New Directions In Architecture Is Symposium Topic

“Directions,” a two-day symposium that will attempt to point the way in which architecture is headed today and why, will be held at WU Monday and Tuesday, Nov. 6-7. The conference is free and open to the public.

Four eminent architects, who are well-qualified to speak on modern architecture in transition, will trade ideas with an editor, and three WU faculty members—one a famous philosopher-novelist, the others, respected art historians. They will consider and comment on what is called “post modernism,” which some define and describe as a return of architecture to historical illusion, contextual sensitivity and inclusion of cultural and historical meaning through ornamentation.

Peter Eisenman, director of The Institute for Architecture and Urban Studies, New York City; Michael Graves, professor of architecture at Princeton University; Robert A. M. Stern, professor of architecture at Columbia University, and Stanley Tigerman, a practicing architect from Chicago.

Eisenman will also deliver the Harris Armstrong Memorial Lecture on “Post Modernism, Post-Functionality—Some Comments on the Current Condition of Architecture” on Mon., Nov. 6, at 8:30 p.m. in the Steinberg Hall Auditorium.

The editor is Nory Miller of The American Institute of Architects’ Journal (AIA), and the WU faculty members are William Gass, noted author of Omensetter’s Luck, Udo Kultermann, author of a new book on Ernest Trova, and Norris K. Smith, well-known for his scholarship and publications on Frank Lloyd Wright.

Eisenman, Graves, Stern and Tigerman are among the exclusive eight whom world-famous architect Philip Johnson recently identified as “architects who represent a multiplicity of directions on the cutting edge of architecture.” Part of the current furor in architecture is attributed to Johnson and John Burgee, designers of the controversial, slated to be built, AT&T Building in Manhattan, referred to by some as the “Chippendale skyscraper.”

Johnson himself observed in a recent ceremony at which he received the AIA’s Gold Medal: “We stand at a place that maybe we haven’t stood for 50 years, and that is a shift in sensibility so revolutionary that it is hard to grasp because we are right in the middle.”

This flux within the discipline and art of architecture prompted three WU students in the School of Architecture, Jerry Brown, Dan Enwright, and Tigerman.

WU’s Tuition Stabilization Plan Enjoys Successful First Year

WU’s innovative tuition plan announced last spring has been well received by WU parents, with 165 students participating in the plan, according to John H. Biggs, vice chancellor for financial affairs.

The Tuition Stabilization Plan (TSP) was designed to assist families in coping with inflation, while providing adequate income to meet the University’s rising costs. The plan has two parts: (1) a prepayment privilege under which parents can pay four years of tuition for an entering freshman at the current year’s tuition rate, and (2) a loan plan under which parents can borrow the prepayment amount with loan repayment over four, six, or eight years at nine per cent interest. Comparable plans with adjusted terms are available to sophomores and juniors. The plan also provides income tax benefits to most parents in that instead of paying tuition increases which are not deductible, the parent who takes the loan option pays interest, which usually is deductible.

Biggs said the plan was used by the families of 107 freshmen, who represent about one-fifth of the students for whom the plan would be appropriate. Forty-one sophomores and 17 juniors are participating in the plan.

He said he was pleasantly surprised at the large number of families (47) electing to prepay the tuition without a loan, because this reduces considerably the need for borrowed funds over the plan’s duration.

In view of the recently announced tuition hike, many parents have benefited substantially by participating in the plan. The TSP will again be available for freshmen, sophomores and juniors entering for the academic year 1979-80. Contact the Admissions Office for more details.
Seven Eminent Scientists Speak At WU's Biomedical Symposium

On October 16 and 17, an uncharacteristic, yet dramatic production was staged at Edison Theatre. Each afternoon of the two days, several hundred scientifically inclined people enjoyed biomedical lectures by seven of the most notable scientists in the world during WU's "125th Anniversary Biomedical Symposium."

Chancellor William H. Danforth opened the symposium, which he called the highlight not just of WU's 125th year, but of any year.

Dr. W. Maxwell Cowan, director of WU's Division of Biology and Biomedical Sciences, introduced the first speaker, Sir Peter B. Medawar, head of the Division of Surgical Sciences, Medical Research Council, England, and winner of the Nobel Prize for Physiology or Medicine in 1960 for his discovery of immune-competence.

Sir Peter described his contribution to the symposium as a history, not in the conventional sense, but essentially a history of ideas having to do with the modern conception of transplantation immunity, a story that began with the discovery of the transplantability of tumors.

The next speaker was Walter F. Bodmer, professor of genetics at the University of Oxford, England, commented that Sir Peter's history of immunological reactions gave a better background on his topic than he could have.

Bodmer, introduced by Donald C. Shreffler, head of the WU School of Medicine's Genetics Department, as a "geneticist's geneticist," said his talk would describe the HLA System. This is the genetic system in man whose code can help match individuals for "genetic differences that matter when grafting tissues from one individual to another."

The third speaker was Har Gobind Khorana, research professor in the Departments of Biology and Chemistry, Massachusetts Institute of Technology, and winner of the Nobel Prize for Physiology or Medicine in 1968 for his work on the structure and synthesis of DNA. Luis Glaser, head of the WU School of Medicine's Biological Chemistry Department said, in his introduction of Khorana, that the Nobel Prize winner's invaluable lesson to others was in his combining chemical and biological techniques when studying important problems.

Khorana said he had learned biochemistry, methods of enzymology and, especially, how to work hard while studying at WU with Arthur Kornberg, who won the Nobel Prize for Physiology or Medicine in 1959 and was head of the WU School of Medicine's Department of Microbiology from 1952 to 1959.

Khorana talked about ideas and discoveries that collectively led to the development of molecular biology. He lectured on breaking the genetic code in the 1960s and synthesizing the gene in the laboratory during the past 10 years.

In introducing the next speaker—Andrew A. Benson, professor of biology at the Scripps Institution of Oceanography—William H. Outlaw, Jr., WU assistant professor of biology, said Benson's work in plant biochemistry contributed most to the area of photosynthesis by the elucidation of the Calvin-Benson cycle, the path by which plants reduce carbon dioxide to carbohydrate.

Benson said, during his talk, that the marine biologist is concerned with learning about basic biological and medical phenomena from the ocean in order "to get the meaning for man of the lessons of remarkable adaptations marine organisms have developed."

The fifth speaker, the first to speak on the second day of the symposium, was James W. Black, director of the Therapeutic Research Division, Wellcome Research Laboratories, England. Philip Needleman, head of the WU School of Medicine's Pharmacology Department, introduced him, saying that Black is well-known in pharmacological circles because of his ability to form a compatible "marriage between medical chemistry and pharmacology." Needleman said Black has developed a number of compounds that mimic the effects of histamine on the stomach. Histamine is a compound found in animal and vegetable tissue that stimulates gastric secretion and dilates blood vessels.

Black talked about his research and the research of other laboratories on histamine and concluded by saying that, in his opinion, histamine "is of vital importance in protecting the stomach in the act of eating."

The next speaker was George E. Palade, director of the Division of Cell Biology, Yale University, and winner of the Nobel Prize for Physiology or Medicine in 1974 for his pioneering studies in cell biology. Dr. Cowan, in his introduction of Palade, said that, in addition to his other accomplishments, Palade was known to anyone who had ever looked at an electronmicrograph because of his development of techniques for its use.

Palade's lecture concerned membrane biogenesis, the generation of membranes from other membranes. Membranes, he explained, are used in abundance in the construction of all cells as essentially diffusion barriers for small water soluble molecules. In concluding his lecture, Palade said that the way membranes grow leads to the thought that the same membrane that was born in archaeozoic times is, by expansion and division, what now occupies the biosphere.

Carlton C. Hunt, head of the WU School of Medicine's Physiology and Biophysics Department, introduced the last speaker of the symposium, Andrew F. Huxley, professor and head of the Department of Physiology, University College, London, England, and winner of the Nobel Prize for Physiology or Medicine in 1963 with Sir Alan Hodgkin for their elucidation of the nature of nerve impulses.

Hunt said that Huxley's work on nerve impulses set a new standard for quantitative analytical study in neurobiology coupled with profound theoretical insight. He added that Huxley's "second career" has been muscle research, a field, according to Hunt, to which he has brought amazing clarity of thought and a combination of ability at instrumentation and experimental design.

Huxley's lecture dealt with the mechanism of muscle contraction. He reflected that the year WU was founded, 1853, was right in the middle of the first wave of useful discoveries on muscle. He said that recent research was at an exciting state where speculation could be made, but with trepidation, because, based on the way discoveries in muscle research have been made in the past, new proposals were as likely to be disproved as proved. "I'd be very surprised," he concluded, "if we'd come to the end of these revolutions."

On that note the symposium ended. The audience had been treated to histories of some of the exciting recent biomedical research by the scientists who performed that research. And lastly, they had been cautioned by Huxley that no end to such scientific discoveries was anywhere in sight. (Nick Angulo)

Symposium

and Steve Sobel, to organize this conclave. Through their efforts, an impressive list of contributors, including the Missouri Committee for the Humanities, have helped to fund the symposium.

The meeting on Mon., Nov. 6, will convene in the School of Architecture's Givens Hall (9:30 a.m.), but all lectures (10 a.m. to noon and 2 to 5 p.m.) will be delivered in neighboring Steinberg Hall Auditorium. The second day, Tues., Nov. 7, will include a workshop (9 a.m.-noon) in Givens Hall and a panel discussion (1:30 to 4 p.m. in Steinberg) featuring Eisenman, Graves, Stern, and Tigerman. Miller will serve as moderator at this afternoon session in Steinberg. (For exact times of individual lectures, see Calendar, page 4.)
Lindsay Helmholz
To Be Honored at Symposium

The retirement and appointment as professor emeritus of Lindsay Helmholz, who has been associated with WU's Chemistry Department for 32 years, will be marked by an afternoon-long symposium from 1:30 to 5:30 p.m. on Wed., Nov. 8, in Louderman Hall, Room 458. The lectures at the symposium, "Spectroscopic Studies of the Electronic Properties of Inorganic Materials," will be based on Helmholz's research in X-ray crystallography, crystal structure and the electronic structure of molecules and ions. The symposium will be free and open to the public. The speakers will be: Max Wolfsberg, a WU alumnus and former student of Helmholz who is now professor and chairman of the Department of Chemistry, University of California-Irvine; Donald McClure, professor in the Department of Chemistry, Princeton University; and Harry B. Gray, professor and chairman of the Department of Chemistry and Chemical Engineering, California Institute of Technology (Cal Tech).

Helmholz received his PhD in chemistry from Johns Hopkins University in 1933. From then until 1946, he worked as a National Research Council Fellow and instructor in chemistry at Cal Tech, as assistant professor of chemistry at Dartmouth College, as a research chemist for the Manhattan Project at that university of Chicago, as a research chemist of the Manhattan Project at Los Alamos, and as a professor of chemistry at WU in 1946.

Helmholz was at Los Alamos from 1943 to 1945. When he came to the University in 1946, WU's Chemistry Department and the Manhattan Project had much in common.

In February of that year, Arthur Holly Compton became Chancellor of the University, and, with the help of Joyce C. Stearns, a longtime friend and colleague, and Joseph W. Kennedy, a discoverer of plutonium, rebuilt WU's war-time depleted Chemistry Department. Six new chemistry faculty members were appointed in 1946, all from the Manhattan Project at Los Alamos, the project to build the atomic bomb. Compton was the director of the Metallurgical Atomic Project at the University of Chicago, a part of the Manhattan Project.

Stearns, who had taken his PhD in physics under Compton at the University of Chicago, was personnel director of the Metallurgical
Calendar

November 3-9

FRIDAY, NOVEMBER 3

2 p.m. Department of Technology and Human Affairs Seminar, "Resource and Energy Conserving Agriculture," George Kuepper, WU research assistant, CBNS, 307 Urbauer.

3 p.m. Department of Germanic Languages and Literatures, "Goethe's View of America in a European Context," Peter Boerner, prof. of German, Indiana U. 320 Ridgley.

SATURDAY, NOVEMBER 4
9 a.m. WU School of Dental Medicine Course, "Options in Treating Periodontal Pockets," Dr. Sigurd P. Ramfjord, U. of Mich. School of Dentistry, WU School of Dental Medicine. To register, call 454-0387.

SUNDAY, NOVEMBER 5
8 p.m. Hillel Foundation Lecture, "Jewish Resistance and Its Meaning during the Holocaust," Vlada Meed, a Jewish resistor in the Warsaw uprising. Hillel, 6300 Forsyth.

MONDAY, NOVEMBER 6
10 a.m. School of Architecture Symposium, "Design," Speakers will include: Stanley Tigerman (10:30 a.m.); Norris K. Smith (11:30 a.m.) William Gass (2 p.m.); Robert A. M. Stern (3 p.m.); and Michael Graves (4 p.m.). Steinberg Hall. (See story on page 1.)


2 p.m. Department of Chemical Engineering Seminar, "Catalytic Gasification," Charanjit Rai, U.S. Department of Energy, 100 Cupples II.

3 p.m. Department of Music Lecture, "Composing with Computer," Dexter Morrill, composer and assoc. prof. of music, Colgate U.Titians Rehearsal Hall.


4 p.m. Department of Biology Lecture, with Alan Templeton, WU assoc. prof. of biology. 322 Rebbstock.


4 p.m. Department of Chemistry Seminar, "Photoacoustic Raman Spectroscopy of Gases," Joseph Barrett, researcher, Allied Chemical Co. 311 McMillen Lab.


TUESDAY, NOVEMBER 7
9 a.m. School of Architecture Symposium "Directions" Workshop. Givens Hall. The workshop will last until noon.

1:30 p.m. School of Architecture Symposium "Directions" Discussion, Steinberg Auditorium. (See story on page 1.)

2 p.m. Black Studies Faculty Seminar, "What Happened to the Civil Rights Movement?" Marcela Howell, WU prof. of English, who will read selections from her recently completed work. Women's Bldg. Lounge.


WEDNESDAY, NOVEMBER 8


1:30 p.m. Department of Chemistry Lindsay Helmholtz Honorary Symposium, "Spectroscopic Studies of the Electronic Properties of Inorganic Materials," L. Z. Lourandemer. (See page 3.)

3 p.m. GWB School of Social Work Colloquium, "A Field Experience in Mexico," Sylvia Rossi, GWB graduate student, and David Gibson, doctoral student in anthropology, U. of Mo. Brown Lounge.

4 p.m. Department of Physics Colloquium, "Do Neutron Stars Obey the Laws of Physics?" K. Brecher, prof. of physics, MIT. 201 Crow.

THURSDAY, NOVEMBER 9

4 p.m. Division of Biology and Biomedical Sciences Seminar, "Pattern Formation and Symmetry in Drosophila," Dr. Peter Bryant, U. of Calif., Irvine. 215 Reboestock.

4 p.m. Department of Chemistry Seminar, with Donald Kurtz, prof. of chemistry, Stanford U. 311 McMillen Lab.

Music

SATURDAY, NOVEMBER 4
1:30 p.m. WU Wind Ensemble Pops Concert, directed by Dan Presgrave. West County Shopping Center.

THURSDAY, NOVEMBER 9
8 p.m. Student Union Jazz Concert, with the Bill Evans Trio.

Performing Arts

8 p.m. Women's Programming Board Presentation, "Many Faces of Women," with Ivy Bottini, feminist comedienne. Graham Chapel. Admission $3.50; $3 for WU students. Tickets available at the door.

Exhibitions

"Evarts A. Graham, 1883-1957," an exhibit describing and illustrating the scientific achievements of Dr. Evarts A. Graham, Bixby Professor of Surgery, WU School of Medicine, 1919-1951. Library Annex, 615 South Taylor. 8:30 a.m.-5 p.m., Mon.-Fri. Through Nov. 30.

"Prints by Sidney Chafetz." Chafetz is a professor of art at Ohio State U. Bixby Gallery, School of Fine Arts. 9 a.m.-5 p.m., Mon.-Fri. Nov. 3-10.

"A Selection of Washington University Student Publications, 1869 to the Present." Olin Library, level three. 8 a.m.-12 midnight, daily. Ends Nov. 11.

Department of Earth and Planetary Sciences Tours and Presentations. Mondays, Wednesdays and Fridays, through Nov. 7. Tours begin at 108 Wilson at 3 p.m.

"Washington University: Its Design and Architecture." WU Gallery of Art, lower level, Steinberg Hall. 9 a.m.-5 p.m., Mon.-Fri.; 1-5 p.m., Sat., Sun. Through Nov. 12.

"Major Acquisitions: A Century of Collecting." WU Gallery of Art, Steinberg Hall, upper gallery. 9 a.m.-5 p.m., Mon.-Fri.; 1-5 p.m., Sat., Sun. Through Nov. 12.

"Sixteen Years of Collection Building: Notable Gifts and Purchases, 1962-1978," Rare Books and Special Collections, Olin Library level five. 8:30 a.m.-5 p.m., weekdays. Ends Nov. 23.

"American's Architectural Heritage." Givens Hall, main level. 8 a.m.-8 p.m., weekdays. Through Nov. 18.

Films

FRIDAY, NOVEMBER 3
7:30 and 9:45 p.m. WU Filmboard Series, "The Goodbye Girl." Brown Hall Theatre. Admission $1.50. (Also Sat., Nov. 4, same times, Brown.)

12 midnight. WU Filmboard Series, "Slaughterhouse 5." Brown. Admission $1. (Also Sat., Nov. 4, midnight; Brown; and Sun., Nov. 5, 8 p.m.; Wohl Center.)

SATURDAY, NOVEMBER 4
8 p.m. Office of Student Activities American Cinema Series, "They Drive by Night" and "The Letter." Reboestock Auditorium. Admission $1.50.

MONDAY, NOVEMBER 6
7:30 and 9:30 p.m. WU Filmboard Series, "Bringing Up Baby." Brown. Admission $1.50. (Also Nov. 7, same times, Brown.)

WEDNESDAY, NOVEMBER 8
5:30 p.m. WU Film Arts Series, three short films about filmmaking. Wohl Center Lounge.

7:30 and 9:30 p.m. WU Filmboard Series, "Cries and Whispers." Brown. Admission $1.50. (Also Nov. 9, same times, Brown.)