9-25-1980

Washington University Record, September 25, 1980

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Leading Designers Present Work At Urban Architecture Symposium

"Building in the City," a two-day symposium concerned with "built form and city structure," will be held in WU's Steinberg Hall Auditorium on Friday and Saturday, Oct. 3-4. It is sponsored by WU's School of Architecture.

Six speakers, including some of this country's leading architects, will speak at this conference, which is free and open to the public. The program is as follows: Session I, Friday, Oct. 3: 1:30 p.m., introductory remarks; 2 p.m., William MacDonald, A. P. Brown Professor of the History of Art, Smith College, "Tradition Transformed: Architectural Modes of Imperial Rome"; 3:15 p.m., Trudi Spigel, WU director of project development, public relations, "Hawthorne's Rome"; 4:15 p.m., Steven Peterson, assistant professor of architecture, Columbia University, and a practicing architect, "Urban Strategies."


Session III: 2 p.m., panel discussion and implementation with Hartman, Kallmann, Peterson and Weber as discussants; 4 p.m., conclusion.

The planners of the symposium, Margaretta J. Darnall and Ian Fraser, both WU assistant professors of architecture, explained that the format of the two-day meeting has been organized to consider theory first "in order to establish an intellectual framework." Designers will then present specific...continues on p. 3

Homecoming Begins Sept. 27

High spirits, barbeque and painted faces characterized last year's Homecoming. More of the same may be expected this year. See story on page 3 for details.
Particle Physicists Increase Efforts To Fathom the World of Quarks

First it was earth, air, fire and water that were thought to be the primal stuff of the universe. Later the idea of atoms and elements evolved. And within the last 15 years, a veritable zoo of subatomic particles has been discovered.

According to Carl M. Bender, WU professor of physics, the field of high energy or particle physics is one of the most rapidly changing areas of science. “A year’s vacation from it can nearly wipe you out,” he said of the strange world of quarks, hadrons, leptons and gluons.

Bender is one of a growing group of physicists at Compton Hall who are formulating theories about these particles. Together with professors Jeffrey E. Mandula and J. Ely Shrauner, their efforts are aimed at understanding quantum field theory—the prediction of the properties and interactions of elementary particles.

“The intensity of our research effort has been nearly doubling every year,” Bender said, noting that the trio received a 67 percent increase in funding last year and another large increase this fall for the continuation of a research grant from the U.S. Department of Energy. Also this fall, the group welcomed two newcomers—Nicholas Papanicolaou, a research associate, and Mike Simmons, a visiting researcher from the theory division at the Los Alamos Scientific Laboratory in New Mexico. Mandula, a professor of mathematics and physics, is on leave to serve as director of theoretical physics at the National Science Foundation in Washington, D.C.

“Our group depends on creating new ideas and communicating them,” observed Bender, who said that WU researchers frequently collaborate on papers, hold seminars and exchange information with visiting scientists. “The whole process is very verbal.”

The group’s expertise lies in three basic areas. Mandula is working to understand the peculiar phenomenon of quark condensation. Quarks are particles which appear to be permanently bound together because, unlike the natural forces between other particles, the binding force of quarks seems to grow stronger as they are pulled apart. Explained Bender, “It’s as if there are springs between quarks, and the farther you pull them apart, the more effort is required.” Current theories of quarks depend upon the presence of a related particle, the gluon, which is thought to be the force that binds the quarks.

Bender is investigating another puzzling area known as strong coupling expansions. Electrons, for example, have a weak electrical charge. Theories dealing with them have been successfully analyzed. But little is known about other particles whose nuclear charges may be 1,000 times as strong. The tendency of these strongly charged particles to interact is enormous, said Bender. They act with such force that they actually lose their individual identities and original properties.

Shrauner takes a third approach by comparing the solutions to theories in both classical and quantum physics. While classical physics involves the notion of complete predictability, quantum physics recognizes a degree of uncertainty in the answers to most problems. According to modern theory, for instance, the more learned about the velocity of a particle, the less is known about its location at the moment of measurement (and vice versa). Shrauner is especially interested in cases where particles are at their lowest possible energy states.

The number of new particles discovered continues to rise as bigger and better equipment is made for smashing protons and electrons into smaller and smaller pieces. In some linear accelerators, particles now travel as much as two miles before colliding. It’s beginning to look as if there is nothing “elementary” about elementary particles. How many more will be found? “That’s one of the burning questions today,” Bender conceded. “There could be an infinite number.”

Center to Publish Papers On Desegregation

The WU Center for the Study of Law in Education has received a Danforth Foundation grant to prepare for public distribution short informational papers covering basic issues related to school desegregation. The papers, using information from educational journals and legal documents, will cover various aspects of metropolitan desegregation, trends in school racial isolation in metropolitan areas, a review of housing discrimination cases in the St. Louis metropolitan area and other topics.

The 15 to 20 papers will be distributed initially to school board members, parent-teacher associations and concerned lay people in the St. Louis area. The grant will extend through 1981.

David L. Colton, director of the Center and associate professor of education, will direct the project. Colton has conducted several major research studies on desegregation policies in metropolitan St. Louis and other cities.

“We want to provide people with new information on metropolitan approaches to desegregation, and to change old misconceptions and conceptions,” Colton said.

The information Colton will gather will examine the variety of definitions for the term “metropolitan approach” to desegregation.

“The St. Louis plan is a ‘city-only’ desegregation plan,” Colton noted. “It leaves two thirds of St. Louis area minority students in racially isolated schools. The plan fails to address the problem of racial isolation in the St. Louis County. We need to encourage public dialogue to find ways of limiting segregation.”

Through the distribution of facts on interdistrict and metropolitan desegregation, Colton hopes to see modifications in St. Louis’s city-only desegregation plan. “We have a rich history of interdistrict cooperation in the St. Louis area, and we need to explore ways of bringing that experience to bear on the problem of racial isolation,” says Colton.

“We are not designing a plan for city-county desegregation in St. Louis. We are providing pertinent information for desegregation planners.”

Transportation—continued from p. 1

Regional Port District in Illinois, and major freight interchange programs. He also is chairman of a National Academy of Sciences committee on inland water transportation.

Haefner sees intermodal transportation as a crucial concern in the coming years. According to Secretary Goldschmidt, the federal government will spend $235 billion on domestic transportation improvements during this decade. State and local governments will spend approximately $350 billion and the private sector will invest $1.5 trillion in the nation’s transportation sector.

“We need to select these investments in the transportation network carefully,” said Haefner. “Our research will make the decisions easier by providing more basic data on how these various transportation modes work together, and the types of economic benefits each offers.”

The WU Transportation and Urban Systems Engineering Program currently has approximately $142,000 in research grants from the Maritime Administration, the Bi-State Development Agency and the Department of Transportation.
Traditions
To Be Rekindled
At Homecoming

Dig out your myrtle and maroon, don your WU tie and dust off your pom-poms and other traditional school spirit paraphernalia because tradition is the watchword and the theme of WU’s Homecoming 1980, Sept. 27 through Oct. 4.

Whetted by a Bears’ home game at 7 p.m. Saturday, Sept. 27, against Northeastern Illinois University, homecoming spirit will build throughout the week with parties, concerts and pep rallies, and culminate in the homecoming game at 7 p.m. Saturday, Oct. 4, against William Jewell College. Art Fleming, KMOX radio personality, will be grand marshal for a splendid parade preceding the game.

The Red Rose Cotillion, well-established as an occasion for nostalgia and fantasy, will follow the Northeastern Illinois game at 9 p.m. in Holmes Lounge. A five-piece band will accompany dancers with music of the last four decades. Prizes will be given to those with exceptional costumes and the most agile feet.

On Sunday, Sept. 28, the South-40 Swamp will be the scene for a picnic, concert and games, beginning at 11 a.m. The frolic continues on Sept. 29 with a party in Bowles Plaza at 2 p.m.

Tuesday, Sept. 30, has been designated Bear-Zod day when celebrants should wear their homecoming T-shirts, available at the WU Bookstore. Music by the WU Band will punctuate the Oct. 1 noon hour in Bowles Plaza.

For anyone whose school spirit has lagged during the week, the WU Cheerleaders and members of the Battling Bears football team will try their best to revive it at a bonfire and pep rally at 8 p.m. Thursday, Oct. 2, on Mudd Field. Rally participants will then gather for libations in the Umraithskellar.

Twelve floats, each reflecting some unique WU activity or landmark, are expected in Saturday’s parade, and they will be constructed Friday evening, Oct. 3, on the tennis courts parking lot. Builders, fingers aching from attaching reams of bunting to chicken-wire, will be treated to a midnight rally.

Homecoming events will reach a climax on Saturday, Oct. 4, when the parade of floats inches out of the First Congregational Church parking lot at 6:00 Wydown at 3 p.m. The parade will proceed west on Wydown to Big Bend, north to Delmar, east to Skinker, south to Forsyth, and west again into Francis Field. A picnic dinner will be held outside the field gates following the parade. Half-time at the game will include a performance by the WU Band, a ballroom dance demonstration, and presentation of awards for the floats. Win or lose, a victory party will be held in Mallinckrodt following the game.

Homecoming has been organized by a committee headed by senior Cindy Gross and sophomore Larry Goldstein. Sponsors include Student Union, the Congress of Southern 40, the Office of Student Activities, the Residential Life Center, and the Social Activities Programming Board.

Symposium—continued from p. 1

buildings for consideration. A forum devoted to discussion and criticism will conclude the program.

Weber, who is on sabbatical this semester, is working as a designer at Skidmore, Owings and Merrill in Chicago.

Kallmann’s firm is currently in the news as the designer of the American Academy of Arts and Sciences headquarters in Cambridge, Mass. In a recent article in The New York Times, critic Ada Louise Huxable wrote, “it may be the most important building of the season... It is an architectural event of genuine significance.” Kallmann and his partners have also designed the Boston City Hall and the Boston Five Cents Savings Bank.

The Hartman-Cox shop recently completed the design of the National Humanities Center, the National Permanent Building, and the Euran buildings in the nation’s capital.

MacDonald is the author of some widely discussed books including The Architecture of the Roman Empire, The Pantheon—Design, Meaning, and Progeny, and Early Christian and Byzantine Architecture. Spigel devoted her PhD dissertation to “critical problems in the work of Nathaniel Hawthorne.” A regular contributor to the Christian Science Monitor, she has been a frequent visitor to Rome.

Peterson, in collaboration with Barbara Littenberg and David Cohen, New York architects, recently won a competition for Les Halles in Paris.

According to Darnall and Fraser, the symposium has been organized “to bring together a group of outstanding individuals to inform students, the design professions, and the community at large about aspects of theory and practice of architecture in urban situations.” The meeting is supported by a grant from the Missouri Arts Council.

Woman’s Club, Women’s Society Celebrate

The Woman’s Club, now in its 70th year, and the Women’s Society, now in its 15th year, will celebrate their anniversaries jointly with a luncheon and international fashion show at 11:30 a.m. Tuesday, Oct. 7, at the Junior League Tea Room, 8250 Clayton Rd.

Nanette Edmonds Wachter, nationally known fashion and fabric expert, will present the fashion show after lunch. International fashions for fall 1980 and spring 1981 will be featured. Members also will model fashions from their organizations’ charter years—1910 and 1965.

Reservations are $8.50 each for members and guests. Woman’s Club reservations may be sent to Mrs. Robert Mains, 1419 Westwind Dr., St. Louis, Mo. 63131, and Women’s Society reservations, to Mrs. Theodore W. Melchoir, 324 Chaselle, St. Louis, Mo. 63141.

Scholarly Exchange Programs with China Announced

The Committee on Scholarly Communication with the People’s Republic of China has announced three programs of scholarly exchange, in the natural sciences, engineering, social sciences and the humanities, between the U.S. and China for the academic year 1981-82. Fellowships and grants are available for graduate, research and distinguished scholar exchange programs. Applications are due by Oct. 6. For further information, call the Office of International Studies at Ext. 5958.
**Calendar**

**September 26-October 2**

**FRIDAY, SEPTEMBER 26**

**SATURDAY, SEPTEMBER 27**
9 a.m. Neural Sciences Program Lecture, "Neurotransmission in Invertebrates," Robert F. Miller, WU dept. of ophthalmology. 928 McDonnell Science Bldg., 4570 McKinley.

**SUNDAY, SEPTEMBER 28**
6:15 p.m. International Office and Cosmopolitan Club International Sunday Night Dinner. General admission $3.25; faculty and staff, $2.75; students, $2.25. Six International House, 6470 Forsyth Blvd.

**MONDAY, SEPTEMBER 29**
11 a.m. Department of Civil Engineering Seminar, "Design Drafting through Structural Analysis," James Walker, McDonnell Douglas Automation. 100 Cupples II.

**TUESDAY, SEPTEMBER 30**

**TUESDAY, OCTOBER 1**

**THURSDAY, OCTOBER 2**

**FRIDAY, SEPTEMBER 26**
7:30 and 9:45 p.m. WU Filmboard Series, "The China Syndrome," $1.75. (Also Sat., Sept. 27, same times, Brown.)


4 p.m. Department of Chemistry Seminar, "Soft Paintings," recent works by Hylarie McMahon, WU assoc. prof. of art. Bixby Gallery, Bixby Hall. 10-12 a.m. and 1-4 p.m., weekends. Through Oct. 10.

**WEDNESDAY, OCTOBER 1**
3:45 p.m. Women's Tennis, WU vs. U. of Mo.-St. Louis. 7:30 and 9:15 p.m. WU Filmboard Series, "Ashes and Diamonds." Brown. $1.75. (Also Thurs., Oct. 2, same times, Brown.)

**SATURDAY, SEPTEMBER 27**
8:30 a.m.-5 p.m., weekdays; 1-5 p.m. weekends. Through Oct. 10.

**TUESDAY, SEPTEMBER 30**
3:45 p.m. Women's Tennis, WU vs. SIU-Edwardsville. WU Tennis Courts.

**WEDNESDAY, OCTOBER 1**
6:30 p.m. Women's Volleyball, WU vs. U. of Mo.-St. Louis. Women's Building Gym.

**THURSDAY, OCTOBER 2**
3:45 p.m. Women's Tennis, WU vs. MacMurray College. WU Tennis Courts.

**Films**

**FRIDAY, SEPTEMBER 26**
7:30 and 9:45 p.m. WU Filmboard Series, "The China Syndrome," $1.75. (Also Sat., Sept. 27, same times, Brown.)

8 p.m. Classic Film Series, "Sunrise" and "An American Tragedy," Restock. $2.

12 midnight, WU Filmboard Series, "Rock 'N Roll High School." Brown. $1. (Also Sat., Sept. 27, same time, Brown.)

**SATURDAY, SEPTEMBER 27**
7:30 and 9:45 p.m. WU Filmboard Series, "The Turning Point." Brown. $1.75. (Also Tues., Sept. 30, same times, Brown.)

**WEDNESDAY, OCTOBER 1**
7:30 and 9:15 p.m. WU Filmboard Series, "Ashes and Diamonds." Brown. $1.75. (Also Thurs., Oct. 2, same times, Brown.)

**Sports**

**SATURDAY, SEPTEMBER 27**
7 p.m. Football, WU vs. Northeastern Illinois U. Francis Field.

**TUESDAY, SEPTEMBER 30**
3:45 p.m. Women's Tennis, WU vs. St. Louis U. WU Tennis Courts.

**WEDNESDAY, OCTOBER 1**
6:30 p.m. Women's Volleyball, WU vs. St. Louis U. Women's Building Gym.

**THURSDAY, OCTOBER 2**
3:45 p.m. Women's Tennis, WU vs. MacMurray College. WU Tennis Courts.

**Music**

**SATURDAY, SEPTEMBER 27**
2 p.m. WU Wind Ensemble "Pops" Concert, directed by Dan Presgrave, WU instructor of music. Westroads Mall, Brentwood and Clayton.

**Overseas Study Grants Available to Students**

Applications by graduate students and undergraduate seniors for Fulbright-Hays and Marshall scholarships are being accepted through Oct. 7. The scholarships are for study in universities abroad. For more information, call Abigail H. Tom, overseas program advisor with the International Office, at Ext. 5910.

**Host Families Sought**

The International House is seeking volunteers for its Host Family Program. Host families offer international students the hospitality of their homes for dessert, coffee or perhaps a holiday. For more information, call M. Diane Hasty, Ext. 5991.

**Propose a General Studies Course for Spring**

Faculty and students may submit proposals through Oct. 8 for general studies courses, particularly interdisciplinary courses with topical interest, for the spring semester. Application forms and further information are available from Marlene K. Barrett, assistant dean of the College of Arts and Sciences, at Ext. 6800.

**Meeting will Inform On New Internships**

An informational meeting on a new undergraduate program in Washington D.C., will be held today (Thursday) at 4 p.m. in Lamberton Lounge. Sponsored by the WU Center for the Study of Public Affairs and the political science department, the program will be affiliated with the Washington Center for Learning Alternatives, which will place students and supervise their programs. The first student internships are expected to participate in spring 1981. For information, call Karen S. Dawson at Ext. 5874.

**Exhibitions**

**"Greek Vases from the WU Collection."** Print Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m., weekdays; 1-5 p.m. weekends. Sept. 28 - Nov. 23.

**"Cubist, Expressionist and Surrealist Paintings and Sculptures."** Upper Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m., weekdays; 1-5 p.m., weekends. Through Nov. 2.

**"Soft Paintings,"** recent works by Hylarie McMahon, WU assoc. prof. of art. Bixby Gallery, Bixby Hall. 10-12 a.m. and 1-4 p.m., weekdays; 1-4 p.m., weekends. Through Oct. 10.

**"American Art,"** an exhibit of 19th- and 20th-century paintings. Lower Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m., weekdays; 1-5 p.m., weekends. Through Feb. 1.

**"Greek and Roman Medical Authors in the Renaissance,"** an exhibit of 16th-century editions of medical authors. Medical Library Annex, 615 S. Taylor. 8:30 a.m.-5 p.m., weekdays. Through Oct. 3.

**"Ceremonial Kite," a 24" x 30" work of art featuring pigment on fabric, is one of a dozen works by Hylarie McMahon, WU assoc. prof. of fine arts, on display through Oct. 10 in Bixby Gallery, Bixby Hall.


**"The China Syndrome,"** $1.75. (Also Sat., Sept. 27, same times, Brown.)

**"An American Tragedy,"** Restock. $2.

**"Rock 'N Roll High School."** Brown. $1. (Also Sat., Sept. 27, same time, Brown.)

**"Leave Her to Heaven,"** and "A Place in the Sun." Restock. $2.


**"The Turning Point."** Brown. $1.75. (Also Tues., Sept. 30, same times, Brown.)

**"Ashes and Diamonds."** Brown. $1.75. (Also Thurs., Oct. 2, same times, Brown.)