A new center designed to help business better understand how internal company concerns interact with law, economics and other outside influences has been established at the John M. Olin School of Business, Chancellor William H. Danforth has announced.

The Center for Business, Law and Economics at Olin will serve as a forum for the study of how individual business decisions impact on and are influenced by larger societal issues and trends. Key environmental issues facing business will be an initial theme of teaching and research activities at the center.

Business school Dean Robert L. Virgil, D.B.A., said the new center is one of the first to look at these issues from a business school perspective: "There is a great deal of interest in what the intersection of business, law and economics means to law and economics, but no business school that I know of is concentrating on what these issues really mean to management."

Don Coursey, Ph.D., a specialist in experimental economics, has been selected to direct the new center. Coursey also has been named as the Vernon W. and Marion K. Piper Professor of Business Economics, a new endowed chair at Olin made possible by a gift from the Pipers. (For more about the endowed professorship, see story on this page.)

"We'll be examining how law and economics affect accounting, marketing, finance and other operations within a firm, but we'll also be looking at the impact of management level decisions on much larger issues, such as politics, medical research and environmental policy," Coursey said.

"The center's initial focus on the environment is an outgrowth of Coursey's extensive research on using economic principles to understand environmental issues. He saw widespread interest in the topic during a business and environment course he taught recently at Olin.

"No other current topic has the potential to effect as much campuswide interest right now as does the topic of the environment," Coursey said. "We'd like to develop interdisciplinary programs that involve faculty and students from business, economics and law, as well as those from areas such as chemistry, biology, engineering and political science."

The center will encourage interdisciplinary study among students by creating new courses at the undergraduate and graduate level. It also will make funds available for special faculty research and coordinate visits to campus by academic and professional experts.

"I'd like the center to be seen as an umbrella organization that brings together diverse groups from across campus and the nation to focus their unique perspectives on important issues in business management," Coursey said. "There are many business issues that can benefit from this sort of analysis and the environment is an excellent first choice."

The creation of an academic center will expand Olin's efforts to encourage interdisciplinary study among students from areas such as chemistry, biology, engineering and political science."
‘Get-Away-Special’
Freshman’s project to fly on shuttle mission

A Washington University freshman majoring in mechanical engineering has developed a small ‘Get-Away-Special’ (GAS) can, which is scheduled to fly on a NASA shuttle mission. Freshman Lynn Klein recently learned that her experiment to study microgravity effects on the germination of tomato seeds will fly aboard a space shuttle flight in early 1992.

Werner von Braun. Last semester Klein devoted free time to researching her project. And this past summer she worked at the University of Kansas biology department in the laboratory of Craig Martin, Ph.D., on the variety of tomato seeds she plans to use in her experiment. She is planning to study the effects of temperature and light intensity on the germination of tomato seeds.

“The project drew upon my interests in both the plant sciences and mechanical engineering,” she says. “I plan on using my engineering background in designing the GAS can this summer when I go back to Huntsville to finish the details of the experiment.”

The GAS can, which costs ASRC about $10,000 to fly on the shuttle, carries up to 200 pounds of experimental equipment and provides an inside volume of five cubic feet. A small computer inside monitors temperature and regulates the mixture of chemical nutrients in which the tomato seeds germinate and grow. Beyond the pure science of her research, Klein and her project partners see the practical value of trying to understand how to grow and transport food in space.

“In the future, astronauts may be living in space for long periods of time, so growing food in space would be practical to feed crews on a journey to Mars or a 90-day trip on the space station,” she points out. “This project might grow into a project where astronauts could make their own food in space.”

Payload space also could be saved, adds Klein, allowing more equipment to be transported on fewer shuttle flights. Because germination is the first step in a plant’s development, if scientists can find out that it is indeed possible in microgravity, more ambitious plans — or alternate food plans could be worked on.

Meanwhile, Klein and her collaborators are anxious to see their project onboard a shuttle along with experiments devised by senior scientists costing hundreds of dollars of dollars.

“We can’t wait for the day when our experiment goes up,” she says. “I’ve watched the space program since I was little and I know a bit about space travel. When our shuttle goes up, I think the feeling will be indescribable.”

— Tony Steppanick

Law school listed among ‘56 best’

Washington University School of Law has received high marks for teaching and faculty accessibility, according to a recent book that profiles “America’s Best 56 law schools.”

The Prentice Hall Press publication, titled Top Law Schools: The Ultimate Guide, was written by Bruce S. Stuart and attorney Kim D. Stuart. Besides Washington University, the book assesses such law schools as Yale, Northwestern University, Chicago, Harvard, Georgetown, Duke, and the University of Pennsylvania. The authors’ goal was to obtain a comprehensive view of each school.

The schools were graded in such areas as quality of teaching, faculty accessibility, student life, selectivity and reputation. Among the categories included in Washington’s law school was the only school to receive both an “A” for quality of teaching, faculty accessibility, student life, selectivity and reputation and an “A” for faculty accessibility, the highest rating in each category. Washington faculty members Frank W. Miller, S.J.D., James Care Professor of Criminal Jurisprudence, David M. Becker, J.D., professor of law, and Kathleen F. Brickey, J.D., George Alexander Madill Professor of Law, were described as “star faculty.”

The law school ranked fourth on a scale of one to five, with five being the highest, in the categories of selectivity and reputation among recruiters.

“At Washington University the commitment to teaching by its faculty of scholars is a tradition passed on from generation to generation,” said Dorsey D. Ellis Jr., J.D., dean of the law school. “I am very pleased to see my colleagues on the faculty receive this well-deserved recognition for the quality of their teaching and their accessibility to students.”

Those who authored the book, the authors examined school catalogs, conferred with law students, administrators and recruiters, and distributed forms to alumni and students who indicated their interest in the university.

Editor: Bruce S. Stuart
Assistant editors: Robert R. Solomon, Angela H. Winiker
Contributing writers: Delia Broma, Linda Smith, Andrew K. Smith, Mary A. Halko, Gerri Wifsh, Tony Carpaz, David M. Becker and Virginia Perkins
Photographers: Steven A. Sachs
Record Office, Washington University, St. Louis, Mo. 63130
Weekly during the school year, except school holidays, monthly during June, July and August.

Address changes and corrections: send to: Payroll Office, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

Animals.

Cicero appointed to newly created animal affairs post

Theodore J. Cicero, Ph.D., professor of pharmacology and neuropharmacology in psychiatry at the School of Medicine, has been appointed to the newly created position of director of animal affairs at the University, according to Chancellor William H. Danforth.

Cicero, who also is director of research development in the Department of Psychiatry, retains his teaching and research posts. As director of animal affairs, one of his primary responsibilities is to ensure that the University is in compliance with the Public Health Service Policy on Humane Care and Use of Laboratory Animals.

Additionally, Cicero oversees all aspects of the University’s animal care and use program, including dealing with regulatory and accrediting agencies on matters of compliance; program and policy planning; and serving as Washington’s primary spokesperson on animal research issues.

Cicero joined the Washington University medical school faculty in 1970, after doing a two-year postdoctoral fellowship in neurochemistry at the Department of Psychiatry. Among his other School of Medicine positions he has served as director of the Alcohol Research Center, director of the Drug Abuse Research Center and chair of the Neuroscience Search Committee.

Cicero received a bachelor’s degree in psychology from Villanova University in 1964 and a master’s degree in physiological psychology from Purdue University. He received a doctorate in neuropharmacology from the same institution in 1969.
Jed Barga, a mechanical engineering student, is one of 10 men's basketball players from Washington University to earn a B.S. (magna cum laude) and 11 to receive a $5,000 NCAA postgraduate scholarship. Scholarship winnership is awarded to students-athletes who maintain a cumulative grade point average of 3.0 on a 4.0 scale and perform with distinction in varsity competition. During the academic year, the four-year second-team Academic All-American, Barga compiled a 3.64 grade point average, played in all 33 games, scored 83 points, and averaged 2.2 points and 2.5 rebounds per game. His first four at the University of Nebraska as a freshman and during the 1991-92 scholarship year as he completes a five-year combined undergraduate-graduate degree program. He plans to receive an undergraduate degree in mechanical engineering and a master's degree in business administration in May 1992.

Neil N. Bernstein, LL.B., professor of law, wrote an article titled "Recon- ciliation: Time for Reconciliation," which has been published in the fall 1990 issue of the University of Chicago Law Review. "Employment Screening: Legal and Clinical Considerations," an article he wrote with Susan E. Rhomberg, instructor for the Program in Occupa- tional Therapy at Washington University, describes occupational therapy in the Irene W. Kahn Rehabilitation Hospital. The seminar at the School of Medicine, has been published in the inaugural issue of Work, Journal of Prevention, Assessment & Rehabilitation.

Mary Jean Cowell, Ph.D., associate professor of dance, has been elected to and currently serves on the board of the Society of Dance History Scholars. She has also co-organized a solo, "Stella II," at the Faculty Invita- tional Concert for the American Col- lege Dance Festival in Springfield, Mo.

Lorens Holm, assistant professor of architecture, and graduate student Jim Hauck submitted a design project to the Evanston Public Library Competi- tion that has been selected for exhibi- tion at the Evanston Public Library. Kelly Stokle assisted Holm and Hauck. Their project was one of 20 entries selected, with publication from a field of more than 500 entries.

Eugene R. Kilgten, executive director of the Evanston Local Government Center Redevelopment Corporation, spoke on "Evanston: Neighbor- ship in Higher Education," which is a part of an ongoing series of lectures and discussions at Washington University Medical Center and the surrounding community as part of a seminar titled "Building an Urban University Community," held at Cleveland State University's Maxine Goodman Levin College of Urban Affairs.

William C. Kirby, Ph.D., dean of Washington University's College of Arts and Sciences, presented a paper titled "Professionalization and China's Tech- nical Community: the 1930s and the 1980s Compared" at the annual conference of the Association for Asian Studies held in New Orleans. On May 17 he will present a paper titled "The National Student Association," at a conference on "Occidentalism: A National Student Association," to be held at Stanford University. In June and July he will present papers at the Women's History Organization of Washin- gton, D.C., and at the Freie Universität in Berlin.

Ronald A. Leach, associate dean, School of Medicine, the School of Art, Design & Architecture will receive the art kissed "Logic and Gnosis" on exhibit at the Museum of Fine Arts in Richmond.

Washington University provided a B.S. or B.A. degree to 2,844 students from St. Louis through May 5. "Logic and Gnosis" is subtitled "Ontological Art, Chap. 6." Ontology is a branch of metaphysics dealing with theories of the nature of being. "Ontological Library, Chpt. 6" attempts to show how these philosophical ideas and how they may impact upon information they receive.

Marvin E. Levin, M.D., professor of medicine (clinical), has been appointed to the co-chair of the Food and Drug Administration (FDA's) Advisory Panel on Pharmaceutical Applications. The new committee sets the legally enforceable standards for drugs in the United States. The FDA's review of its duties contributing to UDP's D 4 data base, will work on the clinical application of raw data and computer-assisted drug develop- ment programs.

Robert P. Morgan, Ph.D., Elvers and William Stuckenback Professor of Technology and Human Affairs, presented an invited paper on the role of universities in science and technol- ogy policy at a workshop organized by the National Autonomous Universi- ty of Mexico on "Science Policy In Developing Countries," held in Coyoacan, Mexico. He presented a seminar on Technology Assessment and the U.S. Congress: Promise and Reality to the Washington University medical school faculty and graduate students in the Neuroscience Ph.D. program, as part of its summer morning science and society series. Morgan, who is well known in part on Morgan's experiences while on leave during 1989-1990 at the congressional Office of Technology Assessment, where he took part in a major assess- ment of environmental cleanup and safe waste management at the Department of Energy's nuclear weapons complex.

Robert Ruhtage, assistant director of the Health Administration Program at the School of Medicine, has been elected president of two local organiza- tions: the American Lung Associa- tion of Eastern Missouri and Friends of Mercantile Library.

Gloria W. White, vice chancellor for personnel and affirmative action officer, in her role as an alumnus and a former St. Louis resident who were honored at the conference was M. Hunter, former St. Louis resident who was honored at the conference was White is an alumna of Mercantile Library. She moved to the city in 1900 and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.

Mungo Park invested in a Malaysian mining engineer and mining firm, and grew hybrid orchids that were considered equal to or better than those of the King of Siam. She also obtained a pilot's license and flew a light single-engine plane in 1910.
**CALENDAR**

**Lectures**

Thursday, May 2

Noon. Dept. of Genetics, Seminar of Molecular Genetics, "Protein-DNA Interactions: a New Methodology," Larry Goldstein, Dept. of Biology, Harvard University.

Noon. Dept. of Molecular Biology and Pharmacology, "Back to Low Molecular Weight GTP Binding Proteins in Signal Transduction," Eduardo Lapeira, Division of Cell Biology, Burnham Institute, La Jolla, CA.


6:30 p.m. School of Medicine Presents the Social and Behavioral Science Seminar, "Behavioral Consequences of Neural Plasticity," Benjamin Weinstock, prof., Dept. of Physics Therapy, Beier College. Carl V. Moore Aud., 660 S. Euclid Ave.

Friday, May 3

8 a.m. Division of Medical Genetics, Dept. of Pediatrics, "Conference on the Molecular Biology of the Genetics Seminar, "The Cystic Fibrosis Carrier Screening Program," J. Andrew Sanders, prof., Dept. of Pediatrics, WU School of Medicine, 4959 S. Euclid.


11 a.m. Dept. of Molecular Biology and Pharmacology, "Structure and Dynamics," Dennis A. Torchia, Biophysics Seminar, Cori Aud., 660 S. Euclid Ave.

Noon. Dept. of Cell Biology and Physiology, "Abnormalities of Subcellular Pathology, WU School of Medicine. Third Floor Aud., 4959 S. Euclid.

3:30 p.m. Department of Genetics Seminar, "CD45: A Leukocyte-Common Signalling Protein," Susan Pinney, prof., Dept. of Genetics, 4959 S. Euclid.

4 p.m. Immunology Program Seminar, "Cell Adhesion and Aggregation: Chemicals that Organize in Mouse Pigment Mutants," Richard T. Swank, prof., Dept. of Molecular Cell Biology, Touhill Park Memorial Room. 4959 S. Euclid.

Wednesday, May 8

Noon. Dept. of Cell Biology and Physiology Special Lecture Series, "Osmotic Stress: Molecular Mechanisms of Tolerance and Survival in "Luna Sea,""(Also May 5, same time.) Women's Bldg. 6510 Wallace Circle. Alumni House. 6510 Wallace Circle. For info., call 889-5466.

**Performances**

Friday, May 3

4 p.m. Edison Theatre "OVATIONS!" Series, "The Virtuosi Orchestra Benefit Concert featuring Jordan Samuels. Graham Chapel. Recital. For more info., call 889-5581.

Saturday, May 4


Sunday, May 5

2 p.m. Dept. of Music Presents a Piano Recital with Jordan Samuels, Graham Chapel. Recital. Free. For more info., call 889-5581.

2 p.m. Dept. of Music Presents a Gateway Festival Overlooked by George Foster Piano Recital featuring Charles Metz on Harpsichord, Hansana Watanabe on Piano, and Ben Goldstein on Bass. Graham Chapel. Cost: $5 for general admission; $3 for seniors and on or under 16. Graham Chapel. For more info., call 726-6876.

Thursday, May 9

11 a.m. Dept. of Anatomy Art Collections," Recital with Maruye and Seth Garbin, Steinberg Hall. Recital. For more info., call 889-5581.

**Exhibitions**

Monday, May 6

8 a.m. Division of Medical Genetics, Dept. of Pediatrics, "Conference on the Molecular Biology of the Genetics Seminar, "The Cystic Fibrosis Carrier Screening Program," J. Andrew Sanders, prof., Dept. of Pediatrics, WU School of Medicine, 4959 S. Euclid.

Tuesday, May 7


Monday, May 6

4 p.m. Immunology Program Seminar, "Cell Adhesion and Aggregation: Chemicals that Organize in Mouse Pigment Mutants," Richard T. Swank, prof., Dept. of Molecular Cell Biology, Touhill Park Memorial Room. 4959 S. Euclid.

Wednesday, May 8

Noon. Dept. of Cell Biology and Physiology Special Lecture Series, "Osmotic Stress: Molecular Mechanisms of Tolerance and Survival in "Luna Sea,""(Also May 5, same time.) Women's Bldg. 6510 Wallace Circle. Alumni House. 6510 Wallace Circle. For info., call 889-5466.

**Indirect cost — continued from p. 1**

final indirect cost rate is based on these data, plus projections of future research-related costs," Berg said. "It is unfortunate and regrettable that some of our entrants were incorrect. For example, only 10 percent of accounting transactions are coded and processed. The basis of the computations — Circular A-21 — is vague and open to different interpretations. Furthermore, it has been our regular practice to conduct internal audits annually. One audit of direct costs has been conducted as required by the federal government.

"Nonetheless, it is clear from the report of the outside accountants and the internal auditors that Washington University should have changed the classifications and coding of a number of items. "Extraordinary vigilance is required to stay within the letter and the spirit of the regulations. Washington University, as a reminder of its efforts to be in compliance in every way. Until we are certain that we have all of these matters under control, we will have our outside accountants conduct a second audit of our indirect cost reports to check our perceptions and actions," Berg said.

Chancellor William H. Danforth has written to all faculty and staff about this matter.

**Center**

continued from p. 1

center to study law, business and economics was first proposed by the business school faculty in its 1976 proposal to the John M. Olin Foundation. A $100,000 grant was made to the school by the Olin Foundation to study the feasibility of the project in part from a $35 million challenge grant made to the school by the Olin Foundation in 1976. The school later was named for businessman and philanthropist John M. Olin.