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Scholar announces discovery of earliest primate ancestor

A Washington University anthropologist has found the complete skull of a 35-million-year old prosimian in the Fayum region of Egypt.

This is the earliest fossil evidence for modern prosimians, one of the three evolutionary lineages for primates.

"There have been a large number of archaic prosimian fossil finds, but the origins of the modern prosimians have been a mystery," said D. Tab Rasmussen, Ph.D., associate professor of anthropology, one of the scientists who analyzed the skull. "This find proves that the evolutionary group that gave rise to modern prosimians was present in the Fayum 35 million years ago."

Fossil evidence of the other two lineages, anthropoids and tarsiers, already had been found in the same region. This makes Egypt the only place in the world to have evidence of all three branches of primates. This suggests that all three primate groups evolved in Africa and that their common ancestor, the creature that links humans and all other primates, may yet be found in this region, Rasmussen said.

Rasmussen excavated the complete skull in the Fayum, an area north of Cairo and west of the Nile River renowned for its fertile soil and extensive archaeological resources, in the fall of 1993 with Elwyn Simons, Ph.D., James B. Duke Professor of Anthropology at Duke University. Their findings were published in the recent issue of the Proceedings of the National Academy of Science.

Primates are divided into three groups: anthropoids, prosimians and tarsiers. Anthropoids include humans, monkeys and apes; prosimians include lemurs, lorises and bushbabies; and tarsiers, of which only one type survives and is called a tarsier. Tarsiers, which are small, nocturnal tree-living animals indigenous to parts of Southeast Asia, like Borneo and the Philippines, share characteristics of both anthropoids and prosimians.

Prosimians have open eye sockets, unlike anthropoids, which have closed eye sockets. Other characteristic prosimian features include a "tooth comb," so called because the canines and incisors in the lower jaw jut straight out and form a comb the animals use on each other's fur. In addition, prosimian canines in the upper jaw are flat, like daggers, rather than cylindrical, like candy corns. Anthropoids have cylindrical-shaped canine teeth.

Not only is this the earliest fossil skull of the modern prosimian, it is the first fossilized evidence of the tooth comb. One tooth is preserved in the lower jaw of Rasmussen's specimen.

"The argument in the literature has always been how difficult it would be to find a preserved tooth comb, but we have it," said Rasmussen.

Although this specimen is not the direct ancestor of lemurs and lorises, it does belong to the same family tree, said Rasmussen, who suggests that this is evidence that the Fayum

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Engineer promotes 'rootfuel' as energy source — in Third World and at home

A novel concept that was introduced five years ago in Third World countries to reduce serious health problems and protect the environment is now coming home to do the same in a part of the United States that shares similarities with the Third World.

In 1985, Eugene B. Shultz, Ph.D., professor of engineering and applied science, made the serendipitous discovery in New Mexico that sun-dried roots of the Mexican *calabacilla loca* plant (called "buffalo gourd" in the southwestern United States) burned cleaner and more efficiently than wood for cooking fuel.

Through extensive scientific testing, Shultz determined that rootfuel, as he appropriately named it, is produced more rapidly and in much smaller space than woodfuel. In addition, he found rootfuel is much more combustible than wood, producing very little smoke. Because of his concern that more than half of the Third World's population still cooks food on simple, smoky stoves, and that Third World deforestation is a global problem, Shultz felt compelled to carry his concept to the arid areas where relatives of the American Southwestern plant grow wild.

Since 1989, Shultz and his research partner, Wayne G. Bragg, Ph.D., formerly with Washington University and now with the non-profit organization Enable International, have successfully tested and initiated use of rootfuel in five countries on three continents — Latin America, Africa and Asia.

But it wasn't until an article about Shultz and his clean-burning biomass fuel appeared in Science News in the fall of 1993 that rootfuel came home.

Louise Abel, M.D., a physician for the Navajo Nation Indian Health Service in Shiprock, N.M., read the article, which pointed out the health hazards of indoor

cooking with coal, wood or dung and linked the high rate of infant and women's respiratory illness in Africa and Mexico with smoke from these fuels. The doctor called Shultz and arranged for Shultz and Bragg to give a seminar on rootfuel to the Indian Health Service.

Within months of that seminar, the two researchers received a U.S. Department of Energy (DOE) contract to implement a study of raising rootfuel as an energy crop and evaluating its use on the Navajo Nation Reservation. The contract is from the Western Regional Biomass Energy Program of the DOE.

"When I first considered rootfuel, I immediately thought 'Third World,'" Shultz said. "But I hadn't thought of important needs here at home. It is ironic that we are now putting the concept to work in the United States, within miles of where we found the plants. Rootfuel now has come full circle."

"We have a very high incidence of lower respiratory disease, especially among children in the Navajo Nation, leading to high mortality as well as long-term disability," said Abel. "We also see a high incidence of chronic respiratory disease in older adults, which is unexplained because the Navajo as a group are not heavy cigarette smokers. There is evidence that indoor smoke is involved in these incidents."

"Within the borders of the United States we have a Third World country that we don't know enough about. Conditions in the Navajo Nation are similar to those in the Third World. We're hopeful that Dr. Shultz's program becomes adopted here because it could have tremendous benefits over the years."

Shultz and Bragg presented a paper on rootfuel and its potential at a joint meeting

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As part of a new course, titled "Theatre for Young Audiences Workshop," taught by Artist in Residence Jeffery Matthews, students perform for young people. Below, students present "Mike Mulligan and His Steam Shovel," with help from Washington University Nursery School children. Nursery school teacher Kathleen Pedicini (left) and senior Lisa Degregoria lead youngsters (from left): Vaishnavi Hariprasad, Pierre Guo, David Luten and Molly Clarke.

Feeding the homeless

Diverse student groups unite for common goal

A group of Washington University students has organized a new project to help feed the St. Louis community's homeless.

The project, called "Stone Soup," is sponsored by the St. Louis Hillel Center, Catholic Student Center and the George Warren Brown School of Social Work. "Stone Soup" officially began Nov. 6 when students served homeless people on the streets of St. Louis. A ribbon-cutting ceremony was held Nov. 5 at the Hillel Center, 6300 Forsyth Blvd. Edward S. Macias, Ph.D., provost and interim dean of the Faculty of Arts and Sciences, and James E. McLeod, dean of the College of Arts and Sciences, were among the speakers.

Each weekend the students cook the food at the Catholic Student Center, 6352 Forsyth Blvd. St. Louis area businesses, as well as the Marriott Food Service on campus and individuals, donate the food, which includes a nutritious hot stew, bread, pastries and a beverage. Participants have established a designated route to distribute the food.

Project organizers are Rabbi Lynn Koshner, assistant director of the St. Louis Hillel Center; senior architecture major A. J. Lubelchek, a community service project team leader for Hillel's Jewish Student Council; and Kelly Garrity, the social action coordinator for the Catholic Student Center.

The idea for the project began with Koshner, a new member of the Washington

community. She worked on similar projects in Florida and in St. Louis at the Kol Am Congregation in Ballwin, where she was a rabbi. Koshner presented the idea to Lubelchek and then to the Rev. Gary Braun of the Catholic Student Center. Koshner and Braun serve as group advisers, along with David E. Pollio, Ph.D., assistant professor of social work. Pollio's research interests include homelessness.

"Stone Soup" is an ongoing project that will continue through the holidays until summer break, said Garrity. As the project builds, the homeless "will be expecting us to be there each week for their meals," he said.

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Medical Update



Medical students (clockwise from left) Denise Dewald, Rich Tsai, Valerie Halpin, Julie Fuchs and Marc Seidman serve food they have prepared at a soup kitchen affiliated with Trinity Episcopal Church, 600 N. Euclid Ave. They are members of Commotion, a community service organization made up of first- and second-year medical students.

Mental health in children, adolescents investigated

Researchers at Washington University have received a five-year \$7.9 million grant from the National Institute of Mental Health to study the mental health needs of children between the ages of 4 and 17.

The national project is called the Study of Service Use, Need, Outcomes and Costs for Child and Adolescent Populations. It will survey children around the country to determine the incidence of mental health problems and the use and availability of mental health services for children and adolescents.

The study will be the first to deal in a structured way with children as young as 4 years of age. It also will be the largest to look at prevalence of mental health problems in the pediatric and adolescent population.

Linda B. Cottler, Ph.D., associate professor of epidemiology in psychiatry, is the principal investigator for the St. Louis site. "It's very exciting that Washington University has been selected to participate," she said. "It allows us to extend the research efforts of an investi-

gative team that has extensive experience and interest in these areas."

Cottler is one of six principal investigators around the country. They will work together to design the study. The researchers also will conduct interviews with children and their parents.

Investigators come from several different areas of expertise. Psychiatrists, epidemiologists, social workers, economists and health administrators will gather and analyze data.

A total of 13 Washington University investigators will work on the project. In addition to Cottler, they include Michelle Bidaut-Russell, Ph.D., Wilson M. Compton III, M.D., Joan L. Luby, M.D., Richard E. Mattison, M.D., Rumi K. Price, Ph.D., Wendy Reich, Ph.D., Lee N. Robins, Ph.D., and Kathryn Rost, Ph.D., all of the Department of Psychiatry at the School of Medicine.

The Center for Mental Health Services Research at the George Warren Brown School of Social Work also will be actively involved in the project. Social work professors Martha N. Ozawa, Ph.D., and Arlene R. Stiffman, Ph.D., are co-investigators.

In addition, Edward L. Spitznagel Jr.,

Ph.D., professor in the mathematics and biostatistics departments, and Robert S. Woodward, Ph.D., from the University's Health Administration Program, will participate in the study.

The study has four primary objectives. One is to identify the patterns of mental health service use and the cultural and socioeconomic factors that determine which children end up using which services. Second, the researchers will attempt to learn the prevalence of various mental health problems and to define the need for services in both urban and rural communities. Then they'll look at outcomes for children who use the various types of services. And finally, the investigators will study the economics of mental health services.

Called the Missouri Child and Adolescent Project, the Washington University portion of the study will survey 3,900 children in the St. Louis area and in the Missouri Bootheel. The majority (3,000) of the children will be chosen at random from the general population. The remaining 900 will be identified as being in need of psychological assessment or treatment.

Vaccinations, testing key to controlling infectious diseases

This is the second of a series of articles on environmental health and safety initiatives at Washington University.

The spread of the hepatitis b virus (HBV) and tuberculosis (TB) in healthcare workers and the general population has led the Centers for Disease Control and Occupational Safety and Health Administration (OSHA) to mandate that facilities develop infection control plans for infectious agents.

The School of Medicine has a well-developed infection control plan that includes vaccines and testing for infectious agents. Aspects of the infection control plan are managed by both the Environmental Safety Office (ESO) and the Employee Health Service.

To prevent the spread of HBV, the Employee Health Service recommends a three-shot vaccine for employees who work with human blood or human body fluids. Employees are told of this recommendation in orientation sessions and can receive the free vaccine through the Employee Health Service.

For TB, a skin test is required of all new employees at the School of Medicine. The School of Medicine tries to test all employees within the first two weeks of employ-

ment, said Marilyn Miller, clinical nurse specialist in Employee Health. If a test is positive, there is a follow-up chest X-ray and appointment with Karen Winters, M.D., director of Student and Employee Health or the employee's private physician.

Employee Health also recommends that employees retake the TB skin test annually.

Hipps said research faculty and staff sometimes overlook the risk of working with infectious agents because the ill patient is not present in the work area. Anyone who is working with human tis-

sues, blood, body fluids or cultures of infectious agents, or employees who conduct animal research, should find out if vaccines for the agents they are using are available. The laboratory's principal investigator is responsible for determining if a vaccine is appropriate. Laboratory staff and investigators can call the Employee Health Service for guidance.

For more information or to arrange for vaccinations or screenings, call the Employee Health Service at 362-3528 or the ESO at 362-6816.

Volunteers needed for allergy treatment study

The Clinical Outcomes Research Office in the Department of Otolaryngology is seeking 60 volunteers for a six-week study that will evaluate a new treatment for perennial allergic rhinitis.

Researchers are looking for people with a two-year history of perennial allergic rhinitis (PAR) who have not been helped by taking antihistamines, decongestants, combination antihistamine/decongestants or allergy shots. PAR symptoms are nasal obstruction, nasal discharge, sneezing and nasal itching.

To be eligible for the study, volunteers must not currently be taking antibiotics, have a history of nasal polyps or have had an episode of sinusitis lasting for more than three months within the past two years. Volunteers also must not be pregnant or nursing.

Study participants will receive diagnostic blood allergy tests, a nasal exam and medication during the study. At the end of the study, they also will receive \$30.

For more information, call 362-5296.

Roberto Civitelli receives 1994 national bone research award

Roberto Civitelli, M.D., assistant professor of medicine, recently received the 1994 Fuller Albright Award from the American Society for Bone and Mineral Research.

The prestigious award is given annually to a young investigator for significant accomplishments in bone and mineral research. Civitelli received the award during the society's annual meeting in Kansas City, Mo. Louis V. Avioli, M.D., Shoenberg Professor of Medicine and director of the Division of Bone and Mineral Diseases, presented the award.

Civitelli studies signal transduction and communication between bone cells in the body's skeleton. His research has contributed significantly to the understanding of osteoporosis and other disorders of skeletal metabolism.

Civitelli's studies have demonstrated that the effectiveness of osteoporosis treatment is related to the rate of bone remodeling and that lifetime estrogen exposure and heredity are the major determinants of premenopausal bone mass. His studies also have shown that a slight vitamin D deficiency exists in postmenopausal women with low bone mass and that the amino acid lysine can boost calcium absorption in women with osteoporosis.

Civitelli has made significant contributions to the current knowledge of signal transduction mechanisms in bone cells. More recently, in studies analyzing bone cell communication, Civitelli has demonstrated that a particular protein called connexin43 is responsible for cell-to-cell communication between bone-forming cells called osteoblasts.

CenterNet conference scheduled for Nov. 30

The Nov. 30 CenterNet video conference will examine case studies of academic health center responses to the managed care environment. Featured guests will represent the University of Nebraska Medical Center, the University of Minnesota, the University of Cincinnati and Rush-Presbyterian-St. Luke's Medical Center in Chicago. During the video conference, which will run from 10:30 a.m. to noon in Room 601A of the School of Medicine Library, viewers from medical centers nationwide can participate in the discussion. To reserve a seat, call 362-2793.

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Salisbury links U.S. culture, politics

Many a paper-packed office, littered bedroom and newspaper-lined garage stand testimony to America's preoccupation with the daily news. Professor Robert Salisbury, Ph.D., relates what might serve as a cautionary tale to that tenacious lot of information junkies unable to part with their print.

"Ed Quick, assistant to Sen. Thomas Eagleton for several years, was widely known for saving newspapers," recalls the political scientist, who himself had been thumbing through a week-old Wall Street Journal in pursuit of a story he intended to clip. "His office was literally covered with these tall stacks of newspapers. Then, one day the staff got word that a fire marshal was going to be making the rounds to ensure that all was up to code. Quick's office ended up on the list of fire hazards."

Salisbury, whose office bears no resemblance to Quick's, makes a point: "If you get caught up in the day-to-day minutiae of politics and campaigning, you lose the big picture. You don't need to know all of the details, all of the spins, nor do most people pay much attention to them. They don't figure all that much in the outcome of elections."

So, how do you pick and choose what to read and follow?

"I don't know," Salisbury said with disarming honesty and a smile that may reveal more than he's willing to admit. "I suppose you follow your instinct. And yet you have to make a connection to the daily minutiae of what you read."

It is the omissions from the news, literature and textbook treatments regarding the American political system, however, that most intrigue Salisbury, Sidney W. Souers Professor of American Government. An astute observer of U.S. government for 40-plus years, he has built a national reputation by slicing into the groundswells of political movements that have puzzled many more traditional, mainstream social scientists.

Much of Salisbury's work has involved field investigations of elite political behavior of American public officials at national, state and local levels. From the perspective of interest group theory, he has written on numerous subjects — campaign reform, citizen participation, religion and education to name a few — exploring the connections among the many components of American pluralist politics.

"The ways political scientists have approached pluralism have missed some of its crucial elements," said Salisbury. "A lot of people regard pluralism as an essentially simple notion. Either there is diversity of interests in the society, and those interests have a shot at making their case and getting heard," he explained, "or economic and political elites dominate everything in an essentially hierarchical society with a few interests at the top always winning."

"Both are rather simple points of view contending with each other. Neither is close to the mark. There are elements in this complexity that are not adequately appreciated. One is the degree to which localism continues to dominate the way the political system functions."

"America is a nation of homeowners," Salisbury continued. "Two-thirds of the country own their homes — people care deeply about local effects, local taxes, local circumstances far more than they do about national affairs. This has an enormous effect on our politics, yet the fact is often buried."

Religion, said Salisbury, falls into the same category of being either overlooked or undervalued. "The dominant social theory stated that with modernization, religion was going to wither away," he explained. "Well, it did not. The United States has been unusual in the degree to which religious affiliation seems to be very powerful."

When Salisbury, a newly minted Ph.D. from the University of Illinois, joined Washington's faculty in 1955, the Department of Political Science was emerging as the base of significant pioneering research in politics and education. In department Chair Thomas H. Eliot, who would later become Washington University chancellor, Salisbury found a colleague with whom he could combine his own research on local politics with Eliot's interest in public school politics.

Under a grant from the Carnegie Foundation, the two commenced a comparative study on state politics and school policy in the states of Michigan, Illinois and Missouri. In what Salisbury has called a "quasi-anthropological foray," the scholars conducted fieldwork by mingling with officials, interviewing interest groups, and completely immersing themselves in institutional settings. This methodology, a nonformalistic sort of "soaking and poking to get at the 'stuff' of political life," Salisbury said, was not widely practiced at the time.

The resulting work, *State Politics and the Public Schools*, was printed in 1964, marking Salisbury's fourth book on American government.

Seven more books followed, chronicling the political scientist's range of interests and expertise. Sparked by the explosion of the Economic Opportunity Program in the 1960s, Salisbury expanded his work on the concerns of citizen participation. His move from field research to theory

University graduate student in the late 1960s and early '70s: "During that time there was a lot of tension on campus between students and faculty. Since Professor Salisbury had built personal relationships with students, he could keep a dialogue going with them that other professors weren't necessarily able to do. He has a wide-ranging intellect, enthusiasm and knowledge about everything from politics to music to literature."

Throw baseball into the mix, as well. It is no secret among those who know Salisbury that he prides himself on his nimble access to an inordinate amount of trivia. He is said to rattle off baseball statistics with the smug satisfaction of a safe slide to home.

No wonder the American Political Science Association, after canvassing the country's crop of political scientists, settled on Salisbury to serve recently as a panelist on an American political history version of trivial pursuit.

Salisbury takes enormous delight in his far-flung interests, justifying a broad agenda of literature, poetry, music, theater, study, travel ... and baseball, with deep conviction: "I am convinced that fully to grasp and comprehend its politics one should be well acquainted with every facet of the culture of which the politics is so vital a part," he has written.

Following this tack, Salisbury, together with English professor and University College Dean Wayne Fields, Ph.D., helped establish an interdisciplinary program in American Culture Studies at the University in the late 1980s.

"Bob is broadly read in the theoretical literature as well," offered John P. Heinz, Owen L. Coon Professor of Law at Northwestern University. "He is very sophisticated conceptually and draws upon a very wide range of resources in solving problems."

Heinz knows well the Salisbury approach of which he speaks. The two met as teacher (Salisbury) and student at Washington University nearly 40 years ago. They have been friends and close associates ever since, collaborating over the years on projects that included the study of the politics of agriculture and public policy analysis. The latter produced results published in *Policy Analysis in Political Science* (1970).

Salisbury's most ambitious project, however, undertaken with Heinz and two other colleagues, began in 1981 and centered on Washington representatives and national policy-making. His extensive investigations into the role of congressional staff conducted in the late 1970s supplied a foundation for the mammoth task ahead. Supported by the American Bar Foundation and the National Science Foundation, the research spanned the 1980s and was based on surveys unprecedented in both size and complexity. The study analyzed the actions and interactions of interest groups and national policy-makers in four areas — energy, health, labor and agriculture.

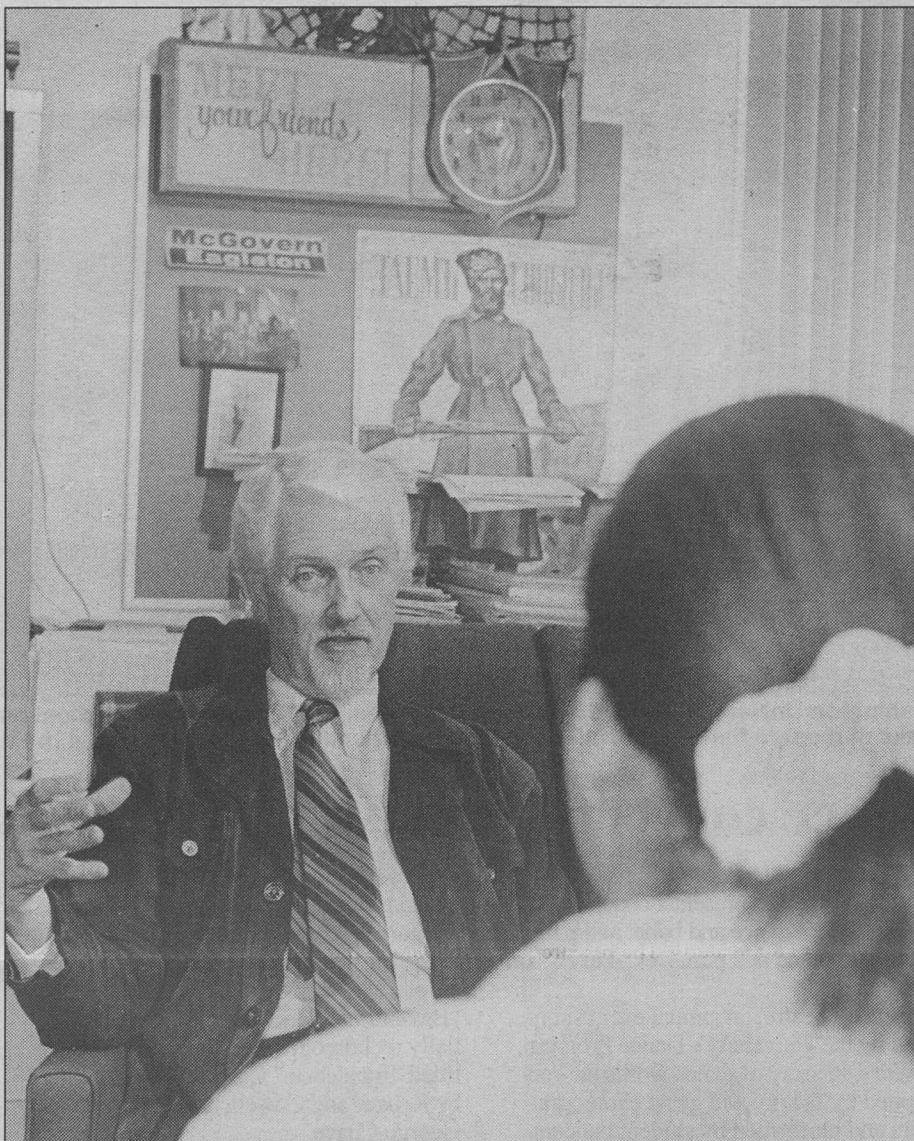
Presented in 1984, the preliminary results exploded onto the pages of newspapers nationwide. The 10-year study, documented through the years in a number of scholarly papers, culminated in a book, *The Hollow Core: Private Interests in National Policy Making* (1993), written by Salisbury and co-authors Heinz, Edward O. Laumann of the University of Chicago, and Robert L. Nelson of the American Bar Foundation. Scholars have saluted the work as a monumental effort, a groundbreaking study of the structure of interest groups.

Reflecting on the study, Salisbury has written that "... interest group politics is dynamic and protean over time, and that there are processes of learning and adaptation quite continuously at work among all the active players in the policy-making system." It is this concept of the interest-institution relationship that distinguishes his approach. The concept also serves as a theme to his collection of essays, says the author. Written over a 30-year period, *Interests and Institutions: Substance and Structure in American Politics* (1992) represents Salisbury's lifelong work in the field of interest groups.

In the book's introduction, which stands its own ground as an eloquent autobiographical essay, Salisbury presents three tenets that through the years have served him well: Welcome a change of pace and direction ("embrace the unexpected," he says); choose what will yield intellectual pleasure; and remember that it is not the topic that one selects for investigation that is most crucial but rather what one does with it.

For Salisbury, working at Washington University has been a constantly rewarding endeavor. "The department has been an intellectually exciting and personally rewarding place to work. We have grown in size and more importantly in stature as the University has. For the past 25 years, our department has been rated in the top 20 nationally. And it has held that position. We've been able to attract good graduate students, serve them well, and send them off. Washington University and I have a longstanding relationship that I value."

— Cynthia Georges



Robert Salisbury, Ph.D., Sidney W. Souers Professor of American Government, with Carla Molette Ogden, doctoral candidate in political science.

"If you get caught up in the day-to-day minutiae of politics and campaigning, you lose the big picture."

of interest group formation and policy process is reflected in *Interest Group Politics in America* (1970) and *Governing America: Public Choice and Political Action* (1973).

In the past four decades, Salisbury has contributed to some 25 books on American politics and has written and/or presented more than 60 scholarly papers. He has served as consultant to the Office of Economic Opportunity, the National Institute of Health, the U.S. Office of Education, U.S. Conference of Mayors, the House Democratic Study Group, and the Missouri Commission on Local Government, among other organizations.

Professional posts have included vice president of the American Political Science Association, book review editor of the *American Political Science Review*, and president of both the Midwest and the Missouri Political Science associations. In 1990, Salisbury was named a Guggenheim Fellow and a Resident Scholar at the Rockefeller Foundation Study and Conference Center in Italy. He holds the title of affiliated scholar at the American Bar Foundation.

Yet through the years of rigorous research and publishing, chairing the political science department (two stints, 1966-73 and 1986-92), and serving on editorial boards of several scholarly publications, Salisbury also has flourished in the classroom. He is greatly admired for establishing a lively environment and engaging rapport with students.

"Salisbury has been one of the strongest drawing cards not only for the department, but also for the University in general," offered longtime friend and colleague Lucius Barker, William Bennett Munro Professor and chair of the political science department at Stanford University. "He has set the tone for the department, which is known for being very collegial yet very scholarly."

Virginia Gray, professor of political science at the University of Minneapolis, recalls her years as a Washington

Calendar

Nov. 17-Dec. 3



Exhibitions

Biannual Faculty Exhibition. Features about 80 works by art and architecture faculty. Through Dec. 18. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

"Facing Pages." Commemorates the 30th anniversary of the University's Modern Literature Collection, an archival treasure of 20th-century literary manuscripts, correspondence and printed works. Through Jan. 31. Special Collections, level five, Olin Library. Hours: 8:30 a.m. to 5 p.m. weekdays. 935-5495.



Films

Thursday, Nov. 17

7 and 9 p.m. Filmboard Classic Series. "The Third Man" (1949, B&W). Room 100 Brown Hall. Cost: \$3. **For 24-hour Filmboard Hotline, call 935-5983.**

Tuesday, Nov. 29

7 p.m. Chinese Film Series. "Hibiscus Town," with English subtitles. Sponsored by the Dept. of Asian and Near Eastern Languages and Literatures. Room 219 South Ridgley Hall. 935-5156.

Wednesday, Nov. 30

7 and 9 p.m. Filmboard Classic Series. "You Were Never Lovelier," (1942, B&W). (Also Dec. 1, same times.) Room 100 Brown Hall. Cost: \$3.

Friday, Dec. 2

7 and 9:30 p.m. Filmboard Feature Series. "A Muppet Christmas Carol" (1992). (Also Dec. 3, same times.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series. "Willy Wonka and the Chocolate Factory" (1971). (Also Dec. 3, same time.) Room 100 Brown Hall. Cost: \$3.



Lectures

Thursday, Nov. 17

11:15 a.m. Social work seminar. "Assessing Validity and Reliability," Lee N. Robins, prof. of social sciences in psychiatry. Second Floor Conference Room, Administrative Center, 1130 S. Hampton Ave. 935-5741.

Noon. Genetics seminar. "Genetic Approaches to the Identification of Disease Genes," Daniela S. Gerhard, assoc. prof., depts. of Genetics and Psychiatry. Room 816 McDonnell Medical Sciences Bldg.

Noon. Pediatrics seminar. "Cellular Expression of the Complement C5a Anaphylatoxin Receptor: Unexpected Sites of Synthesis," Rick A. Wetsel, asst. prof., depts. of Pediatrics and Molecular Microbiology. Third Floor Aud., St. Louis Children's Hospital. 454-2285.

4 p.m. Chemistry seminar. "Organometallic Chemistry at Adjacent Metal Centers," Martin Cowie, U. of Alberta, Canada. Room 311 McMillan Lab. 935-6530.

4 p.m. History talk. "Latin America: Capital Cities and Modernization," Richard J. Walter, prof. and chair, Dept. of History. Cohen Lounge, Room 113 Busch Hall.



DAVID MULKERIN

Washington University Dance Theatre, which is designed and produced almost entirely by students, will present seven works of modern dance and ballet at 8 p.m. Dec. 2 and 3 and at 2 p.m. Dec. 4 in Edison Theatre.

Dance concert features new works, wide range of styles

The Washington University Dance Theatre will present a concert of modern dance and ballet at 8 p.m. Dec. 2 and 3 and at 2 p.m. Dec. 4 in Edison Theatre.

Dance Theatre, an annual event sponsored by the University's Dance Program, provides an array of dance works choreographed by faculty and guest choreographers and performed by student dancers. Dance Theatre is designed and produced almost entirely by students, supervised by Bonnie Kruger, coordinator of the design/technical theatre program, and Rick Kuykendall, technical director.

Artistic directors for the program, which features seven dance works, are Mary-Jean Cowell, Ph.D., associate professor, and Christine O'Neal, artist in residence, Performing Arts Department.

Cowell, coordinator of the department's dance program, will present two pieces.

"Vagaries," danced by senior Michel Yang to the music of Franz Liszt, is a "whimsical study of emotional vacillations."

"Beyond Incidence" is a work substantially reorchestrated from a 1990 work titled "Incidence." Costumes are designed by Kruger and Cowell, and the music is by George Chave.

O'Neal, also director of the University's ballet program, will present two pieces.

"Downstage Right," with music by Edvard Grieg and Ren Dupere, is performed by six students who have rehearsed as an improvisational dance ensemble for several months. "Journey," a ballet by O'Neal, is accompanied by the music of the Kronos Quartet.

Matthew Mulkerin, a 1992 Washington

University graduate and dancer with Mid-American Dance Co., will present a piece called "Quiet Night: Remembering," danced by junior Tam Lê to the music of a traditional Japanese bamboo flute.

"Just Before Waking," as choreographed by artist in residence David Marchant, creates "landscapes of space, energy and motion" to music by James C. Romig.

"Timing is Everything" is a sophisticated rhythm and tap dance piece by Jan Feager, a dance teacher at Webster University and the Ballet Conservatory in St. Louis. Feager is the founder and artistic director of Tapischore, a rhythm tap dance company that has performed nationally.

Tickets are \$8 for the general public and \$6 for students, senior citizens and Washington University faculty and staff. For more information, call 935-6543.

4 p.m. Molecular oncology seminar. "The Role of p53 in Apoptosis," Scott Lowe, Center for Cancer Research, Massachusetts Institute of Technology, Cambridge. Third Floor Aud., St. Louis Children's Hospital.

4:15 p.m. Philosophy-Neuroscience-Psychiatry Program colloquium. "Is There Room for Representation in Dynamic Control Structures?" Rick Grush, graduate student, Dept. of Philosophy, U. of California, San Diego. Stix International House living room. 935-5119.

Friday, Nov. 18

9:15 a.m. Pediatric Grand Rounds. "Technology Assessment," Benjamin Littenberg, assoc. prof. of medicine and director, Program in General Medical Sciences. Clopton Aud., 4950 Children's Place. 454-2706.

11 a.m. Microbial pathogenesis seminar. "The Molecular Basis of HIV Pathogenesis," J. Victor Garcia, asst. member, Dept. of Virology, St. Jude Children's Research Hospital, Memphis, Tenn. Room 775 McDonnell Medical Sciences Bldg.

Noon. Cell biology and physiology seminar. "The Digestive Vacuole of *Plasmodium falciparum*: Metabolic Headquarters and Choice Drug Target," Daniel Goldberg, asst. prof. of medicine and molecular microbiology. Cori Aud., 4565 McKinley Ave.

Noon. Environmental engineering seminar. "OSHA's Proposed Indoor Air Quality (IAQ) Standard — An In-depth Look at the Standard and Its Impact on Building, Owners, Managers and Tenants," Nicholas P. Neumann, NPN Environmental Engineers Inc. Room 226 Urbauer Hall. 935-8590.

Noon. Left Forum presentation. "Popular Organizations in Haiti: Their Importance, Their Potential," Bob Corbett, Haiti activist

and prof., Dept. of Philosophy, Webster U., St. Louis. Women's Bldg. Lounge. 935-6808.

Noon. Physics brown bag seminar. "Phase Transitions in the Early Universe," Michael Ogilvie, assoc. prof., Dept. of Physics. Room 241 Compton Hall. 935-6276.

1 p.m. Solid state engineering and applied physics seminar. "Radiation Modes in Optical Fibers and Their Use in Chemical Sensors," Marcelo Cordaro, graduate student in electrical engineering. Room 305 Bryan Hall.

2 p.m. Molecular biology thesis defense. "Translational Regulation of Na,K-ATPase Expression in Epithelial Cells," Kent Grindstaff, graduate student. Room 521 Medical Library. 362-3365.

3 p.m. Electrical engineering colloquium. "Huygens' Principle as an Outgrowth of Signal Processing," Richard E. Blahut, prof., Dept. of Electrical Engineering, U. of Illinois, Urbana-Champaign. Room 305 Bryan Hall.

4 p.m. American Culture Studies lecture and book signing. "Do or Die," Martino Barrat, photographer, New York. Includes photos of boxers in Harlem. Room 149 McMillan Hall. 935-5216.

4 p.m. Architecture Steadman II Lecture. "AALTO: Architecture, Landscape and Urbanism," David Block, graduate student. Room 116 Givens Hall. 935-6200.

4 p.m. Earth and planetary sciences colloquium. "The Chemistry of Interplanetary Dust Particles: Evidence for a New Type of Extraterrestrial Material," George Flynn, prof., Dept. of Physics, State U. of New York, Plattsburgh. Room 362 McDonnell Hall. 935-5610.

4 p.m. Hematology seminar. "Analysis of Hematopoiesis From the Study of Mutant

Mice," Celeste Simon, asst. prof. of medicine and molecular genetics and cell biology and asst. investigator, Howard Hughes Medical Institute, U. of Chicago. Room 8841 Clinical Sciences and Research Bldg.

4 p.m. Music lecture. "Under the Lindentree," Garry Ziegler, doctoral candidate in musicology, Dept. of Music. Room B-8 Blewett Hall. 935-5581.

7:30 p.m. Earth and planetary sciences seminar. "Exploration of Mars — An Update," Raymond E. Arvidson, prof. and chair, Dept. of Earth and Planetary Sciences. Room 162 McDonnell Hall. 935-4614.

Monday, Nov. 21

Noon. Neurological surgery research seminar. "Gene Delivery to Neurons: Is Herpes Simplex Virus the Right Tool for the Job?" David A. Leib, asst. prof., depts. of Ophthalmology and Visual Sciences and Molecular Microbiology. Schwarz Aud., First Floor Maternity Bldg.

Noon. Neuroscience seminar. "Electroreception in the Platypus: Neuroethology of a Novel Mammalian Sensory System," Jack Pettigrew, director, Vision, Touch and Hearing Research Center, U. of Queensland, Australia. Room 521 Medical Library.

Noon. Molecular biology and pharmacology seminar. "Structure Function Studies of Gonadotropins: Design of a Novel Class of Analogues by Site-directed Mutagenesis," Irving Boime, prof., depts. of Biology and Pharmacology and Obstetrics and Gynecology. Pharmacology Library, Room 3907 South Bldg.

2 p.m. Neurosciences program thesis defense. "Substance P-induced Inositol Phosphate Signaling and Desensitization at

Wild-type and Truncated Neurokinin-1 Receptors," Rita Raddatz, graduate student. Pharmacology Library, Room 3907 South Bldg.

3:30 p.m. Electrical engineering colloquium series. "Algebraic Coding Theory in One and Two Dimensions: 1. Properties of the One-dimensional Fourier Transform. 2. The Fourier Transform and Cyclic Codes," Richard E. Blahut, prof., Dept. of Electrical Engineering, U. of Illinois, Urbana-Champaign. Room 305 Bryan Hall. (Continues Nov. 30.) 935-4830.

4 p.m. Biochemistry and molecular biophysics seminar. "Mechanisms at the DNA Replication Fork," Ulrich Hubscher, Institut für Pharmakologie und Biochemie, U. of Zurich-Irchel, Switzerland. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Biology and biomedical sciences seminar. "Heterochromatin and Somatic Pairing in *Drosophila*," Steven Henikoff, member, Fred Hutchinson Cancer Research Center, Seattle, Wash. Room 322 Rebstock Hall. 935-7569.

4 p.m. Immunology seminar. "Interleukin 6 Is Required for the Regulation of Committed Progenitors and Stem Cells of the Hematopoietic System," Jose Gutierrez-Ramos, asst. prof. of genetics, Center for Blood Research, Harvard Medical School. Third Floor Aud., St. Louis Children's Hospital. 362-8748.

5 p.m. Biochemistry and molecular biophysics seminar. "Studies on Thrombin and Cooperativity," presented by the research group of Enrico Di Cera, asst. prof., Dept. of Biochemistry and Molecular Biophysics. Room 2918 South Bldg.

Tuesday, Nov. 22

8:45 a.m. *Drosophila* discussion group. "Heterochromatin Distance Effects," Steve Henikoff, member, Fred Hutchinson Cancer Research Institute, Seattle, Wash. Room 212 McDonnell Medical Sciences Bldg.

9 a.m. Psychiatry seminar. "New Insights in Compulsivity and Impulsivity," Eric Hollander, assoc. prof. of psychiatry, Mount Sinai School of Medicine, New York. Clopton Aud., 4950 Children's Place.

4 p.m. Neurodegeneration and cell death discussion. "Two Recent Papers on Prion Proteins," Davis Harris, asst. prof., Dept. of Cell Biology and Physiology. Room 228 Biotechnology Bldg.

4 p.m. Diabetes research group meeting. "Effects of Hyperglycemia on Metabolism of Cultured Vascular Cells," Wolfgang Graier, prof. and director, Diabetes Angiopathy Research Group, U. of Graz, Austria. Pathology Library, Room 3723 West Bldg.

4:30 p.m. Math colloquium. "On Solutions of the Beltrami Equation," Melkana Brakalova, prof. of mathematics, Hotchkiss School, Lakeville, Conn. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

Wednesday, Nov. 23

8 a.m. Obstetrics and Gynecology Grand Rounds. Morbidity/Mortality Conference. Speaker is Jan Albrecht, instructor and fellow, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place.

Monday, Nov. 28

4 p.m. Biology seminar. "Evolution of Pollination Systems in High Andean *Espeletia* (Asteraceae) and in Guayana Shield Rapateaceae," Paul E. Berry, assoc. curator, Missouri Botanical Garden. Room 322 Rebstock Hall. 935-6287.

Tuesday, Nov. 29

12:10 p.m. Physical therapy brown bag seminar. "Percent Maximal Voluntary Contraction Required for Activities of Daily Living," Scott D. Minor, asst. prof., Program in Physical Therapy. Classroom C Forest Park Bldg., 4444 Forest Park Blvd.

4 p.m. Diabetes research group meeting. "Molecular Regulation of Triglyceride Metabolism in Diabetes," Clay Semenkovich, asst. prof., depts. of Medicine and Cell Biology and Physiology. Pathology Library, Room 3723 West Bldg. 362-7435.

Wednesday, Nov. 30

8 a.m. Obstetrics and Gynecology Grand Rounds. "Oncogenic Potential of the Y Chromosome," Paul McDonough, prof. and director, Reproductive Endocrine Division, U. of Georgia, Athens. Clopton Aud., 4950 Children's Place. 362-3122.

3:30 p.m. Electrical engineering colloquium series (cont.). "Algebraic Coding Theory in One and Two Dimensions: 3. The Many Decoding Algorithms for Cyclic Codes. 4. Properties of the Two-Dimensional Fourier Transform," Richard E. Blahut, prof., Dept. of Electrical Engineering, U. of Illinois, Urbana-Champaign. Room 305 Bryan Hall. (Refreshments: 3:15 p.m.) 935-4830.

4 p.m. Biochemistry and molecular biophysics seminar. "Interaction of Subunits of G Proteins With Receptors," Ernst Helmreich, prof., Dept. of Physiological Chemistry, U. of

Wurzburg, Germany. Erlanger Aud., McDonnell Medical Sciences Bldg.

6:30 p.m. AIDS presentation and panel discussion. "Overview of Alternative Therapies for HIV/AIDS," David Gold, executive director and treatment issues coordinator, Medical Information Gay Men's Health Crisis. Also speaking is Matt German, former research fellow, Dept. of Infectious Diseases, School of Medicine, and current faculty member, St. Lukes Hospital West. Moore Aud., 660 S. Euclid Ave. To register, call 362-2418.

Thursday, Dec. 1

11:15 a.m. Social work seminar. "Special Population — Kids, Homeless, Inpatients," Elizabeth M. Smith, assoc. prof. of social work in psychiatry. Second Floor Conference Room, Administrative Center, 1130 S. Hampton Ave.

4 p.m. Earth and planetary sciences colloquium. "Detection of Water in the Fireball of Comet Shoemaker-Levy 9," Gordon Bjoraker, planetary scientist, NASA Goddard Space Flight Center, Greenbelt, Md. Room 362 McDonnell Hall. 935-5610.

4 p.m. History talk. "Shaping of the Modern American City," Eric Sandweiss, president, Missouri Historical Society. Cohen Lounge, Room 113 Busch Hall. 935-5450.

4:15 p.m. Philosophy colloquium. Emily Grosholz, poet and prof. of philosophy, Pennsylvania State U., University Park. Stix International House living room. 935-6670.

4:30 p.m. Math colloquium. Title to be announced. Speaker is Hyman Bass, prof. of mathematics, Columbia U., New York. Room 199 Cupples I Hall. 935-6726.

Friday, Dec. 2

Noon. Cell biology and physiology seminar. "Molecular Genetic Studies of Myosin Light Chain," Rex L. Chisholm, Northwestern U. Medical School, Evanston, Ill. Cori Aud., 4565 McKinley Ave. 362-6950.

Noon. Environmental engineering seminar. "When the Engineer Meets the Public: The Principles of Effective Environmental Communications," Robert L. Peirce, Fleishman Hillard Inc., St. Louis. Room 226 Urbauer Hall. 935-8590.

1 p.m. Solid state engineering and applied physics seminar. "An Electromagnetic Technique for Packaging Problem Analysis," Ken Krause, graduate student. Room 305 Bryan Hall. 935-5565.

4 p.m. Architecture lecture. "Recent Work," Michele Arnaboldi, visiting prof., Locarno, Switzerland. Room 116 Givens Hall. 935-6200.

4 p.m. Music lecture. "Dialogues as a Subject in Haydn's Early Symphonies," Richard Will, visiting asst. prof. of musicology. Room B-8 Blewett Hall. 935-5581.

6 and 8:30 p.m. Washington University Association Travel Lecture Series. "Japan — The Bamboo Bends," Willis Henry Moore, history and geography lecturer and part-time faculty member, Chaminade U. of Honolulu and Hawaii Loa College, Hawaii. Graham Chapel. Cost: \$4.50. 935-5212.



Music

Friday, Nov. 18

7:30 p.m. Gospel concert. "Harambee Christian Ministries Fall Concert," sponsored by Student Union and Harambee Christian Ministries. Steinberg Hall Aud. Cost: \$1. 361-6817.

Sunday, Nov. 20

2:30 p.m. Wind ensemble concert. "A Portrait in Time" features The St. Louis Jazz Repertory Quintet. Includes the music of Claude Smith, Dave Brubeck and Ellington/Strayhorn. Saint Louis Art Museum Theatre. 935-5581.

Monday, Nov. 21

8 p.m. Chorus concert. Directed by Robert Ray, program features Franz Joseph Haydn's "Te Deum in C Major" and Ray's "Magnificat." Graham Chapel. 935-5581.

Wednesday, Nov. 30

8 p.m. Jazz band concert. Directed by Chris Becker. The Gargoyle. 935-5581.

Thursday, Dec. 1

8 p.m. Vocal jazz ensemble concert. Performance includes J.S. Bach's "Invention No. 4," "Christmas Time Is Here" by Vince Guaraldi, a waltz by Franz Schubert and "Caro mio ben," with soloist Christine Armistead, lecturer in music. Steinberg Hall Aud.



Performances

Friday, Nov. 18

8 p.m. Performing Arts Dept. presents "The Seagull" by Anton Chekhov, a 19th-century Russian physician. (Also Nov. 19, same time, and Nov. 20 at 2 p.m.) Edison Theatre. Cost: \$8 for the general public; and \$6 for senior citizens, WU faculty, staff and students. 935-6543.

Friday, Dec. 2

8 p.m. Performing Arts Dept. presents Washington University Dance Theatre, an evening of contemporary dance choreographed by faculty and guest artists and performed by students. (Also Dec. 3, same time.) Edison Theatre. Cost: \$8 for the general public; and \$6 for senior citizens, students, faculty and staff. 935-6543.



Miscellany

Friday, Nov. 18

8:30 a.m. Continuing Medical Education conference. "Women's Healthcare Issues '94." Ritz-Carlton Hotel, 100 Carondelet Plaza, Clayton. For schedule, registration and cost info., call 362-6893.

4 p.m. Literary conference. "James Merrill: A Life in Writing." Lecture by Helen Vendler, the Porter University Professor, Harvard U. At 7 p.m., authors Rachel Hadas and Richard Kenney will read from their own as well as Merrill's works. Women's Bldg. Lounge. Conference continues Nov. 19. To register, call 935-5495.

Sports

Compiled by Mike Wolf, director, and David Moessner, asst. director, sports information.

Women's Volleyball

Last Week: Washington 3 (15, 15, 15), Emory 0 (7, 4, 3); Washington 3 (15, 15, 15), Trinity 0 (3, 10, 6)

This Week: Saturday, Nov. 19, NCAA Division III quarterfinal at University of California, San Diego

Season Record: 39-2 (12-0 UAA Champion)

Washington University secured a berth to its eighth consecutive NCAA Division III quarterfinal this weekend by winning the South Regional title at the Washington Field House.

Men and Women's Cross Country

Last Week: at NCAA Division III Midwest Regionals — Women's finish: 5th of 29; Men's finish: 8th of 31

This Week: Saturday, Nov. 19, NCAA Division III Championship, Bethlehem, Pa.

Senior Ryan Thomas, Orefield, Pa., and sophomore Jerylin Jordan, Kaneohe, Hawaii, earned tickets to next Saturday's NCAA Division III Championship by posting sterling performances at the Midwest Regionals. Jordan finished sixth in the field of 175 women. Thomas placed 24th out of 185 men.

Men and Women's Swimming/Diving

Last Week: Men: Washington 126, Millikin 76; Women: Washington 116, Millikin 83

Saturday, Nov. 19

9:30 a.m.-5:30 p.m. Education and homosexuality conference. Offers an opportunity for concerned educators, parents and students to discuss consequences of homophobia in the classroom. Sponsored by The Center, the Gay, Lesbian and Bisexual Alliance of Washington University and PREP Education Fund Inc. January Hall. Cost: \$10. To register, call 725-3122.

11 a.m. Literary conference. "James Merrill: A Life in Writing (cont.)," with poet Stephen Yenser. Continues at 2 p.m. with a panel discussion. West Campus Conference Center, 7425 Forsyth Blvd. Merrill, author of 11 books of poems and recipient of two National Book Awards and the Pulitzer Prize, will read from his works at 8 p.m. in The May Aud., Simon Hall. To register, call 935-5495.

Monday, Nov. 28

5 p.m. Overseas programs meeting. Mandatory meeting for students going overseas in the spring. Women's Bldg. Lounge. 935-6151.

8 p.m. Literary reading. Lynne Sharon Schwartz, author of *Leaving Brooklyn*, will read from her works. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Tuesday, Nov. 29

5 p.m. Career Networking Reception. Sponsored by Career Center and Student Union. Holmes Lounge, Ridgley Hall.

8 p.m. International Writers Center reading. Emily Grosholz, poet and prof. of philosophy, Pennsylvania State U., University Park, will read from her works. West Campus Conference Center, 7425 Forsyth Blvd. Cost: \$5; free for senior citizens and students with valid ID. 935-5576.

Wednesday, Nov. 30

8 p.m. Writers' colloquium. Led by Emily Grosholz, poet and prof. of philosophy, Pennsylvania State U., University Park. Hurst Lounge; Room 201 Duncker Hall. For more info., call 935-6670.

Friday, Dec. 2

Office of Continuing Medical Education seminar. "Twelfth World Congress of Endourology and SWL and Tenth Basic Research Symposium." Through Dec. 6. Adam's Mark Hotel, St. Louis. For more info. and to register, call 362-6893.

This Week: Friday-Saturday, Nov. 18-19, at Grinnell College/Gleysteen Relays, Grinnell, Iowa

Season Record: Men: 3-1; Women: 3-1

Men's Basketball

This Week: 6 p.m. (EST) Friday, Nov. 18, vs. Illinois Wesleyan University (at DePauw Tip-off Tourney), Greencastle, Ind.; 2 or 4 p.m. (EST) Saturday, Nov. 19, vs. DePauw or Beloit College, Greencastle, Ind.; 3 p.m. Wednesday, Nov. 23, vs. Rhodes College, Field House

Season Record: 0-0

Women's Basketball

This Week: 8 p.m. Friday, Nov. 18, vs. Blackburn College (at Illinois Wesleyan Tip-off Tourney), Bloomington, Ill.; 1 or 3 p.m. Saturday, Nov. 19, vs. Illinois Wesleyan or DePauw, Bloomington, Ill.

Season Record: 0-0

Men's Soccer

After winning their fifth UAA title in eight seasons, seven Bear players were named to the all-association team and Coach Ty Keough and his assistants were named UAA Coaching Staff of the Year.

Women's Soccer

Closing the season with a 5-2-1 run, the Bears placed two players on the 1994 all-UAA first-team squad.

'Northern Exposure' town doctor billed as University alumnus

Washington University is slated for prime-time exposure in the form of the Emmy Award-winning CBS television series "Northern Exposure."

Fans of the Monday night show probably already are aware that a new doctor is coming to the fictitious town of Cicely, Alaska. What they don't know is that his credentials — according to the script writer — include a bachelor's degree from Washington University in St. Louis.

The new character, Phillip E. Capra, M.D., will be introduced in the Nov. 28 episode, which airs at 9 p.m. CST. Final editing of this episode was still taking place at Record press time, but according to the production department, the show opens with the new doctor and his wife driving into town for the first time in a four-wheel-drive vehicle that has a Washington University decal on the back window. The two are listening to the local radio station when they hear Chris, the disc jockey, talking about "Doc Capra," played by Paul Provenza.

The script, written by Jeff Melvoin, calls for Chris to say, "Our new medicine man is a graduate of Washington University in St. Louis and UCLA medical school."

When asked why he selected Washington University, Melvoin replied, "I know a lot of great people who graduated from Washington University."

Our newest "alum" was sent a Washington University sweatshirt, T-shirt and baseball cap, with hopes that he would wear them on the show; the wardrobe department says that he will in future episodes.

There is something else to look for in future episodes. The prop department requested a Washington University diploma for Capra that will hang in his office. University Registrar Stuart Yoak agreed to send one, but was careful to add in fine print at the bottom of the diploma: "Not an official diploma; prepared for theatrical purposes."

'Stone Soup' — from page 1

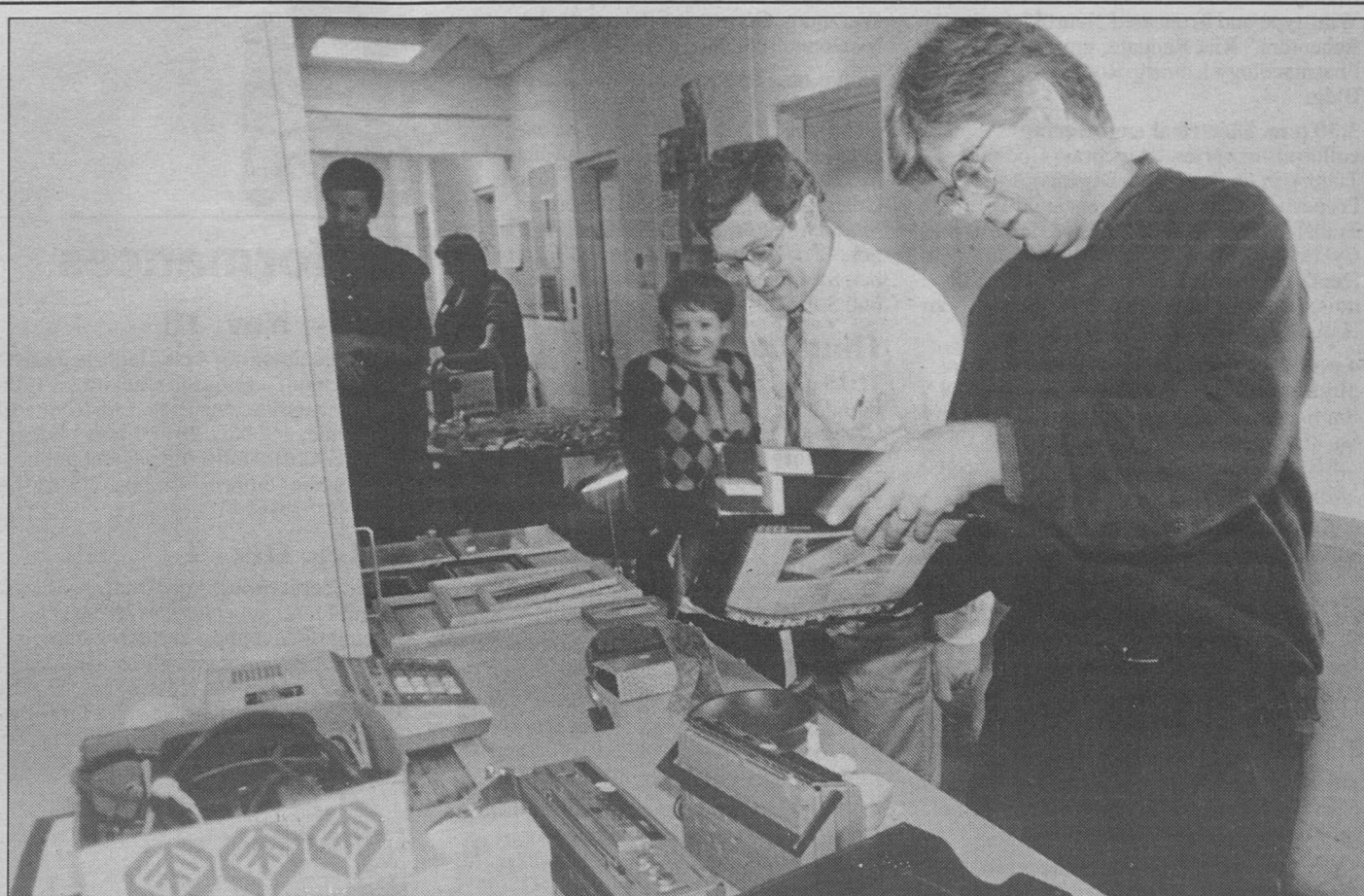
Garrity and other organizers hope "Stone Soup" will encourage Washington's diverse student groups to unite and help others. The project "will unify the campus," he said, noting that such groups as the Association of Black Students have voiced their intentions to help. "Stone Soup" is an excellent way for groups or individuals to reach out to the community, said Garrity.

Organizers also are launching a clothing drive for the homeless and need jeans, socks, shoes, blankets, heavy sweatshirts, coats, hats and gloves. Bins to donate clothing are located in residence hall laundry rooms. Garrity said plans are under way for the bins to be distributed throughout the campus, once the group's food efforts are fully implemented.

For more information on "Stone Soup," call Garrity at 725-3358 or Koshner and Lubelchek at 726-6177.

An expanded story on "Stone Soup" will appear in the Dec. 1 issue of the Record.

— Carolyn Sanford



Clark Cunningham (foreground) and Ron Levin, both professors of law, hunt for treasure at the School of Law's second annual rummage sale, held Nov. 2. Proceeds from the sale benefit the University's United Way campaign. The University is trying to meet its goal of \$287,225, said Bob Franklin, the University's campaign chair. Employee contributions should be sent to United Way Campaign Chair, Campus Box 1056.

'Rootfuel' may reduce respiratory illnesses in Navaho Nation — from page 1

of the Western Social Science Association and the Association for Arid Lands Studies, held last spring in Albuquerque, N.M. In the paper, they discussed how the Navajo Nation could use rootfuel. Comprising northwestern New Mexico, northeastern Arizona and a tiny sliver of southeastern Utah, the Navajo Nation is equal in size to West Virginia and is the largest Native American reservation in the United States.

In their DOE study, the researchers seek to understand the health impact of current Navajo fuel-use, test rootfuel from the southwestern U.S. species *Cucurbita foetidissima*, and build awareness of indoor-smoke air pollution hazards.

The rootfuel plants do not grow anywhere on the reservation. To obtain seed, Shultz and Bragg chose wild plants near Albuquerque, the closest area to the reservation where the plants grow naturally and where soil conditions most closely match those on the Navajo Nation. This fall, Shultz and Bragg will evaluate a quarter-acre plot of rootfuel planted on the reservation last spring by collaborating agronomists Daniel Smeal and E. J. Gregory at New Mexico State University's Science Center in Farmington.

Shultz and Bragg also will evaluate the results of a line-source sprinkler method that is keeping the plants moisturized.

Recently the roots were harvested and evaluation began regarding their weight, condition and their potential for household fuel use.

"Right now prospects look promising for growing rootfuel in a cost-effective manner on the Navajo Nation," Shultz said. "While we are evaluating a small plot, it's important to understand that the project can be scaled upward to include hundreds, even thousands

of acres. We're doing a close analysis of need for rootfuel here, and every indication so far shows that this clean-burning biofuel will probably help the residents."

Respiratory illness link

In 1992, the World Health Organization identified indoor air pollution from smoke as one of the world's chief health problems. Worldwide, more children die from respiratory infections than from diarrhea. Smoke from wood, other biomass fuels and coal has been linked in numerous studies to acute respiratory infections, chronic obstructive pulmonary disease and chronic bronchitis, especially among women and young children. Reproductive problems, including low birthweight, stillbirths and spontaneous abortions, also have been related to high levels of carbon monoxide

fuels, but they're expensive and unavailable to most rural people."

The most compelling evidence that a cleaner fuel is needed comes from a study of 58 Navajo children under 2 years of age who were exposed to smoke from a wood stove. Compared with other children from homes with modern fuels, the presence of the stoves increased chances of contracting serious lower respiratory tract illness by almost five times.

Women at high risk

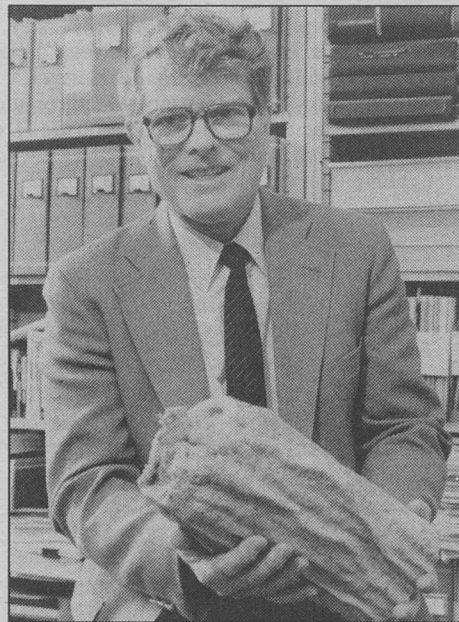
Over five years and on three continents, Shultz and Bragg have spread the word on rootfuel's potential to address seven serious problems in poor nations. These problems are:

- Illnesses due to woodsmoke, with women and small children — especially little girls — afflicted much more than men or boys.
- Rural women's laborious woodfuel-scavenging trips, costing them time away from family and community responsibilities.
- The misuse in rural areas of animal dung and crop residues for fuel instead of for fertilizer.
- As trees disappear, escalating costs of marketed woodfuel, a hardship borne mainly by poor rural immigrants to cities.
- Increasing urban air pollution as city populations grow from rural immigration; the new residents burn wood because they cannot afford cleaner burning fuels.
- The indiscriminate devastation of woodlands to provide charcoal and woodfuel to nearby cities.
- The multitude of land degradation and economic problems that go hand-in-hand with deforestation, resulting in the deforested region's inability to support human populations on eroded land that has lost its topsoil.

Women and girls, both in the Navajo Nation and in other areas of the world, bear the brunt of woodsmoke-related problems because in these, as in most cultures, they are the ones who most often prepare the meals and stay indoors. Accordingly, Shultz and Bragg have introduced rootfuel on three continents to women with the intent that they will test the effectiveness of rootfuel and, if they like it, spread the concept to neighbors and local policy-makers.

"It is a disturbing thing to see poor women scavenging deforested areas to gather what little wood is available, and it's sadder yet to see high incidences of health problems among women and children from woodsmoke," Shultz said. "As such, we advocate women-centered development strategies for rootfuel. They must be included in learning about and testing rootfuel and other potentially useful ideas in their communities. In the Navajo Nation, rootfuel's adaptation will be highly dependent on women."

— Tony Fitzpatrick



Eugene B. Shultz, Ph.D., discovered that roots of a Mexican plant could function as fuel.

in the blood from exposure to smoky fires.

In the Navajo Nation, the use of wood and coal is linked to severe respiratory illness because of leaky stoves and narrow and faulty flues that provide poor draft. Traditional open-fire heating and cooking with only a ceiling hole for ventilation is disappearing in Navajo traditional dwellings called hogans. Still, metal stoves that burn wood and coal are very common. Shultz points to the 1990 Census, which shows 54 percent of households in the Navajo Nation heat with wood and 7 percent with coal. And he noted that coal use is on the increase.

"Anecdotal observations indicate that use of wood and coal is higher, especially in remote areas," he said. "The use of coal is definitely rising because it's being provided free for home heating use to Navajo people from mines on the reservation. Natural gas, electricity, LP gas are cleaner, more modern alternatives for household

Campus Watch

The following criminal incidents were reported to the Hilltop Campus Police Department Nov. 7-13. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

Nov. 7

11:55 p.m. — A peace disturbance was reported on the first level of the McMillan and Eliot halls loading dock when two SPANN employees got into an argument. Both were taken into custody and released.

Nov. 8

11 a.m. — A student's backpack was reported stolen from the hallway outside of Room 201 Crow Hall sometime between 10:45 and 10:55 a.m.

Nov. 9

4:51 p.m. — A stolen automobile was recovered in the first level of the Wohl parking garage. The automobile had been reported stolen from the 4200 block of Moffit in St. Louis sometime between 2 and 2:45 p.m.

Nov. 10

9 a.m. — A student's automobile was reported stolen from the first level of the Wohl parking garage sometime between 9 a.m. Nov. 9 and 7:30 a.m. Nov. 10.

2:21 p.m. — A computer belonging to the African and Afro-American Studies Program was reported stolen from Room 214 Duncker Hall sometime between 3:45 p.m. Nov. 4 and 2:02 p.m. Nov. 10.

Nov. 12

2:19 a.m. — A sign was reported stolen from the roof of a delivery vehicle parked on Shepley Drive in front of Umrath Residence Hall at 12:05 a.m.

3:43 a.m. — A stereo system component was recovered on the sidewalk just south of Mallinckrodt Center.

Introducing new faculty members

Hilltop Campus:

Douglas C. Schmidt, Ph.D., assistant professor of computer science, comes from the University of California in Irvine, where he received a doctorate in computer science this year. His research focuses on the analysis of techniques that facilitate development of high-performance distributed communications systems in parallel processing. He received bachelor's and master's degrees in sociology from the College of William and Mary in Williamsburg, Va., in 1984 and 1986, respectively. He also received a master's degree in computer science in 1990 from the University of California in Irvine.

Medical Campus:

Mario Castro, M.D., assistant professor of medicine, comes from the Mayo Graduate School of Medicine at the Mayo Clinic in Rochester, Minn., where he was a pulmonary/critical care fellow. He also is director of the Pulmonary Function Laboratory and assistant director of the Asthma Center, both at Barnes West Hospital. His research interests include asthma and inflammation in pulmonary diseases. He received an undergraduate degree in biology and a medical degree from the University of Missouri in Kansas City through a joint degree program that ended in 1988.

Douglas E. Coplen, M.D., assistant professor of surgery, comes from the Children's Hospital of Philadelphia, where he was a fellow in pediatric urology. His research focuses on the study of normal and abnormal fetal bladder function. He received a bachelor's degree in chemistry in 1981 from Wabash College in Crawfordsville, Ind., and a medical degree in 1985 from the Indiana University School of Medicine.

Samuel Klein, M.D., associate professor of medicine and director of the nutrition section at the School of Medicine, comes from the University of Texas Medical Branch in Galveston, where he was an associate professor of medicine and preventive medicine. His research interests include the regulation of fat metabolism in obesity, substrate metabolism in the elderly and metabolic alterations in patients with cancer. He received a bachelor's degree in biology from Brandeis University in Waltham, Mass., in 1974, a medical degree from the Temple University School of Medicine in Philadelphia in 1979, and a master's degree in nutritional biochemistry and metabolism from the Massachusetts Institute of Technology in 1984.

Michael R. Lieber, M.D., Ph.D., associate professor of pathology and of medicine and of biochemistry and molecular biophysics, comes from Stanford University, where he was an associate professor of pathology. His research focuses on how mistakes in enzyme regulation of antibody genes lead to leukemia and lymphoma. Lieber received bachelor's degrees in biology and biochemistry in 1977 from the University of Missouri in Columbia. He received a doctorate in biochemistry in 1981 and a medical degree in 1983 from the University of Chicago School of Medicine.

Elizabeth Gerard McFarland, M.D., assistant professor of medicine at the School of Medicine's Mallinckrodt Institute of Radiology, comes from Massachusetts General Hospital in Boston, where she completed a fellowship in abdominal interventional radiology. Her research focuses on the use of magnetic resonance imaging, computed tomography and ultrasound in evaluating diseases of the genitourinary and gastrointestinal systems. She received a bachelor's degree in biology from the University of California in Irvine in 1982 and a medical degree from the University of California in San Diego in 1987.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

Steven R. Bergmann, M.D., Ph.D., associate professor of medicine and of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, received a \$737,006 three-year grant from the National Heart, Lung and Blood Institute for a project on "Optimization of Positron Emission Tomography Estimates of Myocardial Perfusion." ...

Eric J. Brown, M.D., professor of both medicine and cell biology and physiology and associate professor of molecular microbiology, received an \$848,876 four-year grant from the National Institute of Allergy and Infectious Diseases for a project titled "Cytoskeleton and Signal Transduction in Ospt Defense." ...

A 1993 book written by **Angela Miller**, Ph.D., associate professor of art history and archaeology, received the John Hope Franklin Prize from the American Studies Association. The association awards the prize each year for the best published book in the field. Miller's book is titled *Empire of the Eye: Landscape Representation and American Cultural Politics, 1825-1875*. ...

Joseph L. Price, Ph.D., professor of anatomy and neurobiology, received an \$885,836 four-year grant from the National Institute on Deafness and Other Communication Disorders for a project titled "Studies on the Olfactory Cortex." ...

Richard M. Sommer, visiting assistant professor of architecture, received the Arthur W. Wheelwright Traveling Fellowship. The \$40,000 annual fellowship is awarded to a graduate of Harvard University's Graduate School of Design. It provides support to individuals whose work demonstrates leadership potential in the field. Sommer's proposed study is titled "Traces of the Iron Curtain — A Creative Re-description." It will survey changes within urban landscapes in Germany and Eastern Europe during the postwar period.

Speaking of

During the National Association of Social Workers' annual meeting in Nashville, Tenn., **Letha Chadiha**, Ph.D., assistant professor of social work, **Dana Klar**, J.D., director of the Center for American Indian Studies at the George Warren Brown School of Social Work, and **Virginia Long**, a master's degree candidate in social work, delivered a session on "Fostering Mutual Understanding of Human Diversity." In addition, Chadiha and Klar served as panelists for a session on "Ethics in Cultural Diversity" at the Ethics in Caring IV conference hosted by the Deaconess Health System in St. Louis. ...

Larry E. Davis, Ph.D., associate professor of social work, led a discussion on "Black Singles in America" at the Smithsonian Institution in Washington, D.C. The talk, part of a lecture series at the Smithsonian's African American Studies Center, focused on the influence of African-American history on contemporary relationships, as well as other singles issues. ...

At an American Chemical Society's symposium in Washington, D.C., several members of the Department of Chemistry and the Department of Radiology at the School of Medicine's Mallinckrodt Institute of Radiology delivered presentations. They were: **Pong-Fei Hua**, doctoral candidate in chemistry; **A. S. Kirov**, Ph.D., postdoctoral fellow in radiology; **Milorad Korolija**, Ph.D., postdoctoral research associate in chemistry; and **Demetrios G. Sarantites**, Ph.D., professor of chemistry. ...

Tyson seeks volunteers

The Tyson Research Center's Field Science Department is seeking volunteers who are available during the day or late afternoon to assist with environmental education programs for schoolchildren and scouts.

Topics include pond studies, bird banding, forest ecology and spring wildflowers. Training will be provided.

For more information, call the Field Science Department at 935-8430.

During the Missouri Association of Health, Physical Education, Recreation and Dance's annual convention held in Kansas City, Mo., **Lynn Stockman Imergoot**, assistant athletic director, presented a program titled "Helen Manley: A Century Celebration." Manley was the association's founding president. Imergoot also received the Robert Taylor Service Award in recognition of her work with the association. Imergoot serves as co-editor of the group's journal. ...

Jay F. Piccirillo, M.D., assistant professor of otolaryngology and director of the Clinical Outcomes Research Office, delivered a presentation titled "Outcomes for Treatment of Obstructive Sleep Apnea" at the American Academy of Otolaryngology-Head and Neck Surgery's 97th annual meeting in San Diego, Calif. He spoke during the plenary session. ...

Srinivasan Sridharan, Ph.D., professor of civil engineering, visited the Institut für Statik at the University of Hanover in Germany, where he lectured on his recent work on the interactive buckling of stiffened shells. He also lectured at the Dynamik, Ruhr Universität in Bochum, Germany, on the same topic. In addition he spoke on "Imperfection-sensitivity of Stiffened Cylindrical Shells Under Interactive Buckling" at the 12th National Congress of Applied Mechanics in Seattle. ...

Rai Ajit K. Srivastava, Ph.D., research assistant professor of medicine, presented a paper on "Post-transcriptional Regulation of Apoprotein Gene Expression by Estrogen" at the 16th International Congress of Biochemistry and Molecular Biology in New Delhi, India. The American Society for Biochemistry and Molecular Biology awarded him a travel grant to present the paper, which he wrote with **Gustav Schonfeld**, M.D., William B. Kountz Professor of Medicine.

On assignment

John W. Clark, Ph.D., professor of physics, was a visitor at the International Centre

for Theoretical Physics and the Scuola Internazionale Superiore di Studi Avanzati in Trieste, Italy. ...

William W. Clark, Ph.D., professor of physiological acoustics in the Department of Speech and Hearing and a senior research scientist at the Central Institute for the Deaf, served as a consultant on assessing hearing sensitivity in U.S. Navy personnel for the Office of Naval Research and the University of Washington, both located in Seattle. He also lectured on speech and hearing at Western Washington University in Bellingham, Wash. ...

Two School of Architecture faculty members chaired juries for the St. Louis chapter of the American Institute of Architects and Construction Products Council's Annual Design Awards. **Iain A. Fraser**, assistant professor of architecture, chaired the drawing awards jury. **Cynthia Weese**, F.A.I.A., professor and dean, chaired the jury for the 25-year award, which honors buildings completed between 25 and 50 years ago.

To press

William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities and director of the International Writers Center, wrote an introduction titled "Anywhere But Kansas" for *Transgressions — The Iowa Anthology of Innovative Fiction*. His piece titled "Emma Enters a Sentence of Elizabeth Bishop's" was featured in the same anthology, which is published by the Iowa Review at the University of Iowa.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Residence hall renamed in memory of alumnus Frank E. Hurd's bequest

In recognition of a generous bequest from Frank E. Hurd to Washington University, "H" residence hall has been renamed "The Frank E. Hurd Residence Hall." The residence hall is situated on Wydown Boulevard between Hitzeman and Meyer halls. Hurd died in 1989.

Hurd received a bachelor's degree in business administration in 1924 from the John M. Olin School of Business. He was an active member of the school's task force in 1980-81. In recognition of a previous gift, a Simon Hall classroom is named after Hurd.

Reflecting on Hurd's long association with Washington University, Chancellor William H. Danforth said: "We are privileged to have been an important part of Frank's long and rich life. He was an extraordinarily intelligent and talented

individual. His dedication to education and his willingness to share his success with others made him a valuable friend. His gift to the University will enable future students to benefit from his vision and generosity."

Hurd was born in St. Louis in 1903. A firm believer in the value of hard work, he was a successful business executive and real estate developer. He traveled widely and was part of the Marshall Plan Group, whose efforts helped set Europe back on its feet following the devastation of World War II. Throughout his life Hurd kept a watchful and caring eye on America's economic future, according to his daughter Gale Anne Hurd, a movie producer in Los Angeles. Her popular successes include "Aliens," "Terminator" and "Terminator 2: Judgment Day."

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

Here I Stand: Perspective From Another Point of View is the title of a new book by **Norris Kelly Smith**, Ph.D., professor emeritus of art history and archaeology. Art historians have dealt traditionally with perspective in terms of optics and geometry, isolating the construction of the illusion of space as an abstract problem. Now Smith offers a new approach, arguing that the perspective system developed in the early Renaissance was far more than a technical matter. It offered a way for the artist to declare a stand in relation to church and state, to express ideas about the relation of the individual to society. In this richly illustrated study, Smith develops his argument through an imaginative analysis of Brunelleschi's early Renaissance images of the Florentine Baptistery and the Palazzo Vecchio. He moves on to consider works by Paolo Uccello, Albrecht Altdorfer, Emanuel De Witte and Claude Monet. In each instance, Smith explores the complex social and ethical dimensions of their works. (Columbia University Press, New York)

Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990. Note: All positions require three letters of recommendation.

Seismic Deployment Coordinator, Part time 950052. *Department of Earth and Planetary Sciences.* Requirements: Bachelor's degree; knowledge of SUN and Macintosh computer systems; acquaintance with principles of seismology; flexibility in work schedule; ability to travel to seismometer sites. Resumé required.

Cashier, Part time 950094. *Accounting Services.* Requirements: High school graduate; one year cashiering or comparable cash handling experience; ability to organize and account for a heavy, steady volume of checks and cash with a high degree of accuracy; demonstrated customer service skills, including the ability to be courteous under all circumstances; ability to learn two complex computer systems; flexibility to work additional hours as required; flexibility to work at Hilltop or Medical campuses. Clerical tests required.

Administrative Assistant 950100. *Department of Physics.* Requirements: High school graduate, some college preferred; familiarity with computer word processing; knowledge of Microsoft Word on Macintosh computers strongly preferred; typing 55 wpm with accuracy; ability to interact and maintain positive relationships with students, staff and faculty; flexibility; ability to set priorities and work on numerous tasks with constant interruption; attentiveness to detail; self-motivation; ability to work well under pressure and meet deadlines. Clerical tests required.

Library Assistant 950104. *John M. Olin School of Business.* Requirements: Two years of college, bachelor's degree preferred; knowledge of word processing package (all-in-1 and WPS-Plus software, Digital equipment preferred); some knowledge of University Financial Information System preferred; attentiveness to detail; ability to interact well with library users; ability to explain and interpret library policies; ability to work independently with minimal supervision; typing 35 wpm with accuracy. Clerical tests required.

Cashier II 950105. *Accounting Services.* Requirements: One year cash handling experience and one year bookkeeping experience or three semester hours of accounting; courteous; tactful; ability to organize and control a very heavy volume of work; strong customer service skills; willingness to continually improve professional and personal development; proficiency in the operation of office equipment; ability and willingness to learn two complex computer systems; flexibility to work at Hilltop Campus or School of Medicine. Clerical tests required.

Senior Project Leader 950106. *Computing and Communications.* Requirements: Minimum five years data processing experience; ability to design, program and install major data processing systems; ability to lead others in data processing project development; ability to design, write and install MANTIS and COBOL; IBM mainframe and personal computer experience preferred. Resumé required.

Dispatch Supervisor 950107. *University Police.* Requirements: Some college, bachelor's degree preferred; three years recent experience as police or emergency services dispatcher with some supervisory experience preferred; knowl-

edge of electronic security, alarm, and card access systems; experience with automated records information systems, preferably including computer-aided dispatch; some experience with training and staff evaluation preferred; REGIS certification or equivalent preferred. Application required.

Coordinator for Greek Affairs 950109. *Student Affairs.* Requirements: Bachelor's degree; a master's degree in an appropriate discipline preferred; experience in fraternity/sorority affairs, advising student organizations, leadership training and organizational development, or campus activities; good communication skills and the ability to relate effectively with students; willingness to accept odd hours (evenings, weekends); energy; creative imagination; organizational skills; tolerance for ambiguity; and ability to work as part of a team. Resumé required.

Systems Analyst, Part time 950111. *Department of Biology.* Requirements: Bachelor's degree in a computer-related field preferred; familiarity with Appletalk, EtherTalk, TCP/IP Protocols, and network maintenance; experience using Internet and supporting Macintosh systems; knowledge of MACTCP and some public domain TCP/IP; Macintosh software preferred; good interpersonal and organizational skills and ability to explain computer concepts to others; some background in biology, chemistry and/or atmospheric science preferred. Resumé required.

Associate Network Engineer 950115. *Office of the Network Coordinator.* Requirements: Associate's degree in electronics, or equivalent experience; experience installing and maintaining fiber and copper networks; working knowledge of LAN and WANS, UNIX, personal computer and Macintosh; demonstrated problem-solving skills; experience providing support in a highly technical area and commitment to user support; good verbal and written communication skills. Resumé required.

Career Counselor and Special Programs Coordinator, Part time 950117. *University College.* Requirements: Master's degree; counseling training and experience; ability to work with a wide variety of people in a counseling environment; interest in working with adults in transition. This half-time position requires working 20 hours per week, including one evening until 7 p.m. Resumé required.

Administrative Secretary 950118. *University College.* Requirements: Minimum two years of college; ability to meet public in a pleasant and professional manner; ability to handle multiple tasks and establish priorities under pressure; excellent verbal and mathematical skills; typing 50 wpm with accuracy; willingness to work once a week until 7 p.m. (University College is the evening division of the College of Arts and Sciences.) Clerical tests required.

Public Service Assistant 950119. *University Registrar.* Requirements: Some college, bachelor's degree preferred; ability to work well with people in public service environment. Duties: Provide public service assistance to students, faculty, staff and alumni regarding university and registrar procedures, policies and operation; process in-person transcript requests; oversee student identification system, including use of personal computer, mainframe and use of camera equipment. Clerical tests required.

Director of Benefits 950120. *Office of Human Resources.* Requirements: Ten or more years progressively responsible experience in designing, contracting and communicating a variety of employee benefits, as well as complying with their respective requirements; professional certification by credentialing organizations

such as SHRM, CEBS, ACA, etc.; master's degree in human resources, certified public accountant and/or a master's of business administration; ability to train, coach, counsel subordinate human resources staff, customers and peers. Resumé required.

Assistant Outreach Coordinator, Part time 950123. *Department of Biology.* Requirements: Bachelor's degree or equivalent experience; excellent verbal and written skills; strong organizational, planning and interpersonal skills; ability to work independently, exercise sound judgment and handle multiple tasks simultaneously; ability to take projects to closing; ability to deal cordially, accurately and responsibly with the public, especially on the telephone; attentiveness to detail. Resumé required.

Audiovisual Coordinator, Part time 950126. *School of Law.* Requirements: Bachelor's degree; strong organizational skills; experience in the operation of audiovisual equipment; experience in the maintenance and repair of audiovisual equipment preferred; minimum of one year managing an audiovisual department strongly preferred; experience with personal computers preferred; ability to work flexible hours, including evenings.

Department Secretary 950128. *Alumni and Development Programs.* Requirements: Some college, bachelor's degree preferred; strong verbal and written skills; pleasant professional manner with co-workers, volunteers and outside vendors; typing 50 wpm with accuracy; ability to handle multiple tasks in an organized, accurate and timely manner; availability to work overtime as necessary.

Sales Associate 950131. *Campus Stores.* Requirements: High school graduate, some college preferred; good customer relations; ability to stand and lift, display and organize merchandise; cashiering experience; flexibility; typing 20 wpm with accuracy; willingness to work evenings and weekends. Clerical tests required.

Department Secretary 950133. *Alumni and Development Programs.* Requirements: High school graduate, some college preferred; specialized secretarial and business training; minimum of two years office experience, reflecting excellent word processing; typing 40 wpm with accuracy; organizational skills; strong command of the English language; ability to deal with multiple priorities with minimal supervision; willingness to work overtime, including nights, weekends; good personality and grooming. Clerical tests required.

Educational Computer System Manager 950136. *Department of Biology.* Requirements: Bachelor's degree, preferably in computer science; ability to administer biology department's Learning Center for undergraduate majors; extensive knowledge in developing and promoting use of computer-based learning tools, archival and interactive access to classroom documents, and electronic communications between faculty and students, strong experience in networking, systems management; "state-of-the-art" knowledge of personal computer/Macintosh hardware and software; good interpersonal and organizational skills; ability to teach others and to prioritize and function effectively with minimal supervision; ability to cooperate effectively with students and faculty in identification, use and development of educational software; strong initiative and ability to cut through bureaucratic obstacles; ability to accomplish goals within specified timeframes; familiarity with academic environment highly preferred. Part time hours will be considered. Resumé required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resumé to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo., 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Medical Secretary II 950207-R. *Neurology.* Requirements: Two years of college; two years related experience preferred; knowledge of WordPerfect; typing 60 wpm. Will have frequent contact with Alzheimer's disease patients and their families.

Data Assistant 950229-R. *Psychiatry.* Schedule: Part time, 20 hours per week, Mondays through Fridays, flexible hours. Requirements: High school graduate or equivalent, some college preferred; experience with DOS, WordPerfect and data management; research experience preferred; typing 50 wpm.

Special Project Assistant 950254-R. *Finance Office.* Requirements: Two years college or equivalent work experience; knowledge of accounting, finance or data processing preferred. Duties: Computer report production and distribution, quality control for three computer printers and support of department's procurement activities.

Division Administrator 950287-R. *Division of General Medicine.* Requirements: Bachelor's degree; experience with on-line integrated accounting systems and spreadsheet programs preferred. Duties include managing the administrative and support functions; financial operation, grant and human resource management.

Grant Assistant II 950290-R. *Administration.* Requirements: High school graduate or equivalent, college degree preferred; three years business experience, including general accounting; typing 35 wpm; WordPerfect experience preferred.

Systems Operator 950312-R. *Psychiatry.* Schedule: Part time, 20 hours per week. Requirements: Ability to assist systems analyst in hardware/software installation, troubleshooting and minor programming; some college or technical school training preferred.

Secretary I 950333-R. *Radiology.* Schedule: Part time, 20 hours per week, hours negotiable. Requirements: High school graduate or equivalent; three years clerical experience; experience with

Macintosh or IBM Microsoft; typing 45 wpm.

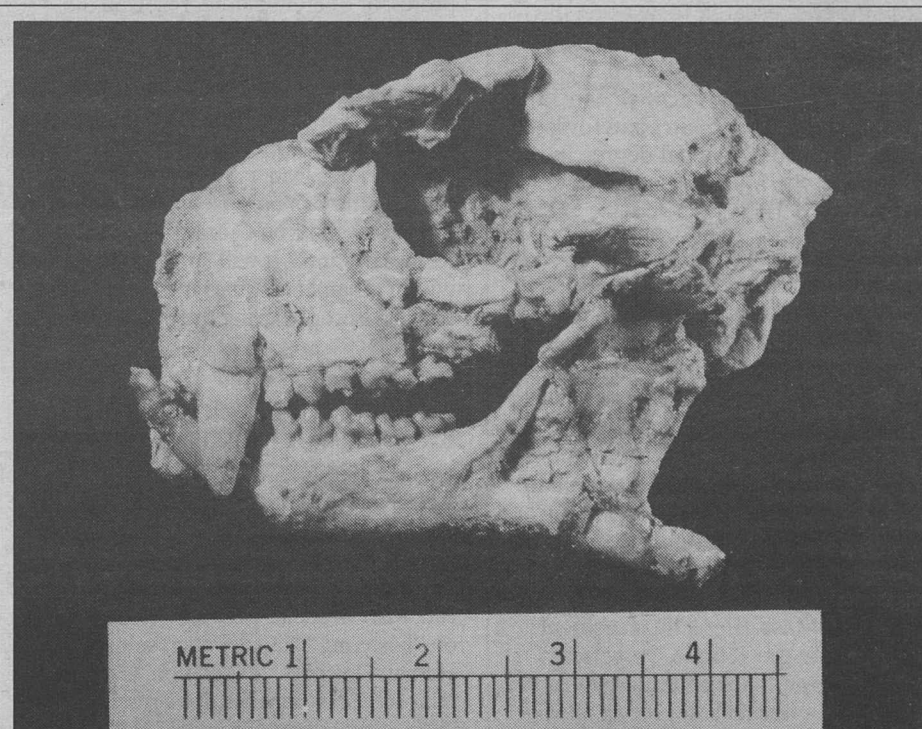
Medical Secretary I 950347-R. *Otolaryngology.* Requirements: High school graduate or equivalent; knowledge of medical terminology; experience with dictaphone; typing 60 wpm; experience with WordPerfect 5.1. Position is located in West County office.

Medical Transcriptionist 950359-R. *Pediatrics.* Requirements: High school graduate or equivalent; two years related experience; experience transcribing medical terminology; WordPerfect experience; typing 70 wpm.

Medical Transcriptionist 950368-R. *Surgery.* Requirements: High school graduate; some secretarial training preferred; one year medical transcriptionist experience preferred; knowledge of word processing and medical terminology; typing 65 wpm.

Administrative Coordinator 950377-R. *Internal Medicine.* Requirements: Bachelor's degree, master's degree preferred; experience with on-line personnel/payroll and budget submission system, FOCUS programs and knowledge of personal computers preferred.

Histology Technician I 950385-R. *Pharmacology.* Schedule: Part time, 20 hours per week. Requirements: High school graduate or equivalent, some college preferred; experience in histologic techniques and willing to train. Duties include preparing histologic sections by processing tissue and embedding, staining and cutting prepared sections.



This modern prosimian skull, recently analyzed by D. Tab Rasmussen, Ph.D., associate professor of anthropology, is characterized by its prominent canine teeth and tooth comb. The canine teeth are much larger than prosimians of a comparable size living today.

Skull traced to Eocene Period — from page 1

was where prosimians originated. Modern prosimians are only found in Africa and Madagascar and were probably less widespread than either tarsiers or anthropoids. Rasmussen and Simon have placed the creature, *Plesiopithecus teras*, in a new primate family, Plesiopithecidae, and superfamily, Plesiopithecoidae. This is only the third superfamily of prosimians known from the Eocene, which dates from 55 million to 35 million years ago.

"We're absolutely sure that it's in the modern prosimian sub-order, but it's so distinctive, especially in the enlarged front teeth, that it certainly deserves to be in its own group," said Rasmussen.

P. teras was nocturnal, had a small brain, good sense of smell, lived in trees (all primates this size did, otherwise they'd have been "scarfed by predators in a second," said Rasmussen), had canine teeth and tooth combs that were much bigger than any comparable modern prosimian, and ate primarily plants — with an occasional insect treat.

"If it were to open its mouth, this fuzzy, big-eyed creature would scare the hell out of you," said Rasmussen. Rasmussen

knows the power of the dagger-like canines, having been bitten several times by modern prosimians in the course of his research.

The Eocene was a period of incredible animal diversity, said Rasmussen. There were "tons" of primates and tropical forests. Eventually, most of these species died out, leaving the modern primates we know today.

The site Rasmussen and Simons excavated, Quarry L-41, is unusual, even for the Fayum, said Rasmussen. In an area of approximately 20 meters by 8 meters, or roughly the size of a large conference room, they have found "literally thousands of bones, hundreds of jaws and dozens of mammal skulls," said Rasmussen. As fragile as skulls are, it is rare to find an intact one dating 35 million years ago. In the quarry, researchers have found at least four other types of anthropoids and two types of prosimians.

In fact, Quarry L-41 also is the only site in the world to have undisputed Eocene remains of anthropoids, said Rasmussen.

— Debby Aronson