tribute to his service in advancing higher education.

CASE, a non-profit organization based in Washington, D.C., has a membership of more than 2,800 institutions and 13,000 professionals in 24 countries. Great Lakes District 5 is one of eight CASE districts and includes Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin and the Canadian provinces of Manitoba and Ontario.

Martin began his higher education career in 1962 as director of alumni relations at Syracuse University, where his program was selected by the American Alumni Council and the Sears Roebuck Foundation as one of the most comprehensive in the nation. He became director of development at Kenyon College in Gambier, Ohio, in 1968 and remained there until he came to Washington.

He received his bachelor's degree in 1950 from Syracuse University.

A retirement party for Martin will be held Feb. 11 from 4 to 6 p.m. in the Alumni House, 6510 Wallace Circle.

Stellar discovery — continued from p.1

per million, and in grains so small that they are invisible to the naked eye — one silicon carbide grain weighs a few millionths of a billionth of a gram. The mineral also is rare on earth, but is well-known in its man-made form as carborundum, a synthetic industrial abrasive.

According to Bernatowicz, the meteoritic silicon carbide provides scientists with a link between materials that can be studied in the laboratory and those that have only been remotely glimpsed by remote astronomical observation around stars and in the interstellar medium. "We now have in hand materials that formed outside of our own solar system, before it even existed. Perhaps we will now be able to infer from them the nature of the

stellar environments in which they formed."

Hundreds of meteors blaze through the sky and a few meteorites dent the earth each year. The Murray meteorite, a stony object weighing about 50 pounds, fell near Murray, Ky., in 1950. In 1969, a banner year for meteorites, the Allende meteorite fell in Mexico and the Murchison meteorite in Australia. Both were large meteorites — more than 200 pounds of the Murchison were recovered, and two tons of the Allende were left intact. Allende was especially important because it enabled scientists for the first time to study otherwise rare, primitive early solar system material through a wide variety of techniques.

Tony Fitzpatrick

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

The average heart attack victim waits three hours before seeking medical care, and many die before they get to a hospital. t-PA, a new drug that can halt heart attacks in progress, won't live up to its potential unless the public is made aware of this life-saving medication, says Philip Ludbrook, M.D., professor of medicine. He calls for a major public education campaign. The story appeared in the Dec. 24 issue of *USA Today*, the Dec. 24 issue of the

Chicago Tribune, and the Jan. 3 issue of the *Minneapolis Star and Tribune*.

How "Clean" Is Clean? asks an article about air quality in the Jan. 4 issue of *Newsweek*. The Reagan years haven't been easy for environmentalists, who have had to settle for small victories or none at all. Congress will be reauthorizing the Clean Air Act of 1977, and in the next eight months intends to take a close look at what "clean air" means. "The Clean Air Act is badly out of date," says Kenneth Chilton, associate director at the Center for the Study of American Business. "Whether anyone has enough guts to update it is the question."

CALENDAR

Feb. 11-20

LECTURES

Thursday, Feb. 11

1:10 p.m. **George Warren Brown School of Social Work Colloquium**, "The Androgynous Black Parent: One Answer to the Single Parent Dilemma," Rosetta Taylor Moore, asst. director, student education services center, St. Louis U. Brown Hall Lounge.

2:30 p.m. **Dept. of Mechanical Engineering Lecture**, "Spectral Element Methods for Incompressible Navier-Stokes Equations," Anthony Patera, assoc. prof. of mechanical engineering, MIT. 100 Cupples II.

4 p.m. **Dept. of Anthropology Lecture**, "Ethiopian Jews: Integration and Interaction with Israeli Society," Ulysses Santamaria, Centre Nationale de Recherche Scientifique, Paris, France. 101 McMillan.

Friday, Feb. 12

Noon. **WU Democratic Socialists of America Left Forum**, "Jesse Jackson for President: The Issues," William L. Clay Jr., Missouri state representative and Missouri coordinator of the Jackson for President Committee. Women's Bldg. Lounge.

2 p.m. **Dept. of Sociology Colloquium** with Eric Livingston, Ph.D. 219 McMillan.

4 p.m. **Dept. of Chemical Engineering Seminar**, "The Behavior of Immobilized Living Cells: Characterization Using Isotopic Tracers," Channing Robertson, prof. of chemical engineering at Stanford U. 100 Cupples II.

Saturday, Feb. 13

11 a.m.-12:30 p.m. **University College Saturday Seminar**, "The Ideological Novel," Barbara Salert, WU assoc. prof. of political science. Women's Bldg. Lounge.

Sunday, Feb. 14

1 p.m. **Bookmark Society Film/Discussion**, "All the President's Men," led by Jack Hexter, WU John M. Olin Professor of the History of Freedom. Free. Simon Aud.

Monday, Feb. 15

4 p.m. **William H. Roever Lectures in Geometry** with John W. Morgan, prof. of mathematics, Columbia U. (Also Feb. 16-19, same time.) Co-sponsored by the Dept. of Mathematics and the William H. Roever Fund. 101 Lopata.

Tuesday, Feb. 16

4 p.m. **Dept. of Chemistry Seminar**, "Effects of Pulse Shaping in Laser and Magnetic Resonance Spectroscopies," Warren Warren, prof. of chemistry, Princeton U. 311 McMillan.

4 p.m. **Dept. of Sociology Colloquium**, "Beyond the Urban Pale: A Large Sample Structural Analysis of U.S. Crime Rates," Kevin D. Breault, Ogburn-Stouffer Fellow at U. of Chicago. 219 McMillan.

Wednesday, Feb. 17

11 a.m. **Cultural Celebration Keynote Address**, "At the Edges of Cultures," Vine Deloria Jr., American Indian studies, U. of Arizona. Graham Chapel.

7 p.m. **Gay and Lesbian Alliance of WU School of Law Lecture**, "Legal Implications of Lesbian and Gay Parenthood," attorneys Roberta Achtenberg and Gale L. Toko. 325 Mudd. For more info., call 889-5349.

Thursday, Feb. 18

3 p.m. **Dept. of Chemistry Seminar**, "Fish and Thermochemistry," David Griller, prof. of chemistry, National Research Council, Ottawa, Canada. 311 McMillan.

4 p.m. **Dept. of Anthropology Colloquium**, "Language, Myth and Ontology Among the Pitjantjatjara of Central Australia," Aram A. Yengoyan, prof. of anthropology, U. of Michigan. 101 McMillan.

Friday, Feb. 19

9:30 a.m. **Dept. of Engineering and Policy Seminar** (dissertation defense), "Encouraging Technology Through Legislation: A Study of the Development of Cogeneration Facilities," Claire Wooster, WU candidate for doctor of science. 104 Lopata.

1:30 p.m. **Dept. of Engineering and Policy Lecture**, "Technology, the Arms Race and America's Economic Prospect," Lloyd J. Dumas, prof. of political economy, U. of Texas at Dallas. 104 Lopata.

4 p.m. **Dept. of Anthropology Colloquium**, "Reading Geertz: Culture, Ideology and the Creation of Tradition in Southeast Asia and Beyond," Aram A. Yengoyan, prof. of anthropology, U. of Michigan. 101 McMillan.

8 p.m. **Hortense Lewin Lecture**, "Parisian Lessons and 19th Century American Painters," H. Barbara Weinberg, prof. of art history, Queens College. Steinberg Aud.

THEATRE

Friday, Feb. 19

8 p.m. **Thyrsus and Student Union Present** the play "Talley's Folly" at the Drama Studio, Mallinckrodt Center. (Also Feb. 20, 26 and 27 at 8 p.m. and Feb. 21 at 2 p.m., Drama Studio.) General admission is \$3; WU community and senior citizens, \$2.

Saturday, Feb. 20

8 p.m. **Edison Theatre Presents** the Eastman Brass. Admission is \$15 for the general public; \$10 for senior citizens and WU faculty and staff; and \$7 for students.

MUSIC

Sunday, Feb. 14

7:30 p.m. **Dept. of Music Piano Recital** with Bee-Yin Soo, graduate student in music. Graham Chapel.

EXHIBITIONS

"Oil Sketches from the Ecole des Beaux-Arts," more than 100 paintings and sketches from the collection that won prizes in the French Academy between 1816 and 1863. Gallery of Art, upper and lower level galleries. Feb. 20-April 3. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Six Centuries of Notable Books: Highlights From Special Collections of Washington University." Through April 8. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays.

"Drawings by Sculptors," featuring the work of WU students. Through March 10. Sponsored by School of Fine Arts and B'nai B'rith Hillel Foundation. Hillel House, 6300 Forsyth Blvd. 9:30 a.m.-4:30 p.m. weekdays. For more info., call 889-6581 or 726-6177.

"High School Art Competition." Through Feb. 14. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

"Permanent Collection." Through June 6. Gallery of Art, lower level. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

FILMS

Thursday, Feb. 11

7 and 9 p.m. **WU Filmboard Series**, "The Virgin Spring." \$2. Brown Hall.

Friday, Feb. 12

8 and 10 p.m. **WU Filmboard Series**, "Lady and the Tramp." \$2. Brown Hall. (Also Sat., Feb. 13, same times, and Sun., Feb. 14, at 2 p.m., Brown.)

Midnight. **WU Filmboard Series**, "Harold and Maude." \$2. Brown Hall. (Also Sat., Feb. 13, same time, and Sun., Feb. 14, at 4 p.m., Brown.) Both the feature and midnight films can be seen for a double feature price of \$3.

Monday, Feb. 15

7 and 9 p.m. **WU Filmboard Series**, "Black Narcissus." \$2. Brown Hall. (Also Tues., Feb. 16, same times, Brown.)

Wednesday, Feb. 17

7 and 9 p.m. **WU Filmboard Series**, "Three Men and a Cradle." \$2. Brown Hall. (Also Thurs., Feb. 18, same times, Brown.)

Friday, Feb. 19

7 and 9:30 p.m. **WU Filmboard Series**, "Witness." \$2. Brown Hall. (Also Sat., Feb. 20, same times, and Sun., Feb. 21, at 7 p.m., Brown.)

Midnight. **WU Filmboard Series**, "Home of the Brave." \$2. Brown Hall. (Also Sat., Feb. 20, same time, and Sun., Feb. 21, at 9:30 p.m., Brown.)

Saturday, Feb. 20

2 p.m. **Japanese Film Series**, "Dear Summer Sister." Free. Steinberg Aud.

SPORTS

Friday, Feb. 12

7 p.m. **Women's Basketball**, WU vs. U. of Chicago. Field House.

Saturday, Feb. 13

3 p.m. **Women's Basketball**, WU vs. DePauw U. Field House.

Tuesday, Feb. 16

7 p.m. **Women's Basketball**, WU vs. MacMurray College. Field House.

Thursday, Feb. 18

7 p.m. **Women's Basketball**, WU vs. New York U. Field House.

Saturday, Feb. 20

7:30 p.m. **Men's Basketball**, WU vs. U. of Rochester. Field House.

MISCELLANY

Friday, Feb. 12

6:48-7:30 p.m. "Introspection 88," a black awareness seminar sponsored by the Association of Black Students. Keynote speech, titled "Who Am I..(or Want To Be?)" by Patricia Russell-McCloud, attorney and professional orator. Simon Auditorium. Free and open to the WU community. For more info., call 889-5989 between 11 a.m. and 1 p.m., or 361-1081 after 5 p.m.

9:30-10:30 p.m. A segment of the documentary "Eyes on the Prize: America's Civil Rights Years, 1954-1965" will be shown as part of "Introspection '88," a black awareness seminar sponsored by the Association of Black Students. Free and open to the WU community. Simon Auditorium. For more info., call 889-5989 between 11 a.m. and 1 p.m., or 361-1081 after 5 p.m.

Saturday, Feb. 13

9 a.m.-noon. **University College Workshop**, "Search and Research Skills: Preparing to Write Papers," Mary Seager, Dept. of Reading, St. Louis Community College at Florissant Valley. Fee is \$20. To register, call 889-6788.

9:40-10:45 a.m. **Workshop titled "Can We Talk?"** led by attorney Patricia Russell-McCloud as part of "Introspection '88," a black awareness seminar. Russell-McCloud will lead another workshop titled "Are You Doing Better But Feeling Worse?" from 11:40 a.m. to 12:20 p.m. From 1:45-2:15 p.m., she will lead a role-playing session titled "Seat of Circumstance," and from 2:15-2:45 p.m., she will preside over an open discussion titled "Meeting Halfway - We Need To Exercise." All of these events will be held in Simon Hall. For more info., call 889-5989 between 11 a.m. and 1 p.m., or 361-1081 after 5 p.m.

Tuesday, Feb. 16

7 p.m. **Cultural Celebration International Fashion Show**. Clothes from more than 20 countries will be featured. Simon Hall Aud.

Wednesday, Feb. 17

8-10 p.m. **Cultural Celebration Coffeehouse**. Afi Ama, an African-American dance and music troupe, will perform. The Gargoyle, Mallinckrodt Center.

Thursday, Feb. 18

Noon. **WU Woman's Club Mini-Luncheon**. Thomas F. Eagleton, WU University Professor of Public Affairs, will lecture on "Our Interests and Policies in a Changing World." Women's Bldg. Lounge. A shuttle service will be provided. Cost is \$2 for members and \$4 for their guests. Reservations deadline is Fri., Feb. 12. Call Coreen Motard, 645-2022, or Ruth Drake, 721-4829.

8-10 p.m. **Cultural Celebration "Taste of the World"**, in which participants will be able to travel around the world without leaving campus. Women's Bldg.

Friday, Feb. 19

11 a.m.-2 p.m. **Cultural Celebration Festival**. Mallinckrodt Center Gallery outside The Gargoyle.

5-8 p.m. **Cultural Celebration International Dinner** featuring performances by foreign dancers. Greenstuffs and La Cuisine, Wohl Center. Cost for the event is \$7.65 for the general public, \$6.50 for students and \$5.50 for students with meal cards.

Saturday, Feb. 20

9 a.m.-noon. **University College Workshop**, "Changing Jobs Changing Careers," Ellen Krout,

WU assoc. director, WU Career Center. Fee is \$50. To register, call 889-6788.

9 a.m.-4:30 p.m. **Conference on Economic Conversion**, "Jobs and Weapons: Disconnecting Them — Economic Conversion Planning for the 1990s." Lopata Hall. The registration fee, including lunch, is \$10; the fee without lunch is \$5. Deadline for paying fees is Feb. 17. To register, call 727-1096 (mornings) or 993-2464.

9 p.m.-1 a.m. **Cultural Celebration Mardi Gras Party**. The Gargoyle, Mallinckrodt Center. The party, which is free, is open to the WU community only.

Calendar Deadline

The deadline to submit items for the Feb. 25-March 5 calendar of the Washington University Record is Feb. 11. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.

Celebration —

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Center. The featured menu items are Italian, Chinese, Mexican and Cajun food. The cost for the event is \$7.65 for the general public, \$6.50 for students and \$5.50 for students with meal cards. Tickets may be purchased at the door.

The popular Mardi Gras party will be held from 9 p.m. to 1 a.m. on Saturday, Feb. 20, in The Gargoyle. The party, which is free, is open to the Washington community only.

As part of Cultural Celebration, the Washington University Filmboard will show the films "Black Narcissus," "Three Men and a Cradle," and "Witness." "Black Narcissus" will be shown at 7 and 9 p.m. Feb. 15 and 16. "Three Men and a Cradle" will be shown at 7 and 9 p.m. Feb. 17 and 18. "Witness" will be shown at 7 and 9:30 p.m. Feb. 19 and 20. On Feb. 21, it will be shown at 7 p.m. only. The films cost \$2 and will be shown in Brown Hall Auditorium.

Cultural Celebration is sponsored by Campus Y, Office of Student Activities, Residential Life and Stix International House. It is primarily funded by Student Union and the Congress of the South-40.

For more information on the lecture, call 889-5285. For more information on Cultural Celebration activities, call 889-5010.

Weapons topic of all-day conference

The Department of Engineering and Policy is co-sponsoring an all-day conference on "Jobs and Weapons: Disconnecting Them — Economic Conversion Planning for the 1990s."

The conference, also sponsored by the St. Louis Economic Conversion Project and the Lentz Peace Research Laboratory, will be held from 9 a.m. to 4:30 p.m. on Saturday, Feb. 20, in Lopata Hall.

Topics to be discussed include the impact of military spending on the economy, how weapons production impacts the labor force, and strategies for conversion of military-oriented activity to civilian activity in both the St. Louis area and around the country.

Registration fees, due by Feb. 17, are \$10 with lunch included or \$5 if you bring your own lunch. To register or for more information, call 727-1096 (mornings) or 993-2464.