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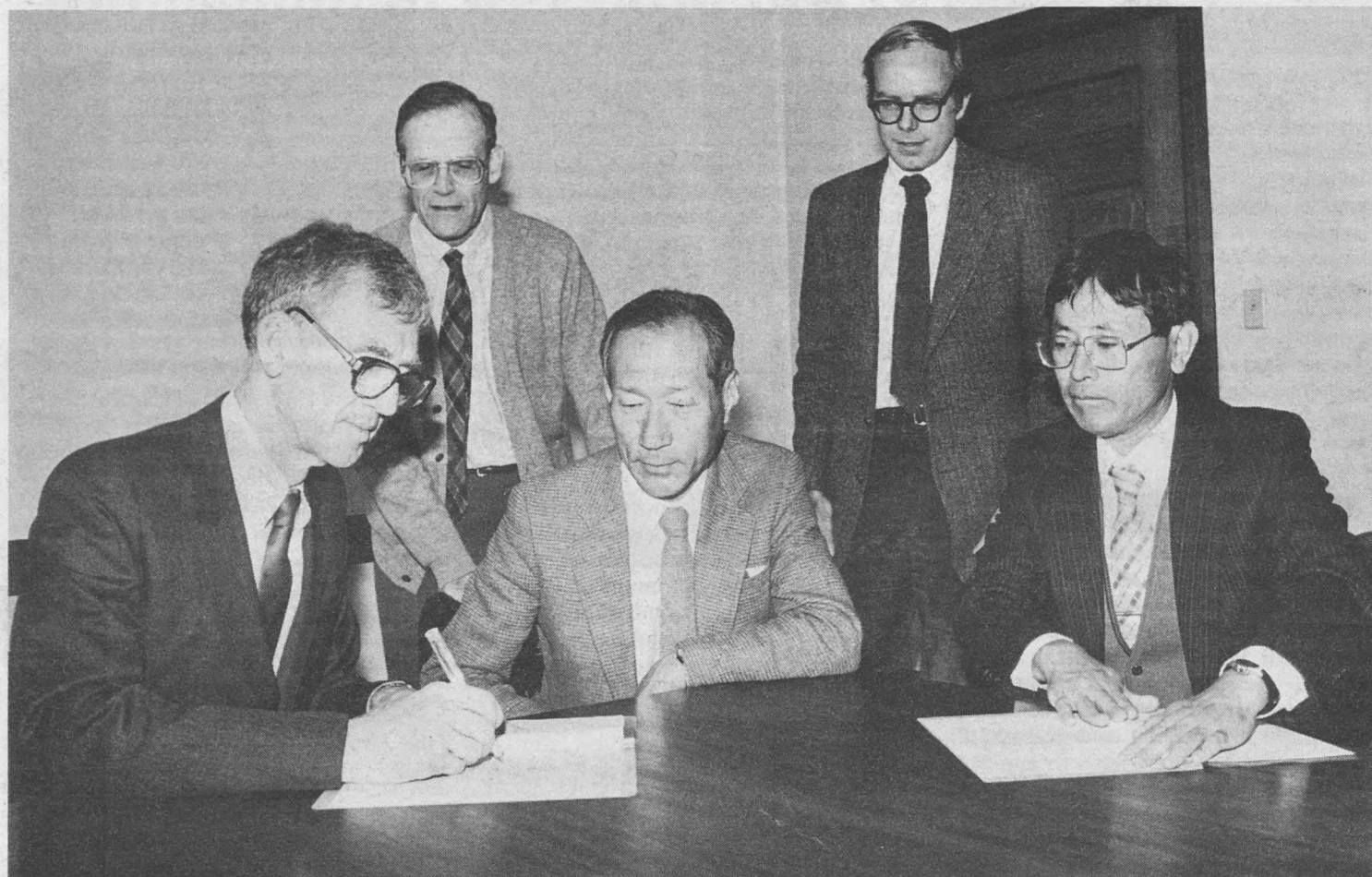
ARCHIVES

Indexed



Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Vol. 12 No. 15/Dec. 10, 1987



Chancellor William H. Danforth signs an agreement that establishes the first genetics collaboration between American and Japanese researchers. The agreement, which is between Washington University and the Institute of Physical and Chemical Research (RIKEN), is to share expertise that may enable scientists to map and sequence the entire human genetic structure. Looking on are (from left): David Schlessinger, director of Washington University's new Center for Genetics in Medicine; Fumio Iamamoto, chief of the Molecular Genetics Laboratory at RIKEN; Maynard Olson, associate director of Washington's genetics center; and M. Ijuin, vice director of the Office for Life Science Promotion at RIKEN.

First U.S.-Japan genetics research agreement signed

Washington University and the Institute of Physical and Chemical Research (RIKEN) of Japan have signed an agreement to share expertise that may eventually enable scientists to map and sequence the entire genetic structure of humans.

The three-year agreement, signed Oct. 27 at Washington University, involves a collaborative effort of the Tsukuba Life Sciences Center of RIKEN and the newly established Washington University Center for Genetics in Medicine. David Schlessinger, Ph.D., professor of microbiology and immunology at Washington University, is director of the center; Maynard Olson, Ph.D., professor of genetics at the University, is associate director.

The pact involves the use of Olson's innovative genetic techniques — cloning human DNA in yeast cells — in conjunction with RIKEN sequencing technology, the most extensive gene-analyzing equipment in the world.

The agreement, which went into effect Nov. 1, is the first genetics collaboration signed between American and Japanese researchers and RIKEN's first genetics collaboration outside Japan. The research group also has international exchange agreements with the Pasteur Institute in Paris and the Academia Sinica in Shanghai, China. The agreement is expected to further establish Washington University in the forefront of world centers working on the genome project.

"The agreement also may provide a model for internationalization, which is one of the exciting and, many think, necessary features of the human genome analysis," Schlessinger said.

The collaborative research initially will focus on determining the DNA sequence of an entire yeast chromosome. Further efforts will be based on the new cloning techniques that preserve large fragments of human DNA in yeast cells. Researchers then grow the yeast cells containing intact, specific fragments of human DNA.

The collaboration between Washington University and RIKEN is considered to be a significant step in piecing together the human genetic puzzle — a massive project that has taken on worldwide scope in recent years. The complete order and sequence of human DNA will have many potential benefits, including the determination of the genetic basis for as many as 3,500 diseases caused by genetic mutation as well as possible ways to correct many of the genetic defects.

Under terms of the agreement, research results during the collaboration are expected to be "freely disseminated in a timely manner."

Season's greetings

The Washington University Record will not be published during the semester break. This is the last issue of 1987; publication will resume Jan. 21, 1988. Best wishes for a joyous holiday season and a healthy and happy new year from the Record staff!

Bountiful harvest

Genetically engineered tomatoes resist virus

The harvest is in and results are excellent for 280 tomato plants genetically engineered for resistance to tobacco mosaic virus (TMV), an important disease of tomatoes and other vegetables. Field trials conducted at a research plot near St. Louis showed good yields and high levels of resistance to TMV, the first conclusive proof that the genetically engineered tomatoes are resistant to TMV.

Roger Beachy, Ph.D., professor of biology at Washington University, fashioned the transgenic tomatoes through a molecular genetics breakthrough. While successful genetic manipulation of tomato and tobacco plants for resistance to a herbicide and an insect has been previously accomplished, Beachy's work is the first of its kind with viral disease resistance. He worked in collaboration with researchers from Monsanto Co. in St. Louis.

Beachy's success with tomatoes is expected to open the door for higher yields in commercial tomatoes. More importantly, the method of inducing virus resistance, developed by Beachy and Monsanto scientists, should be applicable to other viruses afflicting a wide range of crops, including the cereal grains, although the grains have been difficult to work with in genetic engineering experiments.

High yields, little disease

"We've proven that the transgenic plants can take high doses of TMV at different points in the growing cycle — 14 days post-planting in one experiment and 26 days in another — and show high resistance to the virus," Beachy says. "In addition, yields of the transgenic plants were outstanding. Infected transgenic plants yielded as well as the non-infected control plants."

Infected control plants yielded 25 percent less than non-infected controls. The control plants were the variety VF-36, a once-popular variety grown in California with little or no resistance to TMV. The transgenic plants are offspring of VF-36 with minor genetic changes.

Two separate experiments were performed with the tomatoes, planted June 3. In the first, plants were inoculated with a liberal dose of TMV (10 micrograms per milliliter on three leaves) and harvested 75 days later. The infected controls were 100 percent diseased while only 10 percent of the transgenic plants showed disease. In the second experiment, the dose was boosted four-fold. Again, all the controls showed symptoms of TMV; 5 percent of the transgenic plants had symptoms.

"In the (transgenic) plants, we saw that the few plants with disease had milder symptoms, and the virus did not replicate as much as it did in the control plants," Beachy says.

Anatomy of a discovery

In 1981, Beachy conceived the idea of resistance to TMV, and by 1983 he and Washington University colleagues Barun De and Patricia Powell Abel had isolated the TMV gene that encodes the coat protein of TMV — a protein ensheathing the virus. The coat protein was then inserted into the chromosomes of tobacco and tomato plants by genetic engineering techniques that were developed by Monsanto researchers Robert T. Fraley, Ph.D., Stephen G. Rogers, Ph.D., and Robert Horsch, Ph.D.

The transformed cells were then regenerated into whole plants. These plants and their offspring were inoculated with TMV. They were resistant to

infection and either did not become diseased or the disease symptoms were much less severe than the disease on the non-transformed plants.

Beachy's technique to produce TMV resistance has since been repeated by collaborators at Monsanto and the Rockefeller University to produce plants that are resistant to alfalfa mosaic virus, cucumber mosaic virus and potato virus x.

"We believe the genetic engineering approach we have used will be applicable to many different viruses and plants," Beachy says. "We plan to continue our experiments with other vegetables, rice and cereal grains."

Link in research chain

Beachy's virus resistance research is the latest link in a Washington University research chain that stretches back to World War I.

In 1917, Washington University biologist George Freiberg provided one of the earliest descriptions of the mosaic disease of tomatoes, later to be identified as TMV. In the 1960s and early '70s, Washington University biologist Barry Commoner continued the TMV tradition; he and his colleagues studied the disease and described various physical and biological traits of the virus.

Then, in the early 1980s, Washington University biologist Mary-Dell Chilton, now with Ciba-Geigy Corp., helped develop the gene-transferring system involving the bacterium *Agrobacterium Tumefaciens*, a cornerstone of plant genetic engineering.

Enter Beachy, who, in 1985, announced at an American Society of Agronomy meeting in Chicago, Ill., that he had developed tobacco plants resistant to TMV and soon would have

Continued on p. 2

Running back breaks career rushing record

This article is part of a continuing series profiling Washington University students.

After making nine moves with his family, living as far east as New York and as far west as Oregon, Tom Polacek qualifies as the Washington University football team's version of the "Travelin' Man."

That moniker aptly describes Polacek's performance on the gridiron as well. The senior running back has covered more ground than any player to wear the Red and Green — rushing for 2,494 yards.

Polacek, who chose from a grab bag of possibilities to list Ada, Okla., as home, has spent four years in pursuit of one of the most enduring records in the Bear's annals — the career rushing record. And he achieved that goal during the Oct. 24 Homecoming game against Hofstra University. Don Polkinghorne, a 1975 graduate, previously held the record.

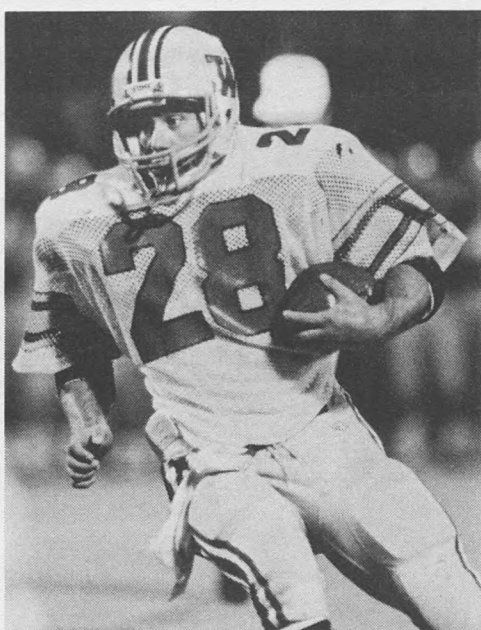
Polacek's quest has not been easy.

In the fourth game of his sophomore season, Polacek was bulling for yardage when his right foot was stepped on and twisted at the same moment. He got right back up. Then went right back down. His season was over. The injury turned out to be as mysterious as it was frustrating. X-rays disclosed no fracture, but it was six months before he could run again. Even today, damp and cold weather causes pain. He dubbed that his "nightmare year."

Brighter days were still not on the horizon, though. Polacek spent his junior season in pain, never putting together two healthy outings. He fought off overextended toes, a subluxed elbow, shoulder separations, a hip pointer, and a bicep bruise, which caused his entire arm to balloon. Still, he played, gaining 472 yards for a 5.2 yard average and hauling in 18 receptions.

Elected as a team captain, Polacek has been able to ignore reoccurring injuries to put together a storybook senior season, which ended with a school-record single-season rushing mark of 1,090 yards.

"Sometimes I can't figure out why I'm doing that well," he said in an interview before breaking the rushing record. "I don't have breakaway speed and you won't see me juke somebody very often. I guess I don't go down very easily. It becomes a vendetta when I'm running the ball — I take it



Tom Polacek

personally when someone tries to tackle me."

"Tom has great vision and a sense for making the right cut at the right time," adds Bear Head Coach Ken Woody. "He is not blessed with great speed, but his running ability makes it impossible to stop him one-on-one in the open field."

Polacek is quick to point out that he's had some help along the way.

"I set individual goals," he says, "but there's no way I could achieve them without the unbelievable offensive line I have in front of me. If there is anybody who deserves to give me flack for getting my picture in the paper all the time, it's them."

Lesser known than Polacek's headline gridiron accomplishments are his classroom successes. He is a nominee for academic All-American honors this year, and is in the running for a NCAA postgraduate scholarship. Law school seems to be in his immediate future.

"Tom Polacek embodies the NCAA's spirit of academic and athletic achievement working hand in hand," says Woody. "He is one of the senior leaders of our upperclassmen advising program and has exhibited a genuine interest in the academic progress of our freshmen."

Despite all the setbacks and frustrations, Polacek has landed on his feet and is very pleased to be right where he is.

"In my opinion," he says, "Washington University has become the perfect place to mesh athletics and academics. You can't go to a better school than this, and you can't play for a better overall program. I'll always be glad I came to Washington U."

Bear fans add a collective, "Likewise."

David Moessner

Congressman William Clay will open spring semester Assembly Series

U. S. Congressman William Clay will deliver the Martin Luther King Jr. Birthday Lecture at 11 a.m. Wednesday, Jan. 20, in Graham Chapel.

The lecture, titled "On Black Progress: The Continued Dream," will open the University's spring semester Assembly Series.

Clay, who represents the 1st Congressional District of Missouri, was elected to the U.S. House of Representatives in 1968. He serves on three standing committees: Education and Labor, Post Office and Civil Service, and House Administration. He is chairman of the subcommittee on Labor Management Relations and Pension Reform Activities of the House

Education and Labor Committee and is ranking member of the House Post Office and Civil Service Committee. He also is a member of the Democratic Steering and Policy Committee.

A graduate of St. Louis University and a native St. Louisan, Clay was elected alderman of the 26th Ward in St. Louis in 1959. He resigned from that position in 1964 to become committeeman for the 26th Ward, a position he currently holds.

The lecture, which is free and open to the public, is co-sponsored by the Assembly Series, African and Afro-American Studies, the Association of Black Students, Student Educational Service and Student Union.

Philosopher Wellman named Lewin professor in humanities

Carl P. Wellman, Ph.D., professor of philosophy at Washington University, has been appointed the first Hortense and Tobias Lewin Distinguished Professor in the Humanities, Martin H. Israel, acting dean of the Faculty of Arts and Sciences, has announced.

Israel said that Wellman is generally acknowledged as a major ethical philosopher by his peers in the philosophical profession and for his scholarly research. "He is a superb teacher on the undergraduate level and insists on teaching beginning courses each year so that his influence on undergraduate education may continue," Israel said.

Wellman holds important posts in numerous academic associations and has written five major books on ethics and the philosophy of law, and has edited a sixth. He has published numerous scholarly articles and has been a participant in many national and international meetings.

Wellman started his career with Washington University in 1968 after serving as chairman of the philosophy

department at Lawrence University.



Carl P. Wellman

He received his undergraduate degrees from the University of Arizona, and his graduate degrees from Harvard University, including a doctorate in 1954. He also did graduate

work at the University of Cambridge.

The Hortense and Tobias Lewin Distinguished Professor in the Humanities was established in April 1987 by Tobias Lewin, Washington University alumnus and retired chairman of the Tobey Color Card Co.

Lewin is a 1932 graduate of the University's School of Law. Hortense Lewin, who died in 1983, attended Washington University from 1934 to 1938, first in the College of Arts and Sciences, and later in the School of Fine Arts.

Tomatoes — continued from p. 1

tomato plants with resistance as well.

"Plant viruses can be major factors in reduced crop yields, especially in developing countries where sophisticated agronomic techniques are unknown or not affordable," Beachy says, noting that in Thailand, for instance, between 40 and 80 percent loss in yield of some vegetable crops is common each year. Also, virus diseases thrive and reduce crop yield throughout the Mediterranean, Asia, Africa and the tropics of the Americas with no known method to combat them.

In the United States, TMV can cause an estimated annual \$50 million in damage to the tomato crop, while other viruses cause an estimated \$95 million damage to the wheat and \$30 million damage to the potato crops.

Vast implications

Before the scientist's discovery, plant breeders had only two ways to produce virus resistance in plants. One is cross-breeding of proven varieties with wild strains that show some type of natural virus resistance, a time-consuming and often unsuccessful method; the other is inoculation of transplanted seedlings with a mild strain of virus, a slow and labor-intensive operation that can, in itself, reduce crop yield.

Implications for Beachy's work are far-reaching. He has made many presentations and has had hosts of requests from researchers and government officials interested in visiting his laboratory to learn relevant genetic engineering techniques. Among the developing countries that have expressed interest in his work are Zimbabwe, Egypt, Zambia, China, Thailand and India.

"We are hopeful that someday this mechanism will help give protection to a number of different viruses using only a minimum number of genes," Beachy says. "If it works, it would provide greater yields of food crops and more versatility for growers."

Genetic engineering, however, is not without its critics. Some people with dark visions of technology gone astray feel, "It's not wise to fool with

Mother Nature." But Beachy and his collaborators believe the new breeding techniques are simply a more accurate and faster version of methods that began with Gregor Mendel, considered the "godfather" of plant breeding.

"Plant breeders have been altering the genetic pool of plants and introducing new genes into plants for centuries," Beachy says. "Genetic engineering is simply plant breeding with exquisite precision."

As an example of how predictable the gene-transferring work is, Beachy notes that the virus-resistant tomatoes are identical to other tomatoes except for three genes — he and his colleagues know the exact sequence of those genes, how they work and what they do.

The result is new plants "with new traits for disease resistance that will benefit growers and farmers around the world," Beachy says.

Tony Fitzpatrick

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NOTABLES

Raymond E. Arvidson, Ph.D., professor of earth and planetary sciences, will be appointed as co-editor of the journal *GEOLOGY*. The three-year term begins in January 1988. *GEOLOGY* publishes innovative research results in the geological sciences. Arvidson chaired a session and gave an invited paper at the Geological Society of America meeting, held in October in Phoenix. The session dealt with global perspectives on the earth sciences. He also was elected vice chair of the Planetary Geology Division of the society. **Jeffrey Plaut** and **Benoit Rivard**, two graduate students working with Arvidson, both received fellowships this fall based on competitive proposals. Plaut received a NASA Graduate Fellowship and Rivard received a French-Canadian Fellowship, the Fonds Pour la Formation de Chercheurs et L'Aide A'La Recherche.

Lynn C. Imergoot, assistant athletic director, spoke on "Networking, Mentoring, and Involvement - Your Keys to Professional Growth" at the fall conference of the Missouri Association for Health, Physical Education, Recreation, and Dance, held Nov. 5-7 in Cape Girardeau, Mo. The conference marked the 50th anniversary celebration of the association.

Charles L. Leven, Ph.D., professor of economics, attended the International Conference on Migration and Labor Market Efficiency at the Stokely Management Center of the University of Tennessee at Knoxville, held Oct. 15-17. Participation at the conference was limited to those who had been invited to prepare papers for it, including scholars from the United States, Canada, UK, Netherlands, Sweden, Germany and Italy. Leven's paper was titled "Convergence, Cycles and Inter-regional Adjustment." Later in October Leven spent four days in Stockholm discussing planning issues with the Stockholm Regional Planning Authority. While in Stockholm, he also presented a seminar on "Post-Industrial Metropolitan Change in Historical Perspective" at the Royal Institute of Technology.

Dennis J. Martin, director of financial aids, has been appointed a member of the Advisory Committee on Research and Development of the College Board for 1987-90. The College Board is a national nonprofit association serving students, schools and colleges through programs designed to expand educational opportunity. Its membership consists of more than 2,500 higher and secondary education institutions and schools, systems and associations. The College Board's programs in guidance, admissions, placement, financial aid and credit by examination assist the school-to-college transition of some 2.5 million students annually.

Van McElwee, lecturer in the Performing Arts Department and the School of Fine Arts, has received a grant from the Independent Production Fund, which is supported by the National Endowment for the Arts and the American Film Institute. His videotape "Inside" was broadcast recently on KUHT-TV in Houston, Texas, and his work was screened at Webster University as part of its visiting artist series.

James G. Miller, Ph.D., professor of physics and research associate profes-

sor of medicine, recently participated as an invited guest and lecturer at the Seventh European Communities Workshop on Ultrasonic Tissue Characterization and Echographic Imaging. Miller was one of three non-Europeans who participated with 70 physicists and clinicians from 11 nations in the workshop, which was held in Nijmegen, the Netherlands.

Max J. Okenfuss, Ph.D., associate professor of history, delivered a paper, titled "Education and the Eighteenth-century Enlightenment," for the panel on Education and the Professions in Tsarist Russia at the annual meeting of the American Association for the Advancement of Slavic Studies, held Nov. 6 in Boston. Okenfuss, American editor of the *Jahrbuch für Geschichte Osteuropas*, also participated in events celebrating the 40th anniversary of the Russian Research Center at Harvard University.

Bernard D. Reams Jr., J.D., Ph.D., acting dean of the Washington University Libraries and professor of law, is the author of an article titled "Revocation of Academic Degrees by Colleges and Universities" published in the fall 1987 issue of *The Journal of College and University Law*. The article examines three recent cases in which revocation procedures were upheld by the courts.

Svetozar Stojanovic, Ph.D., distinguished visiting scholar from the University of Belgrade, sharing an appointment in sociology and philosophy, recently presented a paper, titled "Yugoslavia: Current Trends and Consequences," at a seminar sponsored by the Center for International Development and Conflict Management, University of Maryland. He also was a participant during a panel discussion presented by the Center for Soviet and Eastern European Studies and The Foreign Policy Research Institute, University of Pennsylvania. The discussion was titled "East European Intellectuals Assess Gorbachev's Reforms."

Steven L. Teitelbaum, M.D., the Roswell and Wilma Messing Professor of Pathology at the School of Medicine, has been appointed pathologist-in-chief of Jewish Hospital at Washington University Medical Center. As pathologist-in-chief, Teitelbaum takes charge of both research and clinical functions, including surgical pathology and the clinical laboratories. He also chairs Jewish Hospital's research committee, which reviews research proposals and clinical protocols. An internationally recognized researcher on bone and mineral metabolism, he was instrumental in the development of a non-surgical technique for bone biopsy that has been adopted worldwide.

Have you done something noteworthy?

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

National competition ahead for law school's moot court team

A law school moot court team from Washington University won the Regional Moot Court Competition recently held in Kansas City, Mo. The three-person team will compete for the national title at the final rounds of the National Moot Court Competition to be held Jan. 25-28, 1988, in New York City.

The 38th annual New York competition, where 28 schools will compete, is the country's oldest and largest national moot court competition. It is sponsored by the Association of the Bar of the City of New York and the American College of Trial Lawyers.

The third-year law students to compete in the national competition are: Debbie S. Champion of Paducah, Ky., and Tim Holstein and Peter C. Sisson, both of St. Louis. Holstein was presented a silver cup by the American College of Trial Lawyers as the best oralist in the final round of the regional competition. The students' faculty adviser is Roy D. Simon Jr., J.D., associate professor of law at Washington. The students won four out of five rounds at the Nov. 20-21 regionals, where 14 teams from seven schools competed.

Another team of third-year Washington University law students reached the quarterfinals at the regionals. They are Jane M. Carriker of Webster Groves,

Rachelle S. Loomus of Southfield, Mich., and Mark H. Zoole of Olivette.

"All the students worked extremely hard this semester," says Simon. "They did a great job. I'm also grateful to the lawyers, judges and students who helped the teams prepare for the oral arguments."

At the regional and national moot court competitions, the students are assigned a fictional case and present oral arguments to panels of judges. This year's case involves a 20-year smoker who sued a tobacco company, alleging that the company failed to adequately warn him about the hazards of smoking.

During the American Bar Association's Regional Negotiation Competition held Nov. 21 in Kansas City, Washington's team placed third. The third-year students who competed at the regional negotiation competition are Kimberly A. Hanaway of St. Louis and Mark V. Gurnik of Naperville Ill. Second-year law students Peter W. Ito of Arvada, Colo., and Richard T. Mitchell of Bloomingdale, Ill., served as alternates. The faculty advisers were Kenneth M. Chackes, J.D., and M. Susan Carlson, J.D., visiting assistant professors of law.

Introductions to new faculty

The Washington University Record is featuring a series of profiles of new faculty this semester on the Hilltop, Medical School and Dental School campuses. The faculty introductions will appear weekly in alphabetical order.

William R. Lowry, instructor in political science, comes to Washington from Stanford University, where he is a doctoral candidate in political science. He received a master's degree in political science in 1985 from Stanford, master of business administration degree in 1983 from the University of Illinois at Chicago and a bachelor's degree, with high distinction, in business administration in 1979 from Indiana University. He is a fellow at the Brookings Institution in Washington, D.C., during this academic year.

Douglas M. Lublin, M.D., Ph.D., assistant professor of pathology and medicine, came to the School of Medicine in 1984 as a research fellow in the divisions of rheumatology and laboratory medicine in the departments of medicine and pathology. He received a doctorate in physics from Stanford

University in 1976 and a medical degree from the University of California/Los Angeles in 1982. His research involves investigating the molecular and cell biology underlying glycolipid anchoring of membrane proteins, utilizing decay-accelerating factor (DAF) as a model. DAF, a complement regulatory protein present in many cell types, functions to prevent complement activation.

Hugh J. Macdonald, Ph.D., Avis Blewett Professor of Music, comes from Glasgow University in Scotland where he was Gardiner professor of music. He received a bachelor's degree in 1961, master's degree in 1965 and a doctorate in 1969, all from Pembroke College, Cambridge University. He is the general editor of the New Berlioz Edition since 1965 and he has authored many articles and books.

Paul R. Messinger, instructor in economics, comes to Washington from the University of California/Berkeley, where he is enrolled in a doctoral program in economics. He earned a master's degree in statistics in 1986

Continued on p. 4

NEWSMAKERS

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

A case of AIDS in St. Louis in 1969. The Oct. 25 *Chicago Tribune* documents the AIDS-related death of Robert R., a St. Louis teenager whose case raises more questions than answers about when and from where the virus arrived in this country. Memory Elvin-Lewis, Ph.D., professor of microbiology in biomedical sciences in dental pathology, followed Robert R.'s decline and

death for more than a year. "He was my first patient," Elvin-Lewis recalls, "and I couldn't believe what I was seeing. His antibodies were so low that nobody could understand it." When he died on May 16, 1969, Elvin-Lewis and others preserved blood and tissue samples that this year tested positive for AIDS. Similar versions of the story appeared in many large newspapers and magazines around the country, including *The New York Times*, *Time*, *Atlanta Journal and Constitution*, *People*, *Boston Globe*, *Philadelphia Inquirer*, *Washington Post*, *Houston Post* and *Los Angeles Times*.

CALENDAR

Dec. 10 - Jan. 23

LECTURES

Thursday, Dec. 10

4 p.m. Dept. of Earth and Planetary Sciences Carl Tolman Colloquium, "The Great Slave Lake Shear Zone - Reconstructed Vertical Profile of a Crustal Scale Strike-Slip Fault Zone," Simon Hanmer, senior geologist with the Canadian Geological Survey, Ottawa, Canada. 102 Wilson.

4 p.m. Dept. of Chemistry Seminar, "Sequence Specific Recognition and Cleavage of DNA," Peter Dervan, prof. of chemistry, California Institute of Technology. 311 McMillen.

Friday, Dec. 11

Dept. 4 p.m. Dept. of Chemistry Seminar, "Unusual Pocket Ligands for Non-Metal and Metal Chelation," John Verkade, prof. of chemistry, Iowa State U. 311 McMillen.

Monday, Dec. 14

3 p.m. Oral Examination for the Doctoral Degree, "The Cultural Construction of Class: Resource Control, Social Relations, and Cultural Processes in a Community on the Pelion Peninsula of Greece," dissertation by Diane O. Bennett, Dept. of Anthropology. 101 McMillan.

Tuesday, Dec. 15

4 p.m. Dept. of Chemistry Seminar, "Synthesis and Chemical Modification of Complex Oxides," Shiou-Jyh Hwu, Dept. of Chemistry, Northwestern U. 311 McMillen.

Wednesday, Dec. 16

3 p.m. Oral Examination for the Doctoral Degree, "Biosystematics of Kalimeris," dissertation by Hongya Gu, Dept. of Biological Sciences. 322 Rebstock.

Monday, Dec. 21

1 p.m. Oral Examination for the Doctoral Degree, "Pair Production and Annihilation in Gamma-Ray Bursts," dissertation by Brian John Carrigan, Dept. of Physics. 241 Compton.

Friday, Jan. 8

6 and 8:30 p.m. WU Association Film Travel Lecture Series, "An Austrian Odyssey," Frank Nichols, filmmaker. Graham Chapel. For ticket info., call 889-5122.

Wednesday, Jan. 20

11 a.m. Martin Luther King Jr. Birthday Lecture with Congressman William Clay. Lecture is part of the Assembly Series. Graham Chapel.

MUSIC

Monday, Jan. 11

4:30-5:30 p.m. WU Wind Ensemble Auditions for clarinet, oboe and trumpet. Tietjens Rehearsal Hall. Auditions are open to WU students and other students. To schedule an audition time, call the Dept. of Music at 889-5581.

EXHIBITIONS

"Faculty Show," works by WU faculty. Gallery of Art, upper galleries. Through Feb. 7. 10 a.m. - 5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Student Three-Dimensional Work." Through Dec. 13. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

"A Community of Readers: Books That Made a Difference," an exhibit of books selected by WU distinguished faculty and administrators. Through Dec. 31. Olin Library, Special Collections, Level 5. 8:30 a.m.-5 p.m. weekdays.

FILMS

Thursday, Dec. 10

7 and 9 p.m. WU Filmboard Series, "Persona." \$2. Brown Hall.

Friday, Dec. 11

7 and 9:30 p.m. WU Filmboard Series, "Time Bandits." \$2. Brown Hall. (Also Sat., Dec. 12, same times, and Sun., Dec. 13, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Heavy Metal." \$2. Brown Hall. (Also Sat., Dec. 12, same time, and Sun., Dec. 13, at 9:30 p.m., Brown.) Both the feature and midnight films can be seen for a double feature price of \$3.

Monday, Jan. 18

7 and 9:15 p.m. WU Filmboard Series, "It

Happened One Night." \$2. Brown Hall. (Also Tues., Jan. 19, same times, Brown.)

Wednesday, Jan. 20

7 and 9:15 p.m. WU Filmboard Series, "Without Anesthesia." \$2. Brown Hall. (Also Thurs., Jan. 21, same times, Brown.)

Friday, Jan. 22

7 and 9:30 p.m. WU Filmboard Series, "Roxanne." \$2. Brown Hall. (Also Sat., Jan. 23, same times, and Sun., Jan. 24, at 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Dead Men Don't Wear Plaid." \$2. Brown Hall. (Also Sat., Jan. 23, same time, and Sun., Jan. 24, at 9:30 p.m., Brown.) Both the feature and midnight films can be seen for a double feature price of \$3.

SPORTS

Saturday, Dec. 12

5:30 p.m. Women's Basketball, WU vs. U. of Missouri-St. Louis. Field House.

7:30 p.m. Men's Basketball, WU vs. U. of Missouri-St. Louis. Field House.

Thursday, Jan. 14

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

Saturday, Jan. 16

7 p.m. Women's Basketball, WU vs. Case Western Reserve U. Field House.

Monday, Jan. 18

7 p.m. Men's and Women's Swimming and Diving, WU vs. Principia College and St. Louis U. Millstone Pool.

Tuesday, Jan. 19

5:30 p.m. Women's Basketball, WU vs. Maryville College. Field House.

7:30 p.m. Men's Basketball, WU vs. Maryville College. Field House.

Saturday, Jan. 23

7:30 p.m. Men's Basketball, WU vs. Carnegie Mellon U. Field House.

MISCELLANY

Friday, Dec. 11

Noon. An open meeting of Alcoholics Anonymous continues to be held in the cafeteria of the Newman Center, 6352 Forsyth Blvd. Meetings will be held every Friday with the exception of Christmas and New Year's Day.

Faculty —

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from the University of California/Berkeley, a master's in business administration in 1981 from Harvard University, and a bachelor's degree in economics in 1979 from Carleton College. His primary research interests are industrial organization and econometrics.

Kevin D. Moeller, Ph.D., assistant professor of chemistry, comes to Washington from the University of Wisconsin-Madison, where he was an NIH Postdoctoral Fellow. He received a doctorate in organic chemistry in 1985 and a bachelor's degree in chemistry in 1980, both from the University of California/Santa Barbara. His research interests involve the development of new reaction methodology for organic synthesis.

Nancy Morrow-Howell, D.S.W., assistant professor of social work, was a lecturer in the George Warren Brown School of Social Work before she received her new appointment. She received her doctorate in social welfare in 1984 from the University of California/Berkeley, a master's degree in social work in 1975 and a bachelor's degree in social work in 1974, both from the University of Kansas. Her research interests include hospital discharge planning with elderly clients and informal support systems among the elderly.

Women's basketball team takes on challenging schedule with confidence

When the 1987-88 women's basketball team opened its home season Dec. 1 with a 96-30 win over Webster University, the players' experience and depth played a key factor. Twelve letterwinners returned this season, including four of the top five scorers from last year, as well as the top two rebounders. In addition, seven newcomers are on the roster.

Second-year Head Coach Nancy Fahey is so confident in the Bears this season that she chose to beef up the slate with a handful of games against ranked Division III-foes, as well as taking on a pair of Division II teams.

"We want to be challenged by each game we play," says Fahey, who last season coached the team to 16 wins and a .761 winning percentage — both school records.

"In order to be considered as a contender, you have to accept the challenge of playing quality teams. I think if we develop some kind of consistency throughout the season we can match last year's winning percentage."

Leading the pack of Bear returnees is junior Karen VanMeter, Eldorado, Ill. The 5-10 forward led the team with 12.4 points and 7.2 rebounds per game last season, but is recuperating from a painful bout with tendonitis in her knee.

"Karen is coming back very strong," Fahey said. "She will have to score her 12 points a night for us to be successful. She's an impact player both offensively and defensively, and we need her experience on the floor because we're still a relatively young team."

That youth is personified in the form of two sophomore starters, forward Rochelle Meyers, Valparaiso, Ind., and center Jill Steinhauer, Danville, Ky. The 5-11 Meyers averaged 6.9 points and 6.1 rebounds per contest as a freshman, and established a school record with a .508 field goal percentage. The 6-2 Steinhauer averaged 7.5 points and 4.3 rebounds in her first year wearing the red and green.

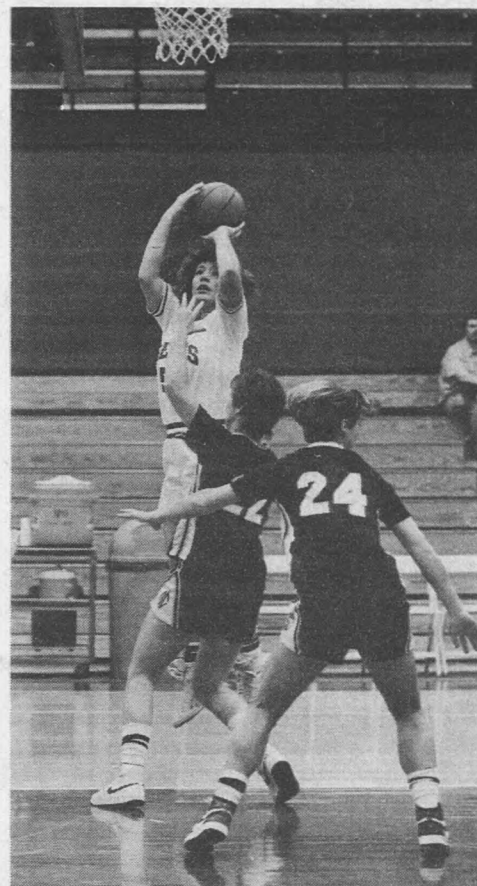
Soccer team runner-up for title

When Washington University reaches another NCAA Division III soccer final, one thing is certain — the University of North Carolina-Greensboro will not be the Bears' opponent. And that's something to cheer about for Bears fans.

The Spartans, playing in their last NCAA Division III tournament, beat the Bears 6-1 in the championship final, held on Sunday, Nov. 22, in Greensboro, N.C. Beginning next fall, the Spartans will play in Division II before moving up to the Division I level in 1991.

North Carolina was the same team that knocked off the Bears in 1985, beating the Red and Green by a 5-0 margin. While this year's contest also ended in a five-goal spread, the game was not as lopsided as the final score indicated. In fact, the Bears came within a whisker of tying it at 2-2 five minutes into the second half when a shot by freshman Paul Wright hit the crossbar and bounced away. Seconds later, UNC-G scored the crushing goal that gave them a 3-1 lead and all the momentum.

Despite the loss, it was quite a



Karen VanMeter

A major team goal, both now and in the future, will revolve around the newly formed University Athletic Association. This season, the Bears will take on five UAA foes — the University of Chicago, the University of Rochester, New York University, Case Western Reserve University and Carnegie Mellon University. Both Rochester and New York cracked the top 20 last season and appeared in NCAA Division III postseason play.

A UAA championship title is part of that goal, says Fahey. "Any time there's a conference championship involved, it becomes special. We want to be in a position to contest for it."

The Bears second home game will be at 5:30 p.m. Saturday, Dec. 12, in the Field House against the University of Missouri-St. Louis, with 10 home games remaining.

season for the Bears — a team that one year ago finished 9-7-1. First-year Coach Ty Keough guided Washington to the first University Athletic Association championship, recording a 5-0-1 mark in league play. The Bears also managed a tie with Division I playoff team St. Louis University.

In postseason action, the Bears won their fifth regional championship, defeating second-ranked Ohio Wesleyan 1-0 for this year's title. In seven years of NCAA play, Washington is among the nation's leaders in winning percentage with a 17-8 record.

Calendar Deadline

The deadline to submit items for the Jan. 21-30 calendar of the *Washington University Record* is Jan. 7. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.