Washington University Record, July 24, 1997

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Early research

Washington University Prefreshman Program participants Autumn Rabe of Upland, Calif., and Richard Souvenir of Skokie, Ill., work together to determine the concentration of bacteria in a culture sample during an orientation laboratory in Room 125 Redstock Hall. The annual summer program offers select students with interests in the life sciences an early opportunity to work and study at Washington University before beginning their freshman year in the fall. This year, 18 participants were selected from 275 applicants to work with University mentors in a variety of research situations from mid-June through early August. Funded by a grant from the Howard Hughes Medical Institute, the four-year-old program is directed by Elaine Alexander, assistant outreach coordinator in the Department of Biology in Arts and Sciences.

Congress mulls education provisions in tax bill

As the Record goes to press, Congress is finalizing the Revenue Reconciliation Act of 1997 (H.R. 2014). The proposed tax bill includes many provisions of interest to the higher education community.

This year's $135 billion tax-cut package working its way through Congress has both positive and negative provisions regarding higher education.

Higher education leaders across the country are supporting a tax package that includes proposed tax credits and deductions as well as savings incentives for higher education.

Provisions in the 1997 tax bill include:

• a Hope tax credit of up to $1,500 each year for the first two years of college;
• a tax credit or deduction for lifelong learning, available for undergraduate and graduate education;
• permanent extension of employer-provided educational assistance (Section 127) for undergraduate and graduate education, which would ensure that working adults can participate in higher education without adverse tax consequences;
• reinstatement of the student loan interest deduction to help student borrowers repay loans after graduation;
• incentives to help families with young children save for college expenses;
• elimination of the cap on tax-exempt bonds for facilities at private non-profit institutions.

University leaders have expressed opposition to two provisions in the House-passed bill that would impose new taxes on students, employees and retirement benefits.

One provision in the House-version of the bill (Section 115(d)) would tax tuition benefits received by employees at Olin.

International study sites added to Olin program

Business schools in Paris and Hong Kong have just been added to the growing list of international connections for Washington University's John M. Olin School of Business, thanks to recently signed undergraduate student exchange program agreements.

This fall semester, five undergraduate students from Chinese University of Hong Kong and five students from the John M. Olin School of Business will spend a fall semester working and studying at Washington University.

Traveling is serious business for undergraduate

For Brent Sobol, studying and seeing the world go hand-in-hand. The business administration junior's latest stop is London, where he's taking "International Economics and Finance" and "International Business: A European Perspective" through the John M. Olin School of Business. He's one of 20 Olin students (10 undergraduate and 20 graduate) enrolled in the summer session of the school's London program.

During August, the month off, he plans to travel to the northern part of the United Kingdom, Northern Ireland, the Republic of Ireland, Amsterdam and Sweden — all before returning to London for a 15-week internship with Unilever PLC, London. Sobol, who will graduate next spring, is majoring in finance and economics.

The complications of fetal alcohol syndrome have been traced to a crucial developmental gene

Hit the road 5

Drinking's damage 2

The complications of fetal alcohol syndrome have been traced to a crucial developmental gene.

Rules and regs 3

Administrative law is an appealing prospect for School of Law Professor Ronald M. Levin, J.D.

A theoretical journey down Manhattan's stealth architecture students put their talents to work

In this issue...
Kelly will direct new cardiovascular research center

Dennis P. Kelly, M.D., associate professor of medicine and of molecular biology and pharmacology, has been named director of the Cardiovascular Research Center (CCR). This appointment was announced by Michael E. Cain, M.D., the Lewis Professor and chair of the Cardiovascular Division, and Gustavo Schiavon, M.D., professor and chair of the Department of Medicine.

The CCR will provide a unique, horizontally structured research environment for scientists with diverse backgrounds but a common interest in the biology and pathobiology of the heart and vasculature. A major objective of the CCR is to establish novel interfaces between diverse scientific disciplines. The center is structured to facilitate interactions with several research groups at the School of Medicine, including those in cardiovascular and biomedical engineering, basic science departments, the pediatric cardiovascular program, and other cardiovascular research groups. Additional objectives are to provide an exciting and scientifically rigorous training environment for graduate students, postdoctoral trainees and research fellows and to facilitate sharing of core research resources.

Kelly joined the Washington University faculty in 1990 as an assistant professor of medicine. He became an associate professor of medicine and of molecular biology and pharmacology in 1995. Kelly has developed an internationally recognized effort in cardiovascular molecular biology. His work has focused on inherited defects and molecular regulation of mitochondrial protein synthesis and for energy generation in the heart.

Kelly’s early work characterized the molecular basis of canine acute fatty liver disease, a chain of events that lead to activation of fatty acid oxidation and cause death and heart failure in patients with familial cardiomyopathy. His work also led to a transgenic animal model and screening assay for the diagnosis of MCAD deficiency.

Kelly’s laboratory has focused on the molecular pathogenesis of cardiac hypertrophy, heart failure and repair. Using transgenic mouse technology, Kelly’s laboratory has identified a novel transcriptional regulatory pathway that is reinduced with fatty acid oxidation. This developmental gene appears to be pivotal in producing fetal alcohol syndrome. Researchers have long wondered how alcohol inflicts such widespread damage on developing embryos. Many studies have produced many theories, but most experts agreed that alcohol must cause a complex network of genes to be expressed differently and that the real answer may be much more simple. Using pregnant mice as models, School of Medicine researchers have traced the complications of fetal alcohol syndrome to a single alcohol-impaired gene. The study was described in the July 8 issue of the Proceedings of the National Academy of Sciences.

Leonard Rifas, M.S.; Dwight Towner, M.D., Ph.D.; and Louis Avioli, M.D., all members of the Division of Bone and Mineral Diseases, discovered that alcohol blocks the expression of a crucial developmental gene called msx2. In embryos of mice, humans and other mammals, this gene helps control the development of the brain, heart, limbs, skin bones and other structures. When researchers injected pregnant mice with alcohol, the gene essentially disappeared in developing embryos.

“Nobody had ever studied how alcohol affects developmental genes,” said Rifas, a research assistant professor of medicine and lead investigator of the study. “Alcohol suppression of msx2 might be a step toward understanding the entire mechanism of fetal alcohol syndrome, maybe to the point that we can intervene. We are now working on ways to reverse alcohol damage in the embryos. Researchers have long wondered alcohol affects developmental genes,” said Rifas. Researchers have long wondered how alcohol inflicts such widespread damage on developing embryos. Many studies have produced many theories, but most experts agreed that alcohol must cause a complex network of genes to be expressed differently and that the real answer may be much more simple. Using pregnant mice as models, School of Medicine researchers have traced the complications of fetal alcohol syndrome to a single alcohol-impaired gene. The study was described in the July 8 issue of the Proceedings of the National Academy of Sciences.

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Alcohol-impaired gene linked to fetal alcohol syndrome

Women who would like to test an alternative to daily birth-control pills may be eligible for a study of monthly hormone injections.

Diane F. Merritt, M.D., associate professor of obstetrics and gynecology, is participating in a national study to test monthly injections of Cyclo-Provera, a combination of estrogen and progestrone.

"Monthly injections are widely used in Europe, where they are as effective as correctly used pills or tubal ligation," Merritt said. "Women who want effective birth control but have trouble remembering to take a daily pill may select this option.

The St. Louis site will enroll 30 sexually active women between ages 18 and 49. Volunteers should be fertile but not want to become pregnant for at least 60 weeks. For information, call (314) 454-8988.
Law professor Ronald M. Levin, J.D., discusses administrative law issues with second-year law student Justin Sage in the Janite Lee Reading Room in Anheuser-Busch Hall.

"I try to raise questions for students about what the rules of the game should be..."
Exhibitions


Wednesday, July 30
6:30 p.m. Anesthesiology Grand Rounds. Topic to be announced. Speaker to be announced.

Correction

The Staff Day story in the June 12 issue of the Record incorrectly named the winner of a trip to Chicago. The winner is... 

Music

Sunday, July 20
7:30 p.m. Orchestra concert. The Gateway Festival Orchestra of Saint Louis, directed by William Schuetz. Program includes Overture to "Rosenkavalier" by Richard Strauss; Sinfonietta No. 9 in E-Flat Major by Dmitri Shostakovich; Concerto for Cello in D minor (first movement) by Edward Elgar; "Techne" from "A Tragedy" by Johann Strauss Jr. and selected works by the COCA Sound Orchestra, directed by Nora Rouse, graduate student. 569-0731.

Wednesday, July 23

Miscellany

Catholic Student Center summer mass schedule. Summer masses will be held at 11 a.m. on Sundays. Catholic Student Center, 6323 Forsyth Blvd. 725-7338.

Registration open for the following Office of Continuing Medical Educa- tion seminars: "Current Topics in Cardiothoracic Anesthesia: Perioperative Management" (Sept. 4-6); "Contempo- rary Cardiothoracic Surgery" (Sept. 18- 20); and "New Techniques in Urology: Incontinence and Female Urology" (Oct. 18). Eric P. Newman Education Center. Call 362-6891 for times, costs to register.


Call 362-206 for times, costs to register.

Call 362-4926 for times, costs to register.

Vienna Fest 1997


Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organiza- tions and recognized student organizations — are published in the Calendar. All other events must be open to the public unless otherwise noted.

Calendar submissions should state time, date, place, sponsor(s), title of event, name(s) of speakers and/or affiliation(s), and admission cost. Quality promotional photographs with descriptions should be submitted with the event information. Send items to Judy Ruhland at Campus Box 1070 or via fax to (314) 935-4299. Submission forms are available by calling (314) 935-4926.

Brent Sobol on the campus of Hong Kong University of Science and Technology, where he studied last spring through a John M. Olin School of Business program. Sobol, from Michigan, Ill., also is considering returning to HKUST to study business after graduation. "My top three choices for places to go are Asia, South America and Eastern Europe," he said. "But, if I’m accepted, they’ll decide the best match for my experience."
WASHINGTON UNIVERSITY DRUG AND ALCOHOL POLICY

A federal mandate requires that the following Drug and Alcohol Policy be distributed to all Washington University employees and students. Please post or file accordingly.

I. Introduction

The president’s National Drug Control Strategy, issued in September 1989 proposed that Congress pass legislation to require schools, colleges and universities to implement and enforce drug prevention programs and policies as a condition of eligibility to receive federal financial assistance, including student financial aid. On December 12, 1989, the president signed the Drug-Free Schools and Communities Act Amendments of 1989, Public Law 101-226. That law also requires institutions receiving federal financial assistance to prevent the illegal use of alcohol by students and employees.

The law requires that, as a condition of receiving federal funds, Washington University must certify that it has adopted and implemented a program to prohibit the unlawful possession, use or distribution of illicit drugs and alcohol on Washington University property or as part of any of its activities. Accordingly, Washington University has instituted this policy, which became effective on and after October 1, 1990.

II. Policy Statement

It is the goal of Washington University to protect the public health and environment of members of the University by promoting a drug-free environment.

In accordance with the mandate of the federal legislation, the manufacture, distribution, possession or use of illicit drugs, and the unlawful possession, use or distribution of alcohol on Washington University property or as part of any of its activities is prohibited.

Violations of the policy will be handled according to existing policies and procedures covering the conduct of administrators, faculty, students, and staff.

A. Standards of Conduct — Illicit Drugs: The unlawful manufacture, possession, distribution or use of illicit drugs on Washington University property or as part of any of its activities by University students, employees or their guests is prohibited.

B. Standards of Conduct — Alcohol: Federal legislation prohibits the unlawful possession, use or distribution of alcohol. Therefore, the possession and use of alcohol by non-intoxicated persons twenty-one (21) years of age or older is, according to Missouri law, lawful. University policies limit the lawful use of alcohol to appropriate occasions. Undergraduate students should contact the Office of Student Affairs for standards governing student parties and student use and possession of alcohol. Graduate students should contact their Dean’s office. Contact the Office of Human Resources on either campus for specific standards governing non-academic employees.

III. Legal Sanctions

A. Drugs: The manufacture, possession, sale, distribution and use of illicit drugs is prohibited by city and county ordinance, state law and federal statute. Punishments range from fines of $50 to life imprisonment. The statutes and ordinances define the drugs deemed “illicit.” Attached, as Appendix A, is a summary of federal sanctions. Chapter 195 of the Revised Statutes of Missouri addresses illicit drugs. Section 195.214 of the Missouri statutes specifically prohibits the distribution of any controlled substance on University property. Persons convicted of this offense can be sentenced to imprisonment for not less than ten (10) years. To review specific provisions of applicable ordinances and statutes, contact the Office of the General Counsel (935-5152).

B. Alcohol: Missouri’s Liquor Control Law makes it illegal for a person under the age of twenty-one years to purchase, attempt to purchase, or possess any intoxicating liquor. Section 311.325 RSMo. Violation of this provision can subject one to a fine between $50 and $1000 and/or imprisonment for a maximum term of one year. County and municipality ordinances contain similar prohibitions and sanctions. To review specific provisions of applicable ordinances and statutes, contact the Office of the General Counsel (935-5152).

IV. Health Risks

A. Drugs: Severe health risks, including death, are associated with the use of illicit drugs. Some are stated in Appendix B. For further information, contact the Center for Chemical Abuse Prevention Education (CAPE) (935-4062) or the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523).
B. Alcohol: Abuse of alcohol can produce severe health risks, including death. Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person’s ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, also can lead to permanent damage to vital organs such as the brain and the liver.

Women who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than other youngsters of becoming alcoholics. For further information, contact the Center for Chemical Abuse Prevention Education (CAPE) (935-4062) or the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523).

V. Available Drug or Alcohol Counseling, Treatments or Rehabilitation or Re-entry Programs

A. The Center for Chemical Abuse Prevention Education (CAPE) provides the Washington University community with alcohol and other drug information, education, brief assessment and referral. Outside treatment options include self-help groups, long- and short-term outpatient programs, individual and group programs, and residential short- and long-term treatment programs. CAPE also provides assistance with re-entry into the University community following completion of an outside treatment program. All services are free and confidential. Call 935-4062 for an appointment or more information.

B. Other University resources include the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523), the Psychological Service Center (935-6555) and the Department of Psychiatry (362-7002).

C. Numerous non-University programs exist in the St. Louis metropolitan area. Many programs advertise extensively in local media. Consultation with one’s personal physician is advised prior to self referral to such non-University programs. For further information regarding referral to such programs, contact CAPE, University Health Services or your private physician.

VI. Disciplinary Sanctions

Different disciplinary procedures are applicable to faculty, staff and students. Violations of the standards of conduct will be dealt with on a case by case basis with the imposition of discipline being appropriate to the severity of the violation. For each group comprising the University community, there are certain common sanctions that could be applied in an appropriate case. These common sanctions include letters of reprimand, probation and severance of ties with the University, through expulsion or termination. Normally, opportunity for referral to an appropriate rehabilitation program occurs and is usually associated with a first offense. Referral for prosecution will undoubtedly occur only for the most serious violations.

A. Faculty: Faculty discipline is normally administered, in the informal manner, by the faculty member’s department head, dean or by the provost. Faculty members can be terminated for cause only after a hearing conducted before a panel of faculty peers.

B. Staff: The non-academic staff is subject to disciplinary procedures administered by the staff member’s department in consultation with the human resources offices on the Hilltop and Medical campuses. The normal range of personnel actions could occur. Staff members are entitled to hearing and redress by a panel of peers.

C. Students: The University Judicial Code governs students’ conduct and establishes procedures for adjudicating complaints against students. Expulsion is the most severe sanction possible. In addition, residence halls (including fraternity houses) can impose discipline upon residents. The University may terminate the residence hall contracts of students violating its standards.
## Controlled Substances — Uses and Effects

<table>
<thead>
<tr>
<th>Drugs/CSA Schedules</th>
<th>Trade or Other Names</th>
<th>Medical Uses</th>
<th>Dependence</th>
<th>Tolerance</th>
<th>Duration (Hours)</th>
<th>Usual Method of Administration</th>
<th>Possible Effects</th>
<th>Effects of Overdose</th>
<th>Withdrawal Syndromes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Narcotics</strong></td>
<td></td>
<td></td>
<td></td>
<td>Physical</td>
<td>Psychological</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opium</td>
<td>II III V</td>
<td>Analgesic, antidiarrheal</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
<td>Oral, smoked</td>
<td>Euphoria, drowsiness, respiratory depression, hallucinations, loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating</td>
<td>Watery eyes, runny nose, yawning, loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating</td>
</tr>
<tr>
<td>Morphine</td>
<td>II III</td>
<td>Analgesic, Antitussive</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Codeine</td>
<td>III V</td>
<td>Analgesic, antitussive</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>3-6</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>II</td>
<td>Analgesic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heroin</td>
<td></td>
<td>None</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>3-6</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methadone</td>
<td>II</td>
<td>Analgesic</td>
<td>High</td>
<td>High-Low</td>
<td>Yes</td>
<td>12-24</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Narcotics</td>
<td>III IV</td>
<td>Analgesic, antidiarrheal</td>
<td>High-Low</td>
<td>High-Low</td>
<td>Yes</td>
<td>Variable</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Depressants</strong></td>
<td></td>
<td></td>
<td></td>
<td>Physical</td>
<td>Psychological</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloral Hydrate</td>
<td>IV</td>
<td>Hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>5-8</td>
<td>Oral</td>
<td>Skidded speech, disorientation, drunken behavior without odor of alcohol</td>
<td>Anxiety, insomnia, tremors, delirium, convulsions, possible death</td>
</tr>
<tr>
<td>Barbiturates</td>
<td>II III IV</td>
<td>Anesthetic, sedative, hypnotic, respiratory depression, hallucinations, loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating</td>
<td>High-Mod.</td>
<td>High-Mod.</td>
<td>Yes</td>
<td>1-16</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzodiazepines</td>
<td>IV</td>
<td>Antianxiety, Anticonvulsant, sedative, hypnotic, respiratory depression, hallucinations, loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating</td>
<td>Low</td>
<td>Low</td>
<td>Yes</td>
<td>4-8</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methaqualone</td>
<td>I</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>4-8</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glutethimide</td>
<td>III</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>4-8</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Depressants</td>
<td>III IV</td>
<td>Antianxiety, sedative, hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>4-8</td>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stimulants</strong></td>
<td></td>
<td></td>
<td></td>
<td>Physical</td>
<td>Psychological</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocaine</td>
<td>II</td>
<td>Local anesthetic</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>1-2</td>
<td>Sauced, smoked, injected</td>
<td>Increased alertness, excitement, euphoria, increased pulse rate &amp; blood pressure, hallucinations, convulsions, possible death</td>
<td>Agitation, apathy, long periods of sleep, inslability, depression, disorientation</td>
</tr>
<tr>
<td>Amphetamines</td>
<td>II</td>
<td>Attention deficit disorders, narcolepsy, weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenmetrazine</td>
<td>II</td>
<td>Weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylenedipropion</td>
<td>II</td>
<td>Attention deficit disorders, narcolepsy</td>
<td>Possible</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Stimulants</td>
<td>III IV</td>
<td>Weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hallucinogens</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSD</td>
<td>I</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
<td>Oral</td>
<td>Illusions and hallucinations, poor perception of time and distance</td>
<td>Longer, more intense &quot;trip&quot; episodes, psychosis, possible death</td>
</tr>
<tr>
<td>Mescaline and Peyote</td>
<td></td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
<td>Oral</td>
<td></td>
<td>Withdrawal symptom not reported</td>
</tr>
<tr>
<td>Amphetamine Variants</td>
<td>I</td>
<td>None</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>Variable</td>
<td>Oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phencyclidine</td>
<td>II</td>
<td>Unknown</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>Days</td>
<td>Smoked, oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phencyclidine Analogues</td>
<td>II</td>
<td>Unknown</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>Days</td>
<td>Smoked, oral, injected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Hallucinogens</td>
<td>I</td>
<td>Unknown</td>
<td>None</td>
<td>Unknown</td>
<td>Possible Variable</td>
<td>Smoked, oral, extracted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cannabis</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Marijuana</td>
<td>I</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, oral</td>
<td>Euphoria, relaxed inhibitions, increased appetite, disoriented behavior</td>
<td>Insomnia, hyperactivity, and decreased appetite occasionally reported</td>
</tr>
<tr>
<td>Tetrahydrocannabinol</td>
<td>II</td>
<td>THC, Marinol</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hashish</td>
<td>I</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hashish Oil</td>
<td>I</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, oral</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Designated a narcotic under the CSA.  
2 Not designated a narcotic under the CSA.
Federal Trafficking Penalties

<table>
<thead>
<tr>
<th>CSA</th>
<th>2nd Offense</th>
<th>1st Offense</th>
<th>Quantity</th>
<th>DRUG</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Not less than 10 years, Not more than life.</td>
<td>Not less than 5 years, Not more than 40 years.</td>
<td>100 gm or more or 100-999 gm mixture</td>
<td>METHAMPHETAMINE</td>
<td>100 gm or more or 1 kg or more mixture</td>
</tr>
<tr>
<td>I</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>Fine of not more than $4 million individual, $10 million other than individual.</td>
<td>100-999 gm mixture</td>
<td>HEROIN</td>
<td>1 kg or more mixture</td>
</tr>
<tr>
<td>I</td>
<td>Fine of not more than $4 million individual, $10 million other than individual.</td>
<td>Fine of not more than $500,000 individual, $1 million other than individual.</td>
<td>500-4,999 gm mixture</td>
<td>COCAINE</td>
<td>5 kg or more mixture</td>
</tr>
<tr>
<td>I</td>
<td>Not more than 5 years. Not more than life.</td>
<td>Fine not more than $1 million individual, $5 million not individual.</td>
<td>5-49 gm mixture</td>
<td>COCAINE BASE</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
</tr>
<tr>
<td>I</td>
<td>Fine of not more than $2 million individual, $1 million not individual.</td>
<td>Fine not more than $5 million other than individual.</td>
<td>50-99 gm or 100-999 gm mixture</td>
<td>PCP</td>
<td>Not more than 10 years. Not more than life.</td>
</tr>
<tr>
<td>I</td>
<td>Not more than 10 years. Not more than life.</td>
<td>Fine not more than $1 million individual, $5 million not individual.</td>
<td>1-10 gm mixture</td>
<td>LSD</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
</tr>
<tr>
<td>I</td>
<td>Fine of not more than $2 million individual, $1 million not individual.</td>
<td>Fine not more than $5 million other than individual.</td>
<td>10-99 gm mixture</td>
<td>FENTANYL</td>
<td>Fine of not more than $4 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>I</td>
<td>Not more than 1 year. Not more than life.</td>
<td>Fine not more than $1 million individual, $5 million not individual.</td>
<td>40-999 gm mixture</td>
<td>FENTANYL ANALOGUE</td>
<td>Fine of not more than $20 million other than individual.</td>
</tr>
<tr>
<td>I</td>
<td>Fine of not more than $10 million individual, $25 million not individual.</td>
<td>Fine not more than $50 million other than individual.</td>
<td>10-99 gm or 100-999 gm mixture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**APPENDIX A**

Federal Trafficking Penalties — Marijuana

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>FIRST OFFENSE</th>
<th>SECOND OFFENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 kg or more; or 1,000 or more plants</td>
<td>Marijuana Mixture containing detectable quantity*</td>
<td>Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $4 million individual, $10 million other than individual.</td>
<td>Not less than 20 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $8 million individual, $20 million other than individual.</td>
</tr>
<tr>
<td>100 kg to 1,000 kg; or 100-999 plants</td>
<td>Marijuana Mixture containing detectable quantity*</td>
<td>Not less than 5 years, not more than 40 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.</td>
<td>Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $4 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>50 to 100 kg</td>
<td>Marijuana</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine $2 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>10 to 100 kg</td>
<td>Hashish</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine $2 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>1 to 100 kg</td>
<td>Hashish Oil</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine $2 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>50-99 plants</td>
<td>Marijuana</td>
<td>Not more than 5 years. Fine not more than $250,000 individual, $1 million other than individual.</td>
<td>Not more than 10 years. Fine not more than $2 million individual, $5 million other than individual.</td>
</tr>
<tr>
<td>Less than 50 kg</td>
<td>Marijuana</td>
<td>Not more than 5 years. Fine not more than $250,000 individual, $1 million other than individual.</td>
<td>Not more than 10 years. Fine $500,000 individual, $2 million other than individual.</td>
</tr>
<tr>
<td>Less than 10 kg</td>
<td>Hashish</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine $2 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>Less than 1 kg</td>
<td>Hashish Oil</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine $2 million individual, $10 million other than individual.</td>
</tr>
</tbody>
</table>

*Includes Hashish and Hashish Oil

(Marijuana is a Schedule I Controlled Substance)
Manchester Road is an on-going project to provide learning opportunities for architectural students. The project is led by Jo Noero, the Chairman of Architecture at the School of Architecture graduate students. The students are studying different sections of the Manchester Road area, including urban blight, a lack of community parks, and areas, rapid commercialization that often is devoid of any real design standards.

The students' idea was to remove the barrier of the parking structure and enliven the area with additional small businesses and activity. Graduate student Monique Rogers' concept called for creating a central elevated plaza with a variety of small shops and parking underneath. Her inviting designs would allow shoppers to experience the area's new characteristics and feel approached by a car as they are strolled through the plaza.

The students' solution was to remove a large strip of adjacent property to the road and to transform the city hall into a municipal facility that would have a sense of presence on top of the slight hill. They also suggested adding a library, community arts center, retail stores and small town park. The idea was to create an area with a civic sense that would tie into — but still protect — the residential area to the north, Tyler said.

In the fourth section, the students discovered the area was completely dominated by modern, generic-looking strip malls and mega-stores. The solution was to create a town center and introduce the sense of history and community characterized by earlier sections of the road. The students want to give community members a reason to stop and interact with one another rather than just moving from car to store to car along the seemingly endless stretch of road.

In the final section, Manchester Road becomes a four-lane highway, and the students had to anticipate how this ultimately would influence the surrounding undeveloped farmland. The students again wished to create a community center, but they also played off of the culture of fast moving cars along the highway. They proposed a well-oriented planners for a motel; another designed a service station that would actually bridge the roadway and symbolize the gateway from development to undeveloped areas.

"In real practice, architects look at existing conditions and make decisions based on what is at a given site," Tyler said. "The Manchester Road project helped us understand approaches to investigating and addressing very real circumstances."

— Ann Nicholson

Fake quake
A new earthquake simulation facility is the centerpiece of the Structural Control and Earthquake Engineering Laboratory in Urbana Hall. Shirley J. Dyke, Ph.D., assistant professor of civil engineering and laboratory supervisor, and Stephen Frech, a senior in civil engineering, inspect the hydraulic actuator, which moves across a 5-foot-square tabletop creating a shaking force similar to an earthquake. Dyke designed the equipment to test the performance of systems that can help buildings and bridges resist earthquake damage.

Program helps students get to know WU
The following incidents were reported to the University Police Department from June 8-July 13. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

- two violations of the skates, skateboard
- one report of accidental injury
- one report of burglary and stealing
- one report of fire
- one report of theft
- seven reports of vandalism
- one report of injury
- two violations of the skateboards, skateboard
- one report of assault
- one report of theft
- one report of a minor in Spanish
- one report of theft
- one report of vandalism
- one report of theft
- one report of assault
- one report of a minor in available lockers and use a high-grade lock. If possible, avoid bringing valuables to the Athletic Complex.

Issued 4/12/97: Food poisoning cases are on the increase. Students, on July 4 and 12, University Police have received reports of 18 thefts from various locations in the Athletic Complex, specifically outside the racquetball courts, in the weight room and in the men's locker rooms. Take items that have been taken from backpacks and drawers, keep personal wallets and cash. Secure all personal property in available lockers and use a high-grade lock. If possible, avoid bringing valuables to the Athletic Complex.

Issued 4/10/97: Summer scholars program, he said, has made his college application decision a lot easier. "Washington University is on my list of top colleges," Lee said. "That's been here, it has an advantage over the other schools. It's top three or four, where as before, it was one of the top 10." Matt Nobel is also considering Washington University as a college where he wants to study science and social sciences. Nobel turned down two offers from other universities, including Harvard University to come to Washington University for the summer scholars program. The 17-year-old is taking three classes and enjoying his first trip to St. Louis from his hometown of Iowa City.

Nobel chose summer school because he wants to get ahead on his final year of high school. "I want to make my senior year as productive as possible," he said. "I don't want to feel like I wasted my summer away." Nobel is pleased with his decision. The program not only has introduced him to college, it has offered him contact from students with other cultures. "For a group our size, the amount of diversity is incredible," Nobel said. "We're also happy about the contact with faculty. Small classes mean you get a lot of personal attention (there are only five students in his "Introduction to Philosophy") class. "I'm really impressed that I'm getting a lot of contact," he said.

Pete Mandik, the instructor of Nobel's philosophy class, is impressed with the caliber of the summer scholars. "The high school students in my class don't hold their own," Mandik said. The group does just as well on written exams and oral presentations.

I think the program offers high school kids an opportunity to see themselves as college students, and often their self-confidence, Mandik continued. "The high school students often feel that they're being exposed to something they're not used to, something they're not used to... something totally different from their situation, something that isn't unlike anything typically encountered in high school. Having that experience, they're able to give them an edge over their peers who are starting college, Mandik said. "...as well as when they go on to pursue further college instruction."
Webmaster Miller oversees link to campus community, world

Gail Miller's title is a sign of the importance of the position. "I think I have the most fun job on the campus!" he said.

Miller may be reached by email at webmaster@wustl.edu.

Two University administrators plan for retirement

Financial operations advanced under Weeks

L ee G. Weeks will retire as vice chancellor for financial operations, chief financial officer and controller not later than Sept. 30.

In a retirement announcement letter dated July 3, Mark S. Wrighton wrote: "Lee has been a great contributor to us in a time of need and transition. He took up his duties here after a long and distinguished career of teaching and research and has advanced our financial operations in every significant way. I will miss his leadership as we build a financial future for Washington University in his debt for taking up a tough job and doing it well," she said. "It's always been an interest for me."

Over the years, Miller turned that interest into a career. After receiving a bachelor's degree in mass communications in 1988 from Southern Illinois University-Edwardsville, Miller got a job in the Instructional Media Center at Saint Louis University. During her 10 years at SLU, she earned a master's degree in communications. Miller has spent a year working for a software company in a small town in England. These days, Miller can be found on the main level of Olin Library, where she works under the supervision of Baker and Paul Buchanan, directors of computing and telecommunications.

Already, she has had a noticeable effect. About three weeks after Miller joined the University, a redesign of the Web site was launched, complete with a different graphic look and a new color scheme: red and green. It is still a site that works, "a work in progress."

The changes planned for the Web site are the creation of a virtual tour of campus and the addition of a search engine that lets browsers go directly to a specific area on the site.

Baker is pleased. "Gail brings to the Webmaster position both technical and as group vice president (1981-82), chief financial officer (1988-91), group vice president for financial services (1978-1980), assistant vice president (1977), corporate controller (1966-1997) and held several other key appointments after he joined the company."

A native of Cincinnati, Weeks earned a bachelor's degree in accounting from the University of Cincinnati. He is a 1973 graduate of the Harvard Business School Advanced Management Program and is a certified public accountant.

Weeks has been a member of the American Institute of Certified Public Accountants, the American Management Association and the Financial Executives Institute.

Weeks has held various positions with the Franklin National Bank, Vice President of the Bank of America and was named to the position in 1992.

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Gruia-Catalin Roman named chair of computer science department

Gruia-Catalin Roman, Ph.D., professor of computer science, has been named chair of the Department of Computer Science in the School of Engineering and Applied Science, effective July 1, 1997.

Roman's appointment was made following a national search of candidates conducted by the computer science faculty at the conclusion of a competitive national search.

He succeeds Jonathan S. Turner, Ph.D., the Henry Edwin Sever Professor of Engineering, who will be chair of the Department of Computer Visualization Laboratory from 1998 to 1999.

Roman joined the faculty of Computer Science in 1991. Turner returns to teaching and research after serving as department chair from 1989 to 1993.

Gruia-Catalin Roman

Roman joined the Washington University faculty in 1976 as assistant professor of computer science. He was named associate professor in 1981 and professor in 1990. Roman founded the Washington University Computer Visualiza-

of the competition. In May, the law school also honored Judge David M. Breckenridge Practice Court Prize for proficiency in preparation of legal briefs, and presented the Annual Excellence in presentation of oral arguments in Moot Court competition.

V. R. K. Rau, assistant professor of anatomy and neurology, recently received a 1997 John Merck Scholarship in the Biology of Developmental Disabilities in Children. The $240,000 award will be applied toward travel and research for four years. Rau studies molecular and cellular mechanisms that control nervous system development...

Gruia-Catalin Roman, Ph.D., professor of computer science, has been named three grants by the National Science Foundation. He received a two-year $123,270 grant to study mobile computing, an area of growing significance spurred by recent advances in wireless communication. Roman received $94,000 from Philips Healthcare, Ph.D., professor of computer science, Eileen T. Kraemer, Ph.D., asso-

1997 National Environmental Law Moot Court Competition, held in White Plains, N.Y. Roman received $400,000 from the March of Dimes Foundation for a project titled "Rheumatoid Arthritis: Role of Glycolipid in Early Mammalian Development," features speculative fiction, which includes both science fiction and fantasy. The competition is funded by an endowment from Bernard and Joan Maloof, 1997 graduates of the John M. Olin School of Business...

Jonathan B. Turner, Ph.D., associate professor of pediatrics and of pathology, received a $400,000 five-year Scholar Award from the Children's Cancer Research Fund from the Burroughs Wellcome Fund...

The article is a description of a medical degree from the University of Pennsylvania. He earned a Ph.D. in computer science in 1976 with emeritus status...

A native of New England, Spiess was born in 1913 in Hartford, Conn. He received his medical degree from the University of Basel in 1937, and Ruth joined the School of Medi-

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Hilltop Cashiering Office to close July 25

Effective July 28, the Hilltop Campus Cashiering Office will permanently close. Many of the processes conducted at that office will continue at alternative locations.

- Personal checks and two-checks per week are not accepted.
- A minimum balance of $100 per account is required.
- A new checking account may be opened by signing up for classes.

For additional information, please call Blanche Johnson, employee relations manager, at (314) 935-5800.

Hilltop Cashiering Office to close July 25

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