

# OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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## Walt Williams Establishes Scholarship

Walt Williams, former Terrapin basketball star and current NBA rookie for the Sacramento Kings, has given the university a \$125,000 gift to establish a minority scholarship in the name of his father, Walter



Walt Williams

Williams Sr.

The scholarship is to give "a worthy and qualified young minority, particularly an African-American student, a chance for higher education when without it they may not have had one," said Williams at an April 1 press conference prior to a Bullet's home game against the Kings.

Williams will leave the selection of the recipients up to the university, but said it is not a basketball scholarship.

The university is "delighted...not only with this wonderful gift but that a person of such high profile as Walt Williams, who is so well known and so well loved, would make this kind of a gesture; we think it speaks

eloquently of what can be done with success," said Kathryn Costello, vice-president for Institutional Advancement.

Williams said the idea to endow a scholarship in his father's name "started when my father passed. He never had the opportunity to finish his education...I felt it was up to me to have a scholarship in his name to help people like himself who didn't have a chance to go to college."

Williams has the distinction of being the youngest person in university history to endow a scholarship.

—Heather Davis

## Len Elmore to Referee Charity Basketball Game

Walt Williams' agent, retired NBA great and university alumnus Len Elmore, will be returning to Cole Field House to guest-referee a charity basketball game between the University Police and the Intrafraternity Council to kick off Greek Week. President Kirwan will toss the ball for the opening tip-off. The event will be held April 19 at 8 p.m. Tickets will be \$2. Call 405-5723 for more information.

## Wilson to National Security Council Staff

Ernest J. Wilson III, associate professor of government and politics, has been appointed by President Bill Clinton as director of International Programs and Resources, a staff position for the National Security Council.

In a letter to President Kirwan requesting that Wilson be granted leave from the university, Anthony Lake, assistant to the president for National Security Affairs, stated "[Wilson's] position will have responsibilities for foreign assistance and for democratization, both areas of great importance to us. He is uniquely qualified to serve in this position."

Wilson holds a Ph.D. in Political Science from UC, Berkeley and was

associate professor of political science and director of the Center for Research on Economic Development at the University of Michigan before coming to College Park last fall.

At Maryland, he holds a joint appointment in Government and Politics and Afro-American Studies and is also senior fellow at the Center for International Development and Conflict Management. He currently serves on the editorial board of *The American Political Science Review*.

"I'm excited about working on some of the greatest changes in international affairs since World War II," said Wilson, prior to a meeting about the U.S. government's recent proposal to provide \$1.6 billion in aid to Russia.

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## Volcanoes Cause Climate Change

A new study by Alan Robock and Jianping Mao finds that the emissions from volcanic eruptions cause warmer than normal winters in parts of North America and Eurasia while making winters cooler in the Middle East.

"We were somewhat surprised by these findings," said Robock, associate professor of meteorology. "Although conventional wisdom holds that volcanic aerosols produce cooling at the surface due to reduction of incoming solar radiation, we found a mechanism that produces temporary warming."

Robock and graduate student Mao made their discovery after analyzing winter surface temperature data from 1883 to 1992. They correlated these temperatures with the 12 largest volcanic eruptions occurring during this

time frame, including the eruption of Mt. Pinatubo in the Philippines in 1991.

The scientists found that each of the eruptions in tropical regions caused the following winter to be warmer than normal. Eruptions occurring in high latitude regions resulted in warmer than usual temperatures during the second winter after the eruption in Eurasia and parts of North America, while winters were cooler than normal in the Middle East.

"The winter of 1992-1993, which just ended, showed the same pattern due to the persistence of the Mt. Pinatubo dust cloud," said Robock. "And the warm winter in Russia for

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## Alternatives to Leland Hospital

Leland Hospital officially closed on March 5, but there are three hospitals, all nearly equidistant from the campus, that meet any need for care. These are Washington Adventist, located on Carroll Avenue in Takoma Park; Prince Georges Hospital Center, located on Hospital Drive in Cheverly; and Doctor's Hospital, located on Good Luck Road in Lanham. As always, dial 911 or 53333 for emergency assistance. If you have any questions or concerns regarding Leland's closure, please contact Margaret Bridwell, director of the Health Center, at 314-48090.

## TQM and Continuous Improvement Update



George Dieter

To find out what is happening with Total Quality Management and Continuous Improvement at the university, John Fritz, editor of *OUTLOOK*, interviewed George Dieter, dean of the College of Engineering and director of the university's continuous improvement efforts. The following are excerpts:

**Q: We've heard a lot about Total Quality Management (TQM) and Continuous Improvement (CI), but what's the difference?**

A: Continuous Improvement is College Park's adaptation of what many people call "TQM." Central to both terms is a holistic rather than analytic approach to viewing organizations and their operations and community.

Organizations that take this approach operate on common principles such as a focus on the customer, respect for employees at all levels, an emphasis on preventing problems, cross-functional problem solving, data supported decision-making and constancy of leadership's support for the philosophy.

A planning committee formed by President Kirwan recommended last year that we adopt the term "Continuous Improvement" as the name for our change efforts because it focuses on achieving increasingly effective solutions to problems.

**Q: What specific examples of Continuous Improvement are there on campus?**

A: It's difficult to provide a quick summary, but let me provide you with a few highlights.

Many units on campus have undertaken serious efforts to understand customer requirements and satisfaction. You've probably noticed the feedback forms available throughout the Stamp Student Union and may

have received a telephone or written survey from the Bursar, Graduate School, or Resident Life.

Some units, such as Communication and Business Services, have used the AT&T Teaching Theater to gather anonymous interactive feedback from people they serve.

Residential Facilities videotaped four panels of students talking about their experiences with maintenance and housekeeping services in the residence halls.

"Hearing the Student Voice" is a specific CI team with cross-functional and student representation that has experimented with different forms of gathering feedback; one of their projects resulted in the recent letter to President Kirwan that was printed in *The Diamondback*.

Several units are introducing continuous improvement through the formation of problem-solving teams. For example, college level groups are now forming to examine undergraduate advising. The Health Center formed a CI team to identify student concerns, diagram root causes of problems, and recommend service changes. As a result, Health Center staff were able to measure decreases in student waiting time, create new medical excuse and parking policies, restructure the patient intake process, and install new directional signage throughout the building. Their work has been very successful and two more Health Center CI teams have been formed.

Overall, what is most impressive about these efforts is that most of them have been created and lead by the units themselves. Our campus staff has shown great resourcefulness and creativity.

**Q: How is the university's Continuous Improvement program related to the IBM-TQ grant that was announced last semester? Are the two efforts integrated in any way?**

A: While the Continuous Improvement program has a broad approach in both academic and administrative areas, the major thrust of the IBM-TQ grant is intended to enhance undergraduate education, particularly in the College of Business & Management and the College of Engineering.

Of course both efforts complement one another, and part of the IBM-TQ grant is intended to enhance the overall campus program. There are separate coordination and implementation teams for the IBM-TQ project that incorporate members from across the campus community. I am a member of that team, and several faculty and staff involved with the IBM-TQ project are independently involved with continuous improvement projects elsewhere on campus.

**Q: How can faculty and staff learn more about Continuous Improvement?**

A: All deans and vice presidents have received a binder of general readings which may be of interest to faculty and staff. In addition, the binder is available in all campus libraries and there are a set of additional readings in McKeldin Graduate Reserves. The library has also prepared two reference bibliographies about TQM/Continuous Improvement. There are several videos about TQM in business and industry that are available at NonPrint Media Services in Hornbake Library.

Campus staff, faculty and administrators who have received continuous improvement training may also be able to provide assistance. Campus deans participated in two days of training this past February. Individuals with specific interests or questions may want to contact Geno Schnell at 405-3866. In January, he began working as our associate director for Continuous Improvement.

## Continuous Improvement Resource People

Geno Schnell, associate director of the university's continuous improvement programs, reports that several staff and faculty received CI training over six weeks this past fall semester and have agreed to serve as campus resource persons. They are:

Mercy Coogan (Business & Management), 5-2312; Sue Elliott (Physical Plant), 5-3209; James Key (Engineering Research Center), 5-3903; Jon Rood (Communication and Business Services), 5-4405; Laura Slavin (Undergraduate Studies), 5-9361; Janet Schmidt (Student Affairs), 4-8435; Bill Walston (Mechanical Engineering), 5-2409; Rhythee Wilkes (Personnel), 5-5651; and Andy Wolvin (Speech Communication), 5-6521.

## Correction

In a March 29 photo caption, Mary Cothran was misidentified as the head of the President's Commission on Women's Affairs (PCWA). Cothran heads the Women of Color Committee of PCWA and is director of Multi-Ethnic Student Education. Margaret Bridwell chairs PCWA.

## OUTLOOK

*Outlook* is the weekly faculty-staff newspaper serving the College Park campus community.

**Kathryn Costello** Vice President for Institutional Advancement  
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**Judith Blair** Director of Creative Services

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least two weeks before the Monday of publication. Send it to Editor *Outlook*, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is jfritz@umdacc.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK



### Sexual Assault Hot Line Volunteers Needed

The Sexual Assault Assistance Program, a new Health Center program organized to help survivors of sexual offense, is looking for volunteers for its hot line, which will begin in September, 1993. Expertise in the area of sexual assault is not required. Volunteers are expected to provide 24-hour on call coverage several times a month, with a beeper to be provided by the program. Volunteer training is mandatory and will be held Aug. 30 through Sep. 3. For more information, contact Mary Hoban at 314-8128, or stop by room 2101 of the Health Center. Applications are due by April 26.

## INFO Puts Campus Email Users In Touch with the World

Want to find out what President Clinton said in a press conference yesterday?

Users of the INFO (Information On-line) System can get transcripts of the president's speeches and news conferences or even send messages to the president directly.

An electronic information database available to the university campus network, INFO provides information about many events, documents and resources, including all university committee reports and Campus Senate decisions.

INFO is a descendent of the "AIM" or "Access to Information about Maryland" computer system, which consisted of five stationary terminals located around campus. But troubles updating information caused administrators to seek a better system.

INFO can be reached virtually anywhere through a workstation with network or modem capabilities, so it is ultimately more accessible. And if you don't possess a computer or modem, INFO is available at any Workstations at Maryland (WAM) lab. Economics faculty already use

INFO to help teach their classes. A special database called "EconData" has been set up to store economical information and statistics from around the world.

By choosing the heading "Computers" from the main menu, users can get information about computer lab schedules and price sheets for equipment sold by the Computer Emporium.

There is also a database dedicated to the study of the Chesapeake Bay, and a directory dedicated to genetics information.

Through INFO you can read *USA Today*, the entire text of "Alice in Wonderland" or the U.S. Constitution.

"We're hoping that more and more faculty and staff will use INFO for their information needs," says Lou Murch, assistant director for Information Services.

Using INFO at home can be done by using a modem and dialing 301 403-4333 and then using "telnet info" to log in.

Because it is free and an account is not needed, INFO is in use outside of

the College Park community. In fact, by using the "Other Systems" option on the INFO menu, users can connect with the Wide Area Information Servers (WAIS), World Wide Web (WWW) and Gopher systems. You can browse through Glasgow University's library holdings, look for work on Gopher's Academic Position Network, or access the White House Electronic Mail system, which is on the Gopher system's "Internet Society" subdirectory.

Further details on how to log on and use INFO are available through a general handout from the Computer Science Center. For more information, call 314-8439.

—Stephen Sobek

### Meet the Man Who Runs the White House Email System

Jock Gill, director of Electronic Publishing and Public Access Electronic Mail for the White House, will be part of a panel discussion on national electronic information policy on Wednesday, April 14 at 2:30 p.m. See this week's Calendar for more details.

## Volcanoes

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the past two years, thanks to Mt. Pinatubo, may have helped prevent national chaos there."

According to Robock, the changes in weather caused by the volcanic eruptions result from complex interaction between volcanic gas emissions and the atmosphere as well as blocked and absorbed sunlight. In the case of winter warming, the heating of the tropical stratosphere by the volcanic aerosols creates an enhanced zonal wind which brings warmer marine air over portions of North America and Eurasia, warming the regions. The cooling in the Middle East is caused by volcanic aerosols blocking incoming sunlight.

Robock notes, however, that over a two-to three-year time scale, volcanic eruptions do lower ground temperature across the globe for several years.

—Gary Stephenson

## Faculty and Staff Appreciation Night is April 22

University Theatre, along with a number of campus sponsors, will present the second annual Staff and Faculty Appreciation Night, Thursday, April 22 at 8 p.m., with free tickets to "Not By Bed Alone" for all staff and faculty on that evening.

All staff and faculty will receive a flyer through campus mail, which they may redeem for one complimentary ticket.

Redeeming the flyer automatically enters employees to win special prizes. The prize list includes: two round-trip airfares to any USAir domestic destination, two tickets to

each 1993-94 University Theatre production, a \$50 gift certificate at Umberto's in the Stamp Student Union, a \$50 gift certificate for University Book Center, a \$50 gift certificate for Campus Photo portrait and custom framing package, two one-year passes to Hoff Theatre in the Stamp Student Union, and a special mystery prize. The drawing will be held immediately after the performance on Thursday, April 22.

For further information call the Tawes Theatre Box Office at (301) 405-2201 (voice and TDD) weekdays from 11 a.m. to 4 p.m.

## Center to Hold Dutch Culture Symposium

"The Public and the Private in Dutch Culture of the Golden Age," an international symposium sponsored by the Center for Renaissance and Baroque Studies, will be held April 23 and 24 at the University of Maryland University College Conference Center.

The symposium will feature 10 Dutch and six American historians and art historians speaking about the individual and society in 17th century Holland.

Sessions will be devoted to discussions of "The Working Class and the Destitute," "Religion and Representations of Charity," "Civic Culture and Private Identity" and "Collective Liberty and Action."

President William E. Kirwan will give the opening remarks and Frans Hulsman, counselor for press and cultural affairs at the Embassy of the Netherlands, will welcome the speakers and participants.

There is a \$30 registration fee, waived for students, to participate in the symposium. Lunch will be available both days for \$13.50.

The event is co-sponsored by the Department of Art History and Archaeology, the Department of History, and the College of Arts and Humanities.

For more information and registration forms, contact the Center for Renaissance and Baroque Studies at 405-6830.



*An Architectural Fantasy, by Jan van der Heyden, c.1670*



# CALENDAR

April 12-21

## 12 MONDAY

**Art Exhibit,** African Heritage costumes and instruments and related artwork, through April 30. Parents' Association Art Gallery, Stamp Student Union. Call 4-2787 for info.

**Architecture Exhibit:** "Soundings: The Work of John Hejduk," designs by the dean of Cooper Union Architecture School, Architecture Gallery, through April 30. Call 5-6284 for info.

**Art Gallery Exhibition,** "Art/Nature/Society," Selections from the Permanent Collection, through April 16. Call 5-2763 for info.

**Returning Students' Workshop,** Assertiveness, noon-1 p.m., 2201 Shoemaker. Call 4-7693 for info.

**Contemporary Spanish Cinema:** *Tristana*, (Luis Buñel, 1969), 4 p.m., Language House. In Spanish with English subtitles. Sponsored by Maryland Humanities Council. Call 5-6441 for info.

**Entomology Colloquium:** "The Ecological Consequences of Host Plant Choice by the Cottonwood Leaf Beetle, *Chrysomela scripta*," Mark Hardin, 4 p.m., 0200 Symons. Call 5-3911 for info.

**Computer Science Colloquium:** "Model-based User Interface Development Tools," James Foley, Georgia Tech, 4 p.m., 0111 Classroom Building (106), Call 5-2661 for info.

**Horticulture Colloquium:** "Enzyme Activity in Auxin Metabolism and Embryogenesis in Carrot Tissues," Gary Kuleck, USDA, 4 p.m., 0128 Holzapel. Call 5-4374 for info.

**Space Science Seminar:** "TSMM Flat Crystal Spectrometer Measurements of Coronal Abundances in Solar Active Regions: Variations on the Fip Theme," Julia Saba, Lockheed Solar and Astrophysics Laboratory, 4:30 p.m., 1113 Computer/Space Sciences. Call 5-6232 for info.

**Latin American Studies Center Author Dialogue,** in Spanish with Chilean author José Donoso, about his novel *Casa de Campo*, 5 p.m., 2215 Jimenez. Call 5-6441 for info.

## 13 TUESDAY

**Ecology and Evolutionary Biology Seminar:** "Homology of Mandibular Muscles Among Vertebrates: Phylogenetic Patterns and Their Ontogenetic Basis," Jaikun Song, noon, 1208 Zoo/Psych. Call 5-6884 for info.

**Information Policy in the Electronic Age Seminar:** "Electronic Policy and the Evolution of Networked Information Environment," Paul Evans Peters, Coalition for Networked Information, 4 p.m., 2460 A.V. Williams. Call 5-2033 for info.

**Symphonic Wind Ensemble,** John Wakefield, conductor, works by Williams, Nelson, Bach, Grainger, and Sousa, 8 p.m., Grand Ballroom, Stamp Student Union. Call 5-5548 for info.

## 14 WEDNESDAY

**Counseling Center Research and Development Meeting:** "The Evolution of

Body Image in American Culture," Caren Cooper, noon-1 p.m., 0106 Shoemaker. Call 4-7691 for info.

**Center on Population, Gender, and Social Inequality Seminar:** "Making the Connection Between Family and Work Visible Through State Policy," Kate Berheide, Skidmore, noon, 2115 Art/Soc. Call 5-6403 for info.

**Molecular and Cell Biology Seminar:** "Role of Fibronectin and Integrins in Cell Adhesion and Migration," Kenneth Yamada, NIH, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

**Decision and Information Sciences Panel Discussion:** "Toward a National Electronic Information Policy," panelists Jock Gill, White House Media Affairs; Daniel Michaelis, Bell-Atlantic; Daniel Weitzner, Electronic Frontier Foundation; moderated by Glenn Ricart, 2:30-4 p.m., 1412 MPA Bldg. Call 5-7700 for info.

**Water Resources Lecture:** "The Solid-Water Interface: A Common Meeting Ground for Engineers and Chemists," Werner Stumm, Swiss Federal Institute of Technology, 3 p.m., 1202 Engineering. Call 5-6829 for info.

**Astronomy Colloquium:** "The Two Micron All Sky Survey," Susan Kleinmann, U. Mass, 4 p.m., 1113 Computer/Space Sciences. Call 5-3001 for info.

## 15 THURSDAY

**Returning Students' Workshop:** "Multiple Roles," weekly discussion and support group to help women manage a variety of roles, 11 a.m.-noon, 2201 Shoemaker. Call 4-7693 for info.

**Writers Here and Now,** Molly Bendall, Steven Cramer and David St. John, 3:30 p.m., 1120 South Campus Surge. Call 5-3820 for info.

**Meteorology Seminar:** "Developments in a High Resolution Atmosphere Radiance/Transmission Code (HART-CODE) and Applications," Ferenc Miskolczi, 3:30 p.m., 2114 Computer and Space Science. Call 5-5392 for info.

**Spanish and Portuguese and Latin American Studies Center Lecture:** "Moving Around and Moving On: Spanish Migration in the Age of Expansion," Ida Altman, U. New Orleans, 4:30 p.m., Multipurpose Room, Language House. Call 5-6441 for info.

**Reliability Seminar:** "Neural Networks for Process Optimization," Thomas McAvoy, 5:15-6:15 p.m., 2110 Chemical and Nuclear Engineering. Call 5-3887 for info.

## 16 FRIDAY

**Undergraduate Admissions Open House,** including tours of the campus, visits to departments and residence halls, and an "Information Express Fair," 9 a.m. registration, Stamp Student Union Lobby. Call 4-8385 for info.

**Geology Seminar:** "Melting and Granulite Facies Metamorphism," James Beard, VA Museum of Natural History, 11 a.m., 0103 Hornbake. Call 5-4089 for info.

**Published Women Luncheon,** Amy Gardner, noon-1 p.m., Carriage House,

Rosborough Inn. \$10 admission. Call 5-9120 for info.\*

**First National Bank of Maryland Research Colloquium in Finance:** "Agency Cost of Debt, Investment and the Tax Code," Rex duPont, 1-2:30 p.m., 1203 MPA Bldg. Call 5-2256 for info.

**Mental Health Lunch 'N' Learn Seminar:** "Pastoral Counseling: An Overview," 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

**African Heritage Dancers and Drummers Performance,** 7:30 p.m., Parents' Association Art Gallery, Stamp Student Union. An art showcase will follow. Call 4-9816 for info.

**20th Century Music Ensemble:** "Saxpresso," for E-flat Alto Sax and Tenor, world premier commissioned work for Randy Navarre by Larry Moss, 8 p.m., Tawes Recital Hall. Pre-concert seminar, 5 p.m., 3116 Tawes. Call 5-5548 for info.

**Architecture Lecture:** "Soundings," John Hejduk, Cooper Union, 8 p.m., Architecture auditorium, Call 5-6284 for info.

## 17 SATURDAY

**Concert Society at Maryland,** Orion Quartet performs Beethoven, Haydn, and Leon Kirchner, 8 p.m., UMUC Conference Center Auditorium. Pre-concert discussion, 6:30 p.m. Admission is \$17 standard, \$15.30 faculty and staff, \$14.50 seniors and \$7 students. Call 403-4240 for info.\*

## 19 MONDAY

**Curriculum Transformation Project Panel Discussion:** "Visions and Revisions," panel and open discussion with faculty participants from the 1992 summer institute, "Thinking About Women, Race, and Gender," Erve Chambers, Regina Igel, Charles Stangor, Shelly Wong, noon-2 p.m., 2127 Tydings. Call 5-6882 for info.

**Dingman Center for Entrepreneurship Workshop:** "Incentives: Compensation and Other Strategies for Emerging Growth Companies," 1-5 p.m., Annapolis Holiday Inn. \$30 for faculty, staff, and students. Call 410 455-2336 for registration and info.\*

**President's Commission on Women's Affairs Lecture:** "The Problem of Women in Science: Why Is it so Hard to Convince People?" Shelia Tobias, 1202 Engineering. Call 5-5803 for info.

**Campus Senate Special Meeting,** agenda includes revisions to the Code of Academic Integrity and policy on campus housing for undergraduate students, 3:30-6:30 p.m., 0126 Reckord Armory. Call 5-5805 for info.

**Entomology Colloquium:** "Interactions of Host Plant Chemistry, Caterpillars and Insect Predators," Nancy Stamp, SUNY Binghamton, 4 p.m., 0200 Symons. Call 5-3911 for info.

**Contemporary Spanish Cinema:** *El Sur*, (Victor Erice, 1983), 4 p.m., Language House. Sponsored by Maryland Humanities Council. Call 5-6441 for info.

## Drug Prevention Curriculum Infusion Grants

The Caring Coalition is accepting faculty proposals for integrating alcohol and other drug prevention information into existing curricula. The group will award top applicants with Curriculum Infusion Grants of \$500 to \$2000 and strongly consider plans involving active learning processes. Applications are due April 23. For more information, call 314-8123.



The Orion String Quartet performs on April 17 at 8 p.m.

**Computer Science Colloquium:** "Structural Complexity Theory: A Look at Some Historical Roots," Paul Young, U. of Washington, 4 p.m., 0111 Classroom Building (106). Call 5-2661 for info.

**Horticulture Colloquium:** "Graduate Student Presentation," 4 p.m., 0128 Holzapel. Call 5-4374 for info.

**Space Science Seminar:** "The Impact of Monte-Carlo Simulations on Charged Particle Transport Theory," James Earl, 4:30 p.m., 1113 Computer/Space Sciences. Call 5-7339 for info.

**American Heart Association CPR Course,** for adult, child, and infant skills, April 19 and 26, 6-9:30 p.m. Registration required, \$20 fee. Also offered April 20 and 27; April 22 and 29. Call 4-8132 for info.\*

## 20 TUESDAY

**Ecology and Evolutionary Biology Seminar:** "Comparative Studies of Bowerbird Display Evolution," Gerald Borgia, noon, 1208 Zoo/Psych. Call 5-6949 for info.

**International Center For Sustainable Agriculture and Human Resources Development Lecture:** "Targeting Women in Extension," William Zijp, World Bank, noon-1 p.m., 0115 Symons. Co-sponsored by the Office for International Programs. Call 5-1253 for info.

**Committee on History and Philosophy of Science Lecture:** "Exploratory Data Analysis, 1971-1977," John Tukey, Princeton, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

**Maryland Historic Preservation Lecture:** "The Pioneer Generation of Architectural Historians and Their Role in Preservation," Charles B. Hosmer, Principia College, 7:30 p.m., Architecture Auditorium. Call 5-1354 for info.

**Maryland Opera Studio,** An Evening of Excerpts (first year students), 8 p.m., Tawes Recital Hall. Call 5-5546 for info.

**Spring Dance Concert,** 8-10 p.m., Dorothy Madden Studio/Theater. Tickets are \$8 general, \$5 students and seniors. Call 5-3180 for info.\*

## 21 WEDNESDAY

**Counseling Center Research and Development Meeting:** "Overview of Program Evaluation," William Schafer, noon-1 p.m., 0106 Shoemaker. Call 4-7691 for info.

**Molecular and Cell Biology Seminar:** "Molecular Basis of Cystic Fibrosis: Implications and Approaches Toward Developing a Therapeutic," Seng Cheng, Genzyme Corporation, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

**Information Policy in the Electronic Age Seminar:** "Frustrations of Scholarly Research in Recent American Documentation," Anna Kasten Nelson American U., 4 p.m., 0109 Hornbake. Call 5-2033 for info.

**Astronomy Colloquium:** "Gravitational Lenses, Time Delays and Hubble's Constant," Jacqueline Hewitt, MIT, 4 p.m., 1113 Computer/Space Sciences. Call 5-3001 for info.

**Committee on History and Philosophy of Science Lecture:** "Exploratory Data Analysis, 1991-1995," John Tukey, Princeton, 4:15-6 p.m., 1407 Chemistry. Call 5-5691 for info.

**Maryland Opera Studio,** An Evening of Excerpts, Act I *The Magic Flute*, Act II *The Marriage of Figaro*, 8 p.m., Tawes Recital Hall. Call 5-5546 for info.

**Spring Dance Concert,** 8-10 p.m., Dorothy Madden Studio/Theater. Tickets are \$8 general, \$5 students and seniors. Call 5-3180 for info.\*

## Calendar Guidelines

The *OUTLOOK* Calendar publishes university-sponsored events, subject to space availability. Preference is given to free, on-campus events. The deadline is two weeks before the Monday of the week in which the event occurs. Mail listings with date, time, title of event, speaker, sponsoring organization, location, fee (if any), and number to call for information to: Calendar Editor, 2101 Turner Lab, or fax to 314-9344. Calendar phone numbers listed as 4-xxxx or 5-xxxx stand for the prefix 314- or 405- respectively. Events are free and open to the public unless noted by an asterisk (\*). For more information, call 405-7339.

