Scientists from Latin America, North America and Europe will meet for two weeks at WU beginning Sept. 20 to discuss recent progress in the theoretical description of many-particle systems and superdense matter. The meeting, the Sixth Pan-American Workshop on Condensed Matter Theories — Feenberg Memorial Symposium, is expected to promote collaboration among physicists of the western hemisphere.

A highlight of the workshop will be WU's annual Eugene Feenberg Memorial Lecture, to be delivered by David Pines at 4 p.m. Sept. 22 at 201 Crow Hall. Pines, a leading figure in many-body theory, is professor of physics and electrical engineering at the University of Illinois-Urbana, a member of the National Academy of Sciences, and the editor of *Review of Modern Physics*. He will speak on "Elementary Excitations in the Helium Liquids."

The conference will focus on the application of quantum mechanics (as opposed to Newtonian mechanics) to the study of a variety of objects ranging from neutron stars to the nuclei of atoms. Included will be talks on liquid helium, solid-state physics, electron systems, spin-aligned quantum systems, and the quantum structure of nuclei and atoms.

First held in Brazil in 1977, the Pan-American Workshop is in this year's main meeting in the field.

The Feenberg Memorial Lecture was established in honor of the late WU professor who retired as Wayman Crow Professor Emeritus and Lecturer, WU in June 1980 through a gift of $5.5 million from the McDonnell Foundation. The Center provides the resources for a focused interdisciplinary effort toward increasing our knowledge of brain function. This conference is the first of a series which will periodically bring together the world's premiere scientists for the purpose of sharing advances and contributions made in various fields of brain research.

The 11 participants in the conference are:
- Viktor Hamburger, Ph.D., Edward Mallinckrodt Distinguished University Professor Emeritus and Lecturer, WU Department of Biology;
- Douglas R. Hofstadter, Ph.D., associate professor of computer science, Indiana University;
- David H. Hubel, M.D., John Franklin Enders University Professor, Harvard University;
- David H. Ingvar, M.D., professor and head, department of Clinical Neurophysiology, University of Lund, Sweden;
- Eric R. Kandel, M.D., professor of physiology and psychiatry and director, Center for Neurobiology and Behavior, Columbia University College of Physicians and Surgeons, and the New York State Psychiatric Institute;
- Brenda A. Milner, Ph.D., professor of neurology and neurological surgery, McGill University;
- Harold Pines, a leading figure in many-body theory, is professor of physics and electrical engineering at the University of Illinois-Urbana, a member of the National Academy of Sciences, and the editor of *Review of Modern Physics*. He will speak on "Elementary Excitations in the Helium Liquids."
Ernst Zinner, senior research associate in the Department of Physics, explains how WU's new ion probe focuses a beam of charged particles on moon rocks to erode the surface and reveal cosmic dust imbedded within — a process called "sputtering." A mass spectrometer then picks out the dust according to mass. Zinner used a similar instrument while on a recent two-year leave at the Technical University of Vienna, Austria.

**Gentle “sputter” of new ion probe reveals cosmic dust in moon rocks**

"Who has seen the wind?" begins a child's nursery rhyme. "Neither you nor I...."

But a wind that never penetrates the earth's atmosphere can in fact be seen on the moon. There, charged particles known as the solar wind — mostly the centers of hydrogen and helium atoms — are implanted into the surface of the moon as they stream from the sun's corona. A machine recently purchased by the WU McDonnell Center for the Space Sciences will be able to gently "sputter" away microscopic layers of moon rock to reveal these particles, captured throughout time in a natural chronicle of fluctuation.

The machine also will be used to analyze cosmic dust spewed from the tails of comets that originated in distant regions of the solar system, said Ernst Zinner, senior research associate in the Department of Physics and chief operator of the new $600,000 ion probe at Compton Hall.

The earth's atmosphere and strong magnetic field serve as barriers to the solar wind, explained Zinner. Not so on the moon, where the absence of air, water and plate tectonics have preserved the dust particles throughout time.

Still, the act of deciphering traces of the solar wind will not be easy. Tedium calibration must first be worked out before lunar samples can be examined with the ion probe, said Zinner, who returned this summer from a two-year leave at the Technical University of Vienna, Austria, where he used a similar instrument in his research.

WU's instrument, which was built in Paris, was funded largely by a gift last year from the McDonnell Aerospace Foundation, Inc. One of the machine's most distinctive components is an ion gun, or chamber, which accelerates charged particles of oxygen or cesium and focuses them in a narrow beam at the sample. The ions erode the surface of the sample in a process called sputtering. The other major component, a mass spectrometer, includes a magnet which separates the ejected bits of sample according to mass.

The ion probe will be particularly crucial for analyzing the results of a project being designed for a 1984 space shuttle launch. At that time, the shuttle will visit the earth orbit a National Aeronautics and Space Administration satellite containing various experiments. One will be a cosmic dust collector built at WU in collaboration with the Technical University of Munich and the Max Planck Institute for Nuclear Physics in Heidelberg.

The collector, approximately two square meters in size, should catch about 50 dust particles smaller than the eye can see during the year it remains in orbit. As these particles whisk through space at speeds greater than 10 kilometers, or six miles per second, they will strike the collector, vaporize and settle onto a special plastic film.

WU scientists later will examine the vapor deposits with the ion probe. Ultimately, they hope to determine whether the dust has the same composition as the earth and moon.

Predicts Zinner: "We expect to see some variation. The dust probably formed in a different way than the evenly mixed primordial soup that formed most of the solar system."

John M. Olin, library benefactor, WU life trustee, dead at 89

Services were held Sept. 13 in St. Louis for John Merritt Olin, renowned philanthropist and longtime patron of WU. Olin, 89, died Sept. 8 at his summer residence in East Hampton, N.Y.

Olin was a major contributor to a number of charities and institutions and was closely associated with WU. Among his donations was a $1 million gift in 1956 that was used to build the $3.5 million John M. Olin Library. He was a life trustee of the University.

A well-known industrialist, Olin held 28 patents and was perhaps best recognized in his field for adapting progressive-burning smokeless powder to shortgun ammunition.

He graduated from Cornell University in 1913 and became a chemist with the Western Cartridge Co. of East Alton, Ill., a forerunner of the Olin Corp., now with headquarters in Stamford, Conn.

During both world wars, Olin's firm was a major supplier of guns and ammunition for the nation's military, later diversifying into manufacturing brass, chemicals, paper, cellulose, sporting goods and homebuilding products.

Besides his management of the Olin firm, he was a well-known sportsman and conservationist who raised the national champion black Labrador retriever of 1952-53, King Buck. He donated large sums to educational and charitable institutions through the John M. Olin Foundation, including land for wildlife areas. He also was a trustee emeritus of Cornell and Johns Hopkins universities.

"All who knew him at Washington University considered him to be a great man," said Chancellor William H. Danforth. "His intellect was first-rate. He had an immense curiosity that continued throughout the almost 90 years of his life. One of his beliefs was that 'when one learns why something occurs, the remedy suggests itself.' He had a strong set of convictions from which he challenged others. He was always interested in the response and the responder, a person of broad understandings and good will."

Memorial contributions may be made to Barnes Hospital or Washington University.

**Hubel— continued from p. 1**

Moritzten Mishkin, Ph.D., chief, Laboratory of Neuropsychology, National Institute of Mental Health; Fernando Nottebohm, Ph.D., professor and director, Rockefeller University Field Research Center for Ethology and Ecology; William G. Quinon, Jr., Ph.D., associate professor of biology, Princeton University; Paul Rozin, Ph.D., professor and chairman, Department of Psychology, University of Pennsylvania; Latty R. Squire, Ph.D., research career scientist, Veterans Administration, and professor of psychiatry, University of California, San Diego; Charles F. Stevens, M.D., Ph.D., professor of physiology, Yale University.

Hubel and Wiesel also found that cells of the visual cortex may "turn off" forever if they are not properly stimulated by signals from the eye during a critical early stage of development. The result of such deprivation is loss of vision.

Hubel was born in Windsor, Ontario, and received his medical degree in 1951 from McGill University Medical School. He was a resident in neurology at the Montreal Neurological Institute during 1952-53, and underwent additional medical training at Johns Hopkins Hospital in 1954-55. Hubel moved to Harvard University Medical School in 1959. He is a member of the National Academy of Science and the National Academy of Arts and Sciences.
Campus Notes

David P. Adams, a graduate student in history, will present a paper titled "The Home Front, Popular Press and Penicillin during World War II" at Interface '82, a conference on technology and the humanities to be held Oct. 21 and 22 at the Southern Technical Institute in Marietta, Ga.

Susan Frelch Appleton, professor of law, wrote an amicus carta (friends of the court) brief on behalf of 85 law professors urging the U.S. Supreme Court to use "strict judicial scrutiny" in reviewing regulations restricting access to abortion, an issue raised by three cases the Court will be considering in the coming term.

Merton C. Bernstein, professor of law, attended a conference on the effective use of arbitration July 8 and 9 at Harvard Law School. The sessions were sponsored by the Special Committee on Alternative Means of Dispute Resolution of the American Bar Association (ABA) and the Harvard Law School Program on Dispute Settlement. Both the president and president-elect of the ABA participated in the 36-person meeting.

Bernstein also recently discussed private pensions on the U.S. Chamber of Commerce nationwide television program titled "It's Your Business." In May, the Inner-Agency Task Force on Workers' Compensation published Bernstein's study on "Litigation, Representation, and Claimant Protection in Workers' Compensation."

Idelle Hinch, business manager and director of engineering accounting at the engineering school, was elected recently to a two-year term on the National Board of Directors of the American Society of Women Accountants (ASWA). She will be the 1982-83 public relations chairwoman. Hinch is a member of the St. Louis chapter of ASWA and has served as director, treasurer, vice president and president of that chapter.

Hyman Minsky, professor of economics, delivered a number of papers at international conferences last summer. He spoke at two meetings in Italy, organized by the Centre For Advanced Economic Studies. One session, an International Summer School for Economic Studies, last summer. One session, an International Summer School for Economic Studies, last summer.

Patricia K. Shehan, assistant professor of music, spoke on the influence of the mass media on musical taste and preference at the International Society for Music Education in Madrid, last month. Her paper, "Bridging the Gap Between School and Media Music," was presented to music educators from all over the world.

Three WU faculty members, Kenneth Sheple, professor of science and research associate at WU's Center for the Study of American Business, William J. Marshall, associate professor of finance, and Harold Demetz, visiting professor in the School of Business, attended the 1982 general meeting of the Mont Pelier Society in Berlin Sept. 5-10. Demetz is membership chairman of the society. Comprised of political scientists, economists and some journalists, the society is an international group that is concerned with politics and the economy.

When this gathering ended, Sheple flew to Great Britain to participate in a conference on "Britain and America: Mutual Lessons in Recent Public Policy," held at Windsor Castle in London Sept. 13-15. This meeting was sponsored by the Law and Economics Center and the Adam Smith Institute.

Virginia F. Toliver has been named director of library planning, budget and personnel.

Toliver will be responsible for coordinating library-wide planning and evaluating library personnel, policies and programs.

Toliver has been academic library intern at Olin Library under a Council on Library Resources program since 1981. She worked previously at the University of Southern Mississippi and as acting library director at Alcorn State University in Lorman, Miss.

Alan R. Tom, associate professor of education, has been appointed by Governor John J. Mallory, Commissioner of the Missouri Department of Elementary and Secondary Education, to chair a committee on teacher supply and demand in Missouri. In addition to assessing the supply of teachers in various teaching areas, the committee will also examine ways to recruit talented students into the teaching profession and to reduce the loss of mid-career teachers.

Toliver will present her findings and recommendations to the Commissioner's Educational Conference, a group composed of deans of education and presidents from public institutions of higher education. Recently the Education Conference added representatives from several private institutions, one of which is WU. Tom is the WU representative.

"Ladders and Hustles," this wood and rope sculpture construction, is by Mary Miss, who will talk about her work at a School of Fine Arts lecture at 8 p.m. Wednesday, Sept. 22, in Steinberg Auditorium. Her sculpture will be featured in an exhibition, "Mary Miss: Interior Worlds 1966-1980," opening Sept 21 at Laumeier Gallery, 12380 Rott Road.

Alumni show opening, artist's talk make for full night for art lovers

Art devotees should welcome Wednesday, Sept. 22, when WU's School of Fine Arts presents a double bill. In Bixby Gallery, a new exhibition will open featuring the work of five artists who received their BFA degrees from WU in 1977. Titled "Five Years Later," this show will comprise art by alumni Betsy Friedman, Ian McPheely, Jeff Riedel, Gail Simpson and Karen Stahl-Lecker.

An opening reception will be held from 7-10 p.m. in the gallery that is both free and open to the public. This show will run through Oct. 5.

Viewers are urged to come early or after a slide lecture to be presented by environmental artist Mary Miss of New York City in Steinberg Auditorium at 8 p.m. Her illustrated lecture is entitled "It's Your Business.

"Mary Miss: Interior Worlds 1966-1980." One of only a few contemporary women sculptors practicing in wood, she also works in a variety of other materials including pipe, cement, wire, steel, glass, string and rope.

Bixby Gallery is free and open to the public, is cosponsored by Laumeier International Sculpture Park, 12380 Rott Rd.

A retrospective exhibition of her work will go on view in the Laumeier Gallery from Sept. 21 through Nov. 7. It is also free and open to the public.

Viewing hours of Bixby Gallery are: Monday through Friday, 10 a.m. to 5 p.m.; Saturday and Sunday, 1-5 p.m.

Laumeier Sculpture Park Gallery is open Wednesday through Saturday, 10 a.m. to 5 p.m.; Sunday, noon until 5 p.m.

Woman's Club welcomes new members with coffee

The Woman's Club of WU, a social organization that sponsors cultural and educational activities, will begin its 72nd year of service to wives of faculty and staff, and women faculty and staff with a coffee hour at 10 a.m. Tuesday, Sept. 21, at the University House, 6420 Forsyth Blvd.

New members will receive a one-year free membership. International wives are especially welcome to attend and be introduced to the WU community.

The club is divided into sections reflecting a wide range of interests, such as art, gardening, gourmet cooking, literature, current events, gymnastics, needlecraft and bridge. Activities include visits to the St. Louis Art Museum, the Missouri Botanical Garden and other areas of interest in St. Louis.

Events scheduled for the coming year include a potluck dinner at members' homes, followed by Edison Theatre's production of "Ragtime '82," and a reception for ragtime pianist Max Morath in October; a luncheon and lecture on the restoration of the Fox Theatre in November; a luncheon and fashion show in December; a dinner dance in January; a luncheon and lecture on the Capitol Rehabilitation and Propagation Project, Tyson Research Center, in February; a luncheon and program on self protection and crime prevention in March, and a luncheon with a speaker from the Junior League of St. Louis in April.

Women interested in joining the Woman's Club should contact Elsie Backer, president, at 727-1063, or Linda Schuel, chairwoman of the welcoming committee, at 997-5648.
Lectures

Thursday, Sept. 16
1:30 p.m. School of Social Work Lecture, "Up From the Ranks: Stresses of the New Manager," David Scott, WU prof. of social work, and Rita Nummeroff, WU asst. prof. of social work. Videotape presentation and discussion. Brown Hall Lounge.


Friday, Sept. 17

10 a.m.-noon. Humanities Library Orientation. Olin Library personnel will instruct University College humanities students in the use of the library. 252 Olin Lib.

1-6 p.m. Planetary Image Facility Open House. For high school students, science teachers and interested adults. Focus on space exploration. National Aeronautics and Space Administration (NASA) movies, earth/space slide shows, video demonstrations, lectures and tours of the facility. Wilson Hall. For free admission tickets, call 880-5679.

Sunday, Sept. 19
7-30 p.m. Hillel House wine and cheese party. Open to all Jewish students. Hillel House. 6300 Forsyth Blvd.

Monday, Sept. 20

Applications open for Rockefeller grants

The deadline to enter the 1983 Rockefeller Foundation Competition for Fellowships in International Relations is Jan. 15. The competition is open to persons who have completed their academic or professional training and have had several years of work experience. Scholars and practitioners in the areas of science, social science, journalism and law are encouraged to apply.

Copies of the official announcement are available at many department offices and at the office of International Studies, Room 201, Sca International House, 6470 Forsyth Blvd.


Tuesday, Sept. 21
10 a.m. Women's Club of St. Louis, Inc., "Famous Five in St. Louis." Mrs. Joan Hugans. Mt. William Danforth will welcome newcomers to WU. University House, 6422 Forsyth Blvd.


Wednesday, Sept. 22
11 a.m. Full Honor Assembly, "Jain Aesthetics and the Tradition of Coptic Aggression," Ian Warl, director, The Institute for the Humanities, Stanford University, Graham Chapel.


8 p.m. School of Fine Arts Lecture Series with Mary Nio, environmental artist, speaking about her "site specific work." Cosponsored by Laumeier Sculpture Park. Steinberg Aud.

Thursday, Sept. 23

Part of a two-day conference Sept. 23 and 24 on the Biologicals of Memory, sponsored by the McDonnell Center for Studies of Higher Brain Function. WU School of Medicine, Graham Chapel.

Friday, Sept. 24
7:30 p.m. "Liederabend," a song recital sponsored by the Dept. of Germanic Languages and Literatures, with Margaret Boys, soprano, and Karen Laubengayer, pianist. Steinberg Aud.

Saturday, Sept. 25
10 a.m.-noon. Science and Mathematics Library Orientation. Olin Library personnel will instruct University College science and mathematics students in the use of the library. 252 Olin Lib.

Performing Arts

Friday, Sept. 17
8 p.m. Edison Theatre Concert, "Beyond Jotaro." Three dancer/soloists perform the repertory of great modern dance pioneers, with Julia Leven in the Tudance Duncan repertory, Satoru Shimazaki in the Michio for repertory, and Carla Maxwell in the Jose Limon and Doris Humphrey repertories. Tickets are $7 gen. adm.; $5 for area students and WU faculty and staff and $4 for WU students. Tickets available at Edison Theatre box office, 880-6543. (Also 8 a.m.-p.m., Sat., Sept. 18, Edison Theatre.)

Friday, Sept. 24
8 p.m. Edison Theatre Presents "Ragtime '82," choreography of the Jose Limon and Doris Humphrey repertories at a concert, Carla Maxwell will perform choreography of the Jose Limon and Doris Humphrey repertories at a concert. "Beyond Jotaro." In Edison Theatre at 8 p.m. Friday and Saturday, Sept. 17 and 18. Also performing on the program are Julia Leven, in the Tudance Duncan repertory, and Satoru Shimazaki in the Michio for repertory.

Exhibitions

"Five Years Later," an exhibition featuring five artists who were students at the School of Fine Arts in 1977. Gayl Simpson, Karen Stuckey, Berry Friedman, Ian McPhely and Jeff Koch. Baby Gallery. 10 a.m.-4 p.m. weekdays. 1-3 p.m. weekends. Ends Sept. 22 at Oct. 5. Opening reception 5-7 p.m. Wednesday, Sept. 22.

Films

Thursday, Sept. 16
7 and 9:45 p.m. WU Filmboard Series, "Lacombe, Lucien." $2. Brown Hall Aud.

Friday, Sept. 17
7 and 10 p.m. WU Filmboard Series, "Richard Pryor Live on Sunset Strip." $2. Brown Hall Aud. (Also Sat., Sat., 9:15 p.m., also Sat., 10, same time, Brown.)

Monday, Sept. 20

Tuesday, Sept. 21
7 and 9:15 p.m. WU Filmboard Series, "Rebecca." $7 Brown Hall Aud.

Wednesday, Sept. 22
7 and 9:15 p.m. WU Filmboard Series, "Bread and Chocolate." $2. Brown Hall Aud. (Also Thur., Sat., 9:45 p.m., same time, Brown.)

Friday, Sept. 24
7 and 9:30 p.m. Filmboard Series, "The Four Seasons." $2. Brown Hall Aud. (Also Sat., 9:15 p.m., same time, Brown.)


Sports

Thursday, Sept. 16
4 p.m. Women's Tennis, WU vs. U. of Mo.-St. Louis. Scrimmage. Tennis Courts.

Tuesday, Sept. 21
4 p.m. Women's Tennis vs. Maryville College. Tennis Courts.

Wednesday, Sept. 22
6 p.m. Women's Volleyball, WU vs. Greensville College and Maryville College. Women's Bldg. 7:30 p.m. Soccer, WU vs. McKendree College. Francis Field.

Friday, Sept. 24
7 p.m. Soccer, WU vs. Northern Louisiana U. Francis Field.

Saturday, Sept. 25
1:30 p.m. Football, WU vs. Kalamazoo College. Francis Field.

Calendar Deadline

The deadline to submit items for the Sept. 30-Oct. 9 calendar of the WU Record is Sept. 16. Items must be typed and near type, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker name and identification and the title of the event. Those submitting items, please include your name and telephone number. Address items to King McEloy, calendar editor. Box 1142.