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Outlook

The University of Maryland at College Park Faculty and Staff Weekly Newspaper • Volume 8 Number 25 • April 25, 1994

Changing the Shape of Agriculture

Genetics and High Technology Alter Farming Methods

Farms and America are historically tied—endless green fields nourished by rain and warmed by sun, barns with cows named Bossy. But technological breakthroughs have blown agrarian myths away.

Agricultural engineers are not just about tractors anymore.

Biological resources engineering is an evolutionary leap from traditional agricultural engineering.

"Although we have always applied our skills to living systems, we've increased the amount of biology in the curriculum," says William Magette, associate professor of agriculture. "We are focusing engineering skills on biological systems. We are working with human health and safety, environment and food production. And finding ways to conduct our human activities in concert with nature."

In the past, agricultural engineers have primarily designed farm machines and housing for animals. Technological changes in the past decade led the Department of Agricultural Engineering to question the relevance of their traditional program. After a critical study, in the fall of 1993, the university revised its agricultural engineering curriculum.

In December, the new Agricultural Engineering Building was completed. It offers 44,000 square feet of usable space for laboratories, classrooms and offices for faculty, staff and graduate student offices. "The labs are the newest and most up to date of their

type in the country," Magette says.

In addition to biological resources engineering, other disciplines include natural resources management, agricultural engineering and general agricultural sciences. The 14 laboratories give students hands-on experience on topics ranging from determining the force necessary to bruise apples to analyzing the nutrient content of fresh water and polluted water.

The new biological resources engineering program prepares students for engineering careers in growth areas such as the environmental protection field, the health and medical field, aquaculture and other "safe and sustainable" food production industries.

For example, engineers design protective masks to inhibit pesticide inhalation. They examine how these masks affect respiration, endurance and job performance in farm workers, tailoring the design to help them work longer and easier.

From satellite imagery, researchers can help farmers control the amount of pollutants and nutrients that escape from their fields into the Chesapeake Bay. "By looking at vegetation we can tell how well it filters. Certain trees do a better job of removing nitrogen from ground water," Magette says.

"We also study how wetlands respond to inputs of pollutants. We are learning how we can better make man-made wetlands, by using clay in the soil and controlling the slope of the land, as



Cathryn Dooley, faculty research assistant, coaches William Magette, associate professor of agriculture, as he demonstrates the pulmonary lab system. Patients wear a nose clip while breathing through the mouthpiece to measure lung volume.

well as developing management guidance for natural wetlands."

Other issues examined have a high degree of practical significance. Engineers are looking at the physical properties of oysters to determine hinge location and strengths of adductor muscles so they can design automated oyster shucking machines. Another area of research is learning what interactions between human activity and natural soil, climatic and topographic features influence pollution in the Chesapeake Bay. This knowledge is needed to develop new environmental protection techniques for the nation's largest estuary.

Also being looked at is how construction materials, and management practices influence the growth of salmonella bacteria in poultry production facilities.

But of all the problems biological engineers examine there is one they cannot change. The skies.

"The problem with farming is that these people are trying to make a living with no control over the weather," Magette says. "It means we have to work extra hard to control the things that we can control."

Agricultural Engineering Building Dedicated on April 30

The university dedicates its new \$15 million Agricultural Engineering Building at 11 a.m. on Saturday, April 30. The 44,000 square-foot facility, with its classrooms, conference facilities, offices and 14 state-of-the-art laboratories, serves teaching, research, extension education and service needs in four academic programs: biological resources engineering, natural resources management, agricultural engineering and general agricultural sciences.

Among the highlights of the building:

- A soil and water engineering laboratory to study water movement through soil and the impact of sediment, nutrients and pesticides on water quality.

The lab features a 30-foot-long tilting hydraulic flume, one of the largest on the East Coast, for making precise engineering measurements related to water flow in open channels. The lab also houses a self-contained hydrology system that can generate artificial rainfall to study the movements of pollutants over the landscape through soil;

- Three aquaculture laboratories to study aquatic plant and animal production and how it is affected by various parameters. The university pioneered the study of aquacultural engineering over 25 years ago and remains a leader in the field;

- A human factors engineering laboratory to study human responses to

environmental inputs. Research includes how respiration, endurance, mobility and visibility of humans are affected by protective face masks, and the development of non-invasive methods for measuring respiratory capacity;

- An environment and structures laboratory consisting of four walk-in, controlled environmental chambers for studying environmental effects on biological systems. These feature temperature, humidity and lighting control over wide ranges, capabilities unmatched by any similar chambers in the U.S.;

- Biochemical and biomaterials laboratories to help determine agricultural effects on water quality, how ground water quality influences surface water

quality, and how to improve wetland performance;

- A model analysis laboratory featuring the latest in information processing and computing equipment and several receivers for tracking Defense Department global positioning satellites. Research focuses on issues of importance in the Chesapeake Bay restoration program such as developing mathematical pollution prediction models and interfacing them to geographic information systems, which make use of LANDSAT and SPOT satellites.

The formal dedication ceremony begins at 11 a.m. An 11:45 a.m. ribbon cutting will be followed by a reception and guided tours of the facility.



Minority Groups Stage Rally against Racism

A coalition of minority groups staged a rally on April 20 in front of the Stamp Student Union to demand immediate action in response to what the groups perceive as campus institutional racism. The rally, sponsored by the campus Black Faculty and Staff Association (BFSA), featured students, staff and faculty representing African Americans, Hispanics, Asians and Native Americans calling for improvement in the campus grievance procedure, revampment of the racial equity system and improvement in the racial climate on campus.

According to Roberta Coates, president of the BFSA, the association is calling for more African Americans in high level decision making positions including vice presidents, deans, administrative directors and department chairpersons.

Many of the speakers stressed the need for all students, faculty and staff to work together to make changes.

Some 150 observers, mostly students, attended the rally.

Letters to the Editor

Dear Editor:

I was distressed to see the misleading title of an article in the April 11 issue of *Outlook*. "Domestic Partners Seek to End Discrimination" gave the impression that the campus was illegally discriminating against unwed couples in the awarding of benefits. Such is not the case. Neither is it true that the Human Relations Code demands that such benefits be extended.

Section D of the Code states that discrimination is not prohibited where based on a bona fide qualification or in support of the law. Being legally married has consistently been determined to be a bona fide qualification for extending benefits when tested in the courts. Only legally married couples are recognized by the state. Maryland does not even recognize common law marriages as do some other states, such as West Virginia.

Since all unmarried couples do not qualify for benefits and all married couples do, there is no discrimination. To say otherwise is misleading and discredits the argument.

The Human Relations Committee, who has proposed this resolution, does not hold exclusive rights to the correct interpretation of this issue. *Outlook* should not present the issue as if it has only one side. There are many serious issues to consider; defining what a "domestic partner" is in a legal sense, determining if extending benefits might limit the benefits for current employees, the cost of the proposal if fully implemented, how would our funding agencies view such a proposal, etc.

An example of the problem is how to define "domestic partner." According to the Human Relations Committee criteria cited in the article, any couple living together for six

months and sharing the lease can qualify for benefits if they fill out a self-serving and unverifiable affidavit. Graduate Assistants could rightfully claim that their live-in roommate is entitled to tuition remission and health care after one semester. I don't believe most people would equate a six-month relationship to the legal and personal commitment of marriage. Nor do I think that most people think the state should pay their benefits if they are unwilling to make a commitment.

I think most people do think that monogamous same sex couples who are committed to each other deserve recognition. The problem is how to recognize this without placing the university in the position of discriminating against unmarried heterosexual couples. Until these issues, (along with the cost), are resolved it is irresponsible for the College Park Senate to endorse extending benefits to "domestic partners."

On a personal level I am opposed to the concept of "domestic partners" on philosophical grounds. I view the concept of "domestic partners," especially as presented here in applying to heterosexual couples, to be anti-family, anti-children and anti-women. Instead of encouraging permanent bonds through marriage, it provides one more reason not to make a personal legal commitment. If put in place, it would leave one party's well being completely at the whim of the other person.

Experience would indicate that women would be the ones to suffer the most in this arrangement. Unwanted children could also be abandoned without any recourse if a domestic partner left. Illegitimacy is a problem that has overwhelmed many American communities.

At this time, when so much antisocial behavior can be traced to the breakup of the family, the university

End quote

Is political correctness a passing fad or does it represent a fundamental long-term change in our society and culture?



"I certainly hope the latter. Political correctness as a name may change and the issues encompassed by it may vary, but the thoughtfulness to opinions and feelings of others, which it represents, has become part of our way of thinking. Feminist, racial, civil rights and environmental issues have been affected already. I hope the influence of politically correct language continues to change fundamentally our society."

—Sarah Miller, curator of slides, Art History & Archaeology

"Yes, I think it represents a long-term change in our society. I feel that it has to start out as a mindset, but as time passes, more and more people will begin to think about it and start to use terms that are politically, socially and culturally correct."

—Robin Evans, office secretary, English Department



"Political correctness is likely here to stay—because it has been with us all along, in one form or another. When I was beginning college, it was politically incorrect to oppose the military draft. In Ben Jonson's England, it was often politically incorrect to be a Catholic. Certainly in Spain in 1492 it was politically incorrect to be a Jew. The whole notion of political correctness often lies in the eye of the beholder. I agree with E.M. Forster, who, in his essay, 'What I Believe,' held that he put his faith primarily in 'tolerance,' and mutual respect. The current movement toward political correctness no doubt grew out of a perceived lack of respect for various groups. In the end, as what is 'allowed' and 'not allowed' changes, one can only hope that we are left with a raised consciousness, and with a renewed commitment to respect each other."

—Jack Greer, assistant director, Sea Grant College

"Sensitivity to the impact of language and the different assumptions of different kinds of groups is a very important issue. Labeling it as political correctness punishes the basic message, which is that we are a diverse society and respect for differences is very important."

—Ellin Scholnick, professor of psychology



and the senate should be working on policies that encourage people to make lasting, legal family commitments, not to provide another way not to commit.

I urge the community at large to communicate their views on extending benefits to "domestic partners" to the Campus Senate Human Relations Committee, c/o Campus Senate Office, Marie Mount Hall or email the Senate secretary at ks76@umail. A broad range of opinions need to be heard regarding this issue that has both budgetary and cultural implications.

—A. LAWRENCE LAUER
ADMINISTRATIVE STAFF SENATOR
CHAIR, STAFF AFFAIRS COMMITTEE

Dear Editor:

Regarding "Endquote" and writer [Stephen] Sobek's article on James McGregor Burns and the use of "Whitewater Scandal": wouldn't "Whitewater Controversy" be more accurate? Doesn't it seem to favor accuracy to hold off until a scandal is uncovered?

I could write constantly to everyone all over the place (beginning with National Public Radio) regarding their use of scandal, but the one small step of my 1000 mile journey begins with you.

—DAVID FREIVOGEL
MUSICIAN ASSOCIATE
DANCE DEPARTMENT

Next Issue: See the final plans for the revised North Gate entrance to be completed this summer.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Outlook

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

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Environmental Technology: The Great Industry of the Future

United States Races to Capture Industrial Dominance

Concern for the environment is growing all over the world. Countries are looking for alternatives to goods that waste energy, everything from automobiles to home appliances.

Not only do they want them to be better, faster and cheaper, but they also want them to be cleaner.

"The United States is beginning to lag behind its economic rivals," says Alan Miller, the director of the Center for Global Change, in the introduction to his new book, *Green Gold: The Race to Capture Industrial Dominance in the 21st Century*.

The book stems from experiences that Miller and co-author Curtis Moore have had in working with environmental policy—Miller as a lawyer and a researcher and Moore as a journalist.

Green Gold makes a case that environmental technology will be the great industry of the future.

Most of the book was completed before Clinton was elected and addressed a different political climate

than the one created by the new administration. "Maybe it can help [Clinton], instead of just criticizing his predecessor," Miller says.

Before Clinton took office, Miller headed his transition team for the Environmental Protection Agency.

While only there for a month, he saw first-hand the problems that new ideas face.

Trying to play catch-up with day-to-day business makes it almost impossible to be creative with new policies.

"It becomes clear that you have to decide on a few things and stick with them. If you try to do everything, you'll do nothing," Miller says.

While Miller believes *Green Gold*

sets an agenda that is consistent with the Clinton administration's, he says that he is concerned no concrete policies have emerged.

"Woodrow Wilson said, 'If you want to make people angry, just try to change things.' I think they're only will-

ing to do what is popular," Miller says.

Clinton will soon introduce an initiative for the environment, Miller says, but he hasn't been able to find out from the White House what issues it will address. "It's chaos there," he says.

The trick is to look at the environment as business, and Miller says that before we get to the next century, it will be big business.

Green Gold uses countries such as Japan and Germany as models for American business. Miller says cooperation between government and business there puts them ahead of us in environmental technology.

In both of those countries, they give incentives as well as regulate business; what Miller calls the "carrot" and the "stick."

In the 1970s, Congress adopted laws that set efficiency standards for home appliances (Miller says they use one quarter of the energy in the United States). Government and business clashed. "We had a big stick, but there was no carrot. The industry had nothing to gain," Miller says.

Last year, a number of utility companies trying to save themselves from building new power plants put up \$30 million as an incentive for refrigerator manufacturers to make a more efficient refrigerator. Set up like a contest, the company that made and actually sold the most efficient model received the money.



Alan Miller

"We've been fighting these companies with lawsuits for years," Miller says. Now, with just \$30 million, the companies have finally done what the government wanted them to do all along.

The trick is to look at the environment as business, and Miller says that before we get to the next century, it will be big business.

"The state gets delegations every couple of months from third world countries that are asking what we can sell them to clean up their environment," Miller says. "Other states are way ahead of Maryland."

Miller says that the university has an opportunity to be a national leader in environmental technology, provided it can overcome certain handicaps.

"Environmental technology is very inter-disciplinary," Miller says. "Our resources are scattered all over campus. It's going to take some fairly high-up leadership here to overcome that."

—STEPHEN SOBEK

State's Rising Stars Offer Solutions to Problems in the Schools

While administrators across the country struggle to find ways to reduce violence in schools, the university wants to help students take the lead in finding solutions.

As part of the annual Rising Stars Student Leadership Conference, high school student leaders from across the state will learn to develop new programs to fight violence on their campuses. The conference is planned for May 4 at the Stamp Student Union.

Following a morning of leadership training sessions, small groups of students will attack assigned problems like vandalism, gang affiliations, and deadly weapons in the schools. By the end of the day, they will develop and assess specific strategies to combat these problems.

College Park's Center for Political Leadership and Participation, sponsor of the conference, will later fund the start-up of a select group of violence prevention proposals received from schools that participated in the one-day session.

"Students are very concerned about the level of violence and drug activity they see in their schools," said Georgia Sorenson, the center's director. "We want to help them develop the leadership skills needed to become change agents and to back it up with some financial help to get them started."

Encouragement will also come from noted rap artists Kid 'n' Play who will be on hand to present awards to winners of the conference essay contest. The rappers are expected to speak in their unique style to the issue of youth leadership.

The students will also hear from Maryland Delegate Salima Siler Marriott, keynote speaker for the event.

While the issues of crime and violence top the agendas of varied groups across the country, Effie Lewis, conference director, said this effort focuses on helping youth take an active role in shaping the world they will inherit.

"The students will be discussing real, viable solutions to the violence in their schools," she said, "solutions that they as students can implement now."

Bosnian Ambassador To Address Conditions in Bosnia-Herzegovina

His Excellency Sven Alkalaj, ambassador of Bosnia-Herzegovina, will present a lecture describing the current situation in that country and possible solutions to the conflict on Tuesday, April 26, at 4 p.m., in room 0204 of the Architecture Building.

The lecture signals the inauguration of the International House's Ambassador Lecture Series, designed to broaden the understanding of students, faculty, staff and the public to events around the world by bringing ambassadors to the College Park campus on a monthly basis.

Sven Alkalaj has been appointed by the Republic of Bosnia and Herzegovina to open its embassy to the United

States. He temporarily holds the position of Charge d'Affaires.

Before devoting himself to a political career, Alkalaj was a prominent Bosnian businessman. He held many important senior positions in "Energoinvest-Sarajevo," the largest manufacturing and engineering company in Bosnia and Herzegovina, and the leading export company in former Yugoslavia. Alkalaj was his country's representative in international conferences in Southeast Asia and in various international projects.

Born in Sarajevo in 1948, he earned his master's degree in international economics at the University of Sarajevo.

MBAs Form Long-Distance Teams Using Desktop Videoconferencing

Like spring, advanced telecommunications technologies are "bustin' out all over," and trying to keep abreast of new software and hardware developments can be a full-time job.

One of the hottest innovations in the field is the Maryland-Indiana Project at the College of Business and Management. MBA students in Assistant Professor Bradley Wheeler's class work via videoconferencing with MBA students at the University of Indiana in Bloomington.

The MBAs from both schools are divided into 20 teams of four students each (two members from Maryland, two from Indiana). Each team works at a 486-based personal computer that is enhanced with an AT&T Telemedia Connection, software, and a device that looks like a small camera and sits atop the computer monitor. It lets teammates in Maryland and Indiana view and talk with one another as they collaborate on case studies.

For example, four-fifths of a team's computer screen might show a spread

sheet containing data relevant to the case on which the team is working. The same spread sheet will appear on the students' screens in Maryland and Indiana, while simultaneously the faces of teammates at both universities appear in a box at the top of the screen.

"As this project demonstrates, the technology exists for giving our students access to peers, faculty and ideas at other universities," says Wheeler. "Not just business students, but those in every subject area. All that is necessary is for us to devise other creative ways of using the technology—and, of course, the funding for purchasing it."

Wheeler and Maryam Alavi, professor in the college, designed and implemented the Maryland-Indiana Project and helped develop the technical infrastructure that makes collaboration among the teams possible. Both are information systems faculty and both believe that advanced telecommunications technologies are excellent classroom tools that can be applied broadly.

Calendar Apr. 25 - May 4

Arts

Maryland Opera Week: Mon., Apr. 25, through Sat., Apr. 30. 5-5545.

Maryland Opera Studio: Mon., Apr. 25, 7:30 p.m., and Thu., Apr. 28, 5 p.m., Excerpts from Barber's *A Hand of Bridge*, Verdi's *Falstaff* and Mozart's *Don Giovanni*, Act I, Tawes Recital Hall. 5-2201.

University of the District of Columbia Big Band Invitational Showcase/Jazz Ensemble Concert: Mon., Apr. 25, Chris Vadala-director, 8 p.m., University of the District of Columbia. (202) 282-2120.

Maryland Opera Studio: Tue., Apr. 26, 12:30 p.m., and Fri., Apr. 29, 7:30 p.m., Excerpts from Menotti's *The Saint of Bleeker Street*, Strauss's *Der Rosenkavalier* and Bucci's *Sweet Betsy from Pike*, Tawes Recital Hall. 5-2201.

Maryland Opera Studio: Tue., Apr. 26, *An Evening of Duets and Theater Scenes*, 7:30 p.m., Tawes Recital Hall. 5-2201.

Maryland Opera Studio: Wed., Apr. 27, 5 p.m., and Sat., Apr. 30, 7:30 p.m., *An Evening of French Opera:* Massenet's *Werther*, Offenbach's *The Tales of Hoffman* and Poulenc's *The Dialogues of the Carmelites*, Tawes Recital Hall. 5-2201.

Masters of Fine Arts Thesis Exhibition Opening: Wed., Apr. 27, Fall 1993 Master of Fine Arts Graduates and Spring 1994 MFA Candidates, 5:30-7:30 p.m., The Art Gallery, Art/Sociology. 5-2763.

Jazz Piano/Vocal Workshop Concert: Wed., Apr. 27, Ron Elliston and Ronnie Wells, 7:30 p.m., Tawes Recital Hall. 5-5545.

Maryland Opera Studio: Thu., Apr. 28, *An Afternoon of Duets and Theater Scenes*, 12:30 p.m., Tawes Recital Hall. 5-2201.

The New Maryland String Quartet Free Concert: Thu., Apr. 28, Brahms' *String Quartet in A Minor*, Opus 51, No. 2 and Haydn's *Sunrise Quartet in B-Flat Major*, Opus 76, No. 4; R. Francois and M. Ramirez, violins, J. Esmilla, viola, S. Swift, cello, 3:30 p.m., 1410 Physics. 5-5548.

University Theatre: *The Colored Museum*, Thu., Apr. 28, through Sat., Apr. 30, 8 p.m., Tawes Theatre, \$10, students and seniors \$7. (Apr. 30 is a sign interpretation performance.) Listening system available. 5-2201.*

Dance Department Semi-Formal Showing: Fri., Apr. 29, 7:30 p.m., Dorothy Madden Theater, Dance Building. 5-3180.

The Concert Society at Maryland Chamber Music Series: Sat., Apr. 30, Takacs Quartet, 8 p.m., UMUC Center of Adult Education Auditorium, \$18, students \$8. 403-4240.*



The Takacs String Quartet performs a rarely heard work by Franz Schubert on Saturday, April 30, at 8 p.m., at the UMUC Adult Education Center.

University of Maryland Jazz Ensemble Spring Concert and Jazz Lab: Mon., May 2, Chris Vadala, director, 8 p.m., 2203 Art/Sociology. 5-5519.

Literary Reading: Tue., May 3, Winners of the Academy of Poets Prize and the Katherine Anne Porter Fiction Prize, 3:30 p.m., Maryland Room, Marie Mount. 5-3820.

University of Maryland Symphony Orchestra: Wed., May 4, Beethoven's *The Creatures of Prometheus* and Brahms' *Haydn Variations*, 8 p.m., Tawes Recital Hall. 5-1150.

Lectures

Horticulture Colloquium Series: Mon., Apr. 25, "Active Osmotic Adjustment: Effect of Water Stress on Sorbitol and Other Carbohydrates in Apple Leaves, Stems, and Roots," Zhongchun Wang, 4 p.m., 0128 Holzapfel. 5-4355.

Entomology Colloquium: Mon., Apr. 25, "Blood Feeding Behavior of *Aedes aegypti* and Dengue Transmission in Thailand and Puerto Rico," Thomas W. Scott, 4 p.m., 0200 Symons. 5-3911.

Urban Studies and Planning Program Lecture: Mon., Apr. 25, "Designing a University Showcase: Process and Politics: The Maryland Center for the Performing Arts," 7-8:30 p.m., 1179 Lefrak. 5-6790.

Zoology Lecture: Tue., Apr. 26, "Using Geographic Variation in DNA Sequence Polymorphisms to Detect Natural Selection," John McDonald, University of Delaware, noon, 1208 Zoology/Psychology. 5-6884.

Physics Colloquium: Tue., Apr. 26, Frank Wilczek, Institute for Advanced Study, Princeton, 4 p.m., 1410 Physics. 5-5949.

University Theatre Lecture: Wed., Apr. 27, *Sounding the Humanities*, discussion of *The Colored Museum*, University Theatre, noon-12:50 p.m., 1102 Francis Scott Key. 5-2201.

Planning for the Urban Community Brownbag Lecture Series: Wed., Apr. 27, "Organizing and Winning on Community Issues," Roxie Bratton, Citizens Planning and Housing Association, noon-1:15 p.m., 1213 Architecture. 5-6798.

Distinguished Scholar-Teacher Lecture: Wed., Apr. 27, "Analyzing Software for Critical Systems," John Gannon, 3:30 p.m., 2203 Art/Sociology. 5-9363.

Astronomy Colloquium: Wed., Apr. 27, "Cosmic Bullets, Craters, and Catastrophes," Eugene Shoemaker, U.S. Geological Survey, 4 p.m., 1113 Computer and Space Sciences. 5-1502.

The Sixth Bebe Koch Petrou Lecture: Thu., Apr. 28, "Culture, Politics, and the Unification of Capital," Paul Smith, Carnegie Mellon University,

3:30 p.m., 1120 South Campus Surge. Related colloquium Fri., Apr. 29, noon, 3105 South Campus Surge. 5-3809.

Communications and Community Lecture: Thu., Apr. 28, Trudy Huskamp Peterson, Acting Archivist of United States, 4 p.m., National Archives. 5-4626.

Committee on History and Philosophy of Science Colloquium: Thu., Apr. 28, "Telecommunications and International Relations," Daniel Headrick, Roosevelt University, 4 p.m., 1117 Francis Scott Key. 5-5691.

Subaltern Studies in the Americas Lecture Series: Thu., Apr. 28, "Post-Literature Subalternity and the Humanities," John Beverley, University of Pittsburgh, 5 p.m., St. Mary's. 5-6441.

University Theatre Lecture: Thu., Apr. 28, Meet the Artists Discussion of *The Colored Museum*, 7-7:45 p.m., Experimental Theatre (Room 0241), Tawes. 5-2201.

Zoology Lecture: Fri., Apr. 29, "The Hazard of Retina Light Damage and the Photoprotective Systems of the Eye," Michael Ostrovsky, Russian Academy of Science, noon, 1208 Zoology/ Psychology. 5-6887.

Department of Spanish and Portuguese Lecture: Fri., Apr. 29, "La Aventura de Escribir," Rosa Montero, 2 p.m., St. Mary's Hall Multipurpose Room. 5-6455.

Entomology Colloquium: Mon., May 2, "Spider-Planthopper Population Dynamics: Stabilizing and Destabilizing Factors," Hartmut Doebel, 4 p.m., 0200 Symons. 5-3911.

Horticulture Colloquium Series: Mon., May 2, "Effects of Hypoxia on Senescence of Carnation Flowers," Xiuhua Chen, 4 p.m., 0128 Holzapfel. 5-4355.

Zoology Lecture: Tue., May 3, "Pre- and Post-Copulatory Mate Guarding in the Blue Crab, *Callinectes sapidus*," Paul Jivoff, noon, 1208 Zoology/ Psychology. 5-6891.

Physics Colloquium: Tue., May 3, Andy Zangwill, Georgia Institute of Technology, 4 p.m., 1410 Physics. 5-5949.

Astronomy Colloquium: Wed., May 4, "Dark Matter in the Galaxy," Ira Wasserman, Cornell University, 4 p.m., 1113 Computer and Space Sciences. 5-1502.

Meetings

President's Commission on Women's Affairs Meeting: Mon., Apr. 25, Daniel Fallon, noon-2 p.m., Maryland Room, Marie Mount. 5-5806.

Counseling Center Research and Development Meeting: Wed., Apr. 27, "Impact of National Health Care on the Counseling Profession," Casey Hughes, noon-1 p.m., Shoemaker Testing Room. 4-7690.

Women's Studies Hosts Alumni Weekend

Brenda Brown Lipitz was confident, all right.

It isn't everybody who approaches a university president in his own home and, failing to elicit his go-ahead on a sketchily-conceived idea, tugs on his suitsleeve until he gives in.

"Brit! Brit!" she was heard to implore. "We've got to do this! We've got to do this!"

True, she'd been a dinner guest that night two springs ago and true, she'd met President Kirwan several times before.

Still, what Brenda Brown Lipitz, class of '65, attempted was gloriously unorthodox.

Which is probably why Kirwan still remembers it. And why this weekend the university will be holding its first-ever Women's Studies Alumni Weekend, beginning Friday afternoon, April 29, and continuing through Sunday morning.

Lipitz had recently returned from a similar weekend at Duke University and, filled with good feelings about her experience and about her university in general, thought there wasn't any reason Maryland couldn't try something just like it.

Small wonder that women's studies,

having for years struggled with funding, and having most recently been turned down by the Maryland Higher Education Committee for a proposal that would allow it to confer degrees, sees Lipitz as its Joan of Arc.

Because of this weekend and Lipitz, there is reason to believe good things will come.

Laura Nichols, assistant director of women's studies, describes the weekend as "an opportunity for women who didn't have the women's studies experience while they were here—either because there wasn't a concentration then, or because they weren't particularly caught up in the issues."

Handsome pink and black brochures were printed and sent to thousands of alums in the mid-Atlantic region. The weekend consists largely of workshops ranging from the exploration of sexual harassment in the workplace, to feminism and international politics to African American women

and the romance plot. Guest speakers include Lee Knefelkamp, professor of higher education at Teacher's College, Columbia University, Elizabeth Minnich, author of *Transforming Knowledge* and Lucille Clifton, a former poet laureate of Maryland.

But it's the two hours set aside for "Renewal, Exploration and Networking" that Nichols says the weekend was designed for.

"We're taking, with this weekend, the next step in our own growth. We're still learning."

—Laura Nichols

principally, to the alumni. As for the women's studies program: "We're taking, with this weekend, the next step in our own growth," says Nichols. "We're still learning."

In an era of academic Darwinism, it's not enough to sit back, as Lipitz has

learned. What's required is individual initiative, along with a fair amount of cajoling, demanding, pestering.

Or tugging.

Unorthodox as it may be, it worked. And with their sights set on a research center and the creation of a Ph.D., the supporters of the women's studies program are hoping it will work again.

—TODD KLIMAN

NOTE: Women faculty, staff and students are encouraged to attend all or part of the weekend, and bring a friend, family member, or colleague. It promises to be a wonderful combination of intellectual, psychological and creative exploration. Please call Nancy Hiles at 405-4631 for more information.



**DIVERSITY
AT UMCP
MOVING
TOWARD
COMMUNITY**

Women's Studies Weekend

Brunch/Conference: Sun., May 1, "Women: Power through Connection, Support, Relationships," 9:30 a.m., Pres. William E. Kirwan's home. (Rain location: Chesapeake and Fort McHenry Rooms in the University College Conference Center) 5-4637.

Counseling Center Research and Development Meeting: Wed., May 4, "Content Collaboration for Special Needs Students," Victor Nolet, noon-1 p.m., Shoemaker Testing Room. 4-7690.

Miscellaneous

National Association of Environmental Professionals Spring Forum: Wed., Apr. 27, "Environmental Integrity and Economic Growth: Striking a Balance," panel discussion with representatives from state and local government and the development community, 4:30 p.m., Van Munching Hall. 585-0904.

Women Administrators from the University of Maryland System Spring 1994 Breakfast: Thu., Apr. 28, 8-10 a.m., \$7.50 reservation fee by Tue., Apr. 26, Rossborough Inn. Following the breakfast, senior theatre major Anita Dashiell will do a dramatic interpretation. 5-3871.

Women's Studies Reception: Fri., Apr. 29, 5:30 p.m., Chesapeake and Ft. McHenry Rooms, UMUC Conference Center. 5-4630.

Concert Society Takacs Quartet Performance Dinner and Reception: Sat., Apr. 30, 5:30 p.m. dinner, 10 p.m. reception, Pres. William E. Kirwan's home. 403-4238.

Diversity Film Series: Sun., May 1, through Sat., May 7, *Cowgirls*, every hour on the hour. Recognizes the con-

tributions of women to ranch life in the American West. Profiles and talks with 60-year-old Nevada rancher Norma Hapgood, 34-year-old amateur rodeo rider Melody Harding, and six- and nine-year-old cowgirls Nondi and Cricket Long; 30 minutes. Nonprint Media, 4th floor, Hornbake. 5-9236.

Diversity Film Series: Sun., May 1, through Sat., May 7, *The Water Is So Clear*, every hour on the hour. Describes the plight of the Taos Indians and the threat to the land in the Blue Lake area of New Mexico which they consider sacred. Contrasts the Indians' attitudes about the land and its wildlife with those of the lumbering companies which want to harvest the forest; 32 minutes. Non-Print Media, 4th floor, Hornbake. 5-9236.

Seminars

China Regional Seminar: Mon., Apr. 25, "Recent Development of Taiwan-Mainland Relations," Hungdah Chiu, 4:30 p.m., Grand Ballroom Lounge, Stamp Student Union. 5-4312.

Space Science Seminar: Mon., Apr. 25, "Gamma Rays, Neutrons, and Millimeter Wave Emissions from Solar Flares," R. Ramaty, NASA Goddard Space Center, 4:30 p.m., 1113 Computer and Space Sciences. 5-6232.

Molecular and Cell Biology Graduate Program Seminar: Wed., Apr. 27, "Differential Expression of Plasma Membrane Proton Pumps," Michael Sussman, University of Wisconsin, 12:05 p.m., 1208 Zoology/Psychology. 5-6991.

Meteorology Seminar: Thu., Apr. 28, "Barotropic Dynamics of the Systematic Errors in the NMC-Medium Range Forecast Model," Ming Cai, University of Colorado, Boulder, 3:30

p.m., 2324 Computer and Space Sciences. 5-5392.

UMACS Seminar on Algorithms: Thu., Apr. 28, 3:30-4:30 p.m., 2460 A.V. Williams. 5-6722.

ENRE 607 Reliability Seminar: Thu., Apr. 28, "Practical Models for Standby Redundancy," Raymond Sears, AT&T Bell Labs, 5:15-6:15 p.m., 1100 Instructional Television Facility. 5-3887.

President's Commission on Women's Affairs Dedication of Center for Young Children: Fri., Apr. 29, 10-11:30 a.m., Center for Young Children. 5-5806.

Geology Seminar: Fri., April 29, "Petrological Indicators of Ultra-High Pressures in the Lithosphere," Nick Sobolev, Novosibirsk Institute of Mineralogy, Russia, 11 a.m., 0103 Hornbake. 5-4089.

Mental Health Service Lunch 'N Learn Seminar: Fri., Apr. 29, "Rapid Cycling Bipolar Illness," Ellen Leibenluft, Clinical Psychobiology, N.I.M.H., 1-2 p.m., 3100 E University Health Center. 4-8106.

President's Commission on Women's Affairs Open House: Sat., Apr. 30, 10 a.m.-2 p.m., Center for Young Children. 5-5806.

Maryland Bar Association's People's Law School Seminar: Tue., May 3, 6-9 p.m., UMUC Conference Center, \$10. 1-800-492-1964.

Molecular and Cell Biology Graduate Program Seminar: Tue., May 4, "Targeted Inactivation of the Mouse Muc-1 Gene, a Gene Coding for a Carcinoma-Associated Mucin," Sandra Gendler, The Mayo Clinic, 12:05 p.m., 1208 Zoology-Psychology. 5-6991.

China Regional Seminar: Tue., May 4, "Key Political, Economic, and Social Issues in Mainland China Today," Nicholas Kristof, Johns Hopkins University, 4 p.m., Ft. McHenry Room, UMUC Center of Adult Education. 5-4312.

Sports

Baseball: Wed., Apr. 27, vs. William and Mary, 1 p.m., Shipley Field. 4-7122.

Baseball: Fri., Apr. 29, vs. Virginia, 3 p.m., Shipley Field. 4-7122.

Baseball: Sat., Apr. 30, vs. Virginia, 2 p.m., Shipley Field. 4-7122.

Baseball: Sun., May 1, vs. Virginia, 2 p.m., Shipley Field. 4-7122.

Baseball: Wed., May 4, vs. Towson State, 3 p.m., Shipley Field. 4-7122.

Workshops

Diversity Brown Bag Workshop: Wed., May 4, "Inclusive Communications," Judith Bair and Roland King, noon-1 p.m., 2118 Lee. 5-7764.

Calendar Guide

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 405-4628.

Listings highlighted in color have been designated as Diversity Year events by the Diversity Initiative Committee.

Here's To:

Ivo Daalder, assistant professor, School of Public Affairs, for being awarded a Pew Faculty Fellowship in International Affairs from the John F. Kennedy School of Government at Harvard University on the strength of the recommendation of his institutional sponsor, Michael Nacht, dean of the School of Public Affairs. He is one of 24 Fellows selected from a field of more than 200 for their academic accomplishment, dedication to teaching and leadership ability.

Allen Davis and Peggy Johnson, both assistant professors of civil engineering, for receiving the National Science Foundation's Young Investigator Awards. The awards are intended to encourage cooperation between industry and universities. Each of the investigators is provided with an annual base of funding and up to an additional \$37,500 each year for five years as matching funds.

David Fogle, professor of architecture, for being recognized by the Prince George's County Historical Society at its annual St. George's Day dinner for his significant leadership and contributions to the preservation of Prince George's County heritage.

George Gloeckler, professor of physics, for receiving funding from NASA for his "Solar Wind and Suprathermal Ion Composition" project. He also received funding from the Jet Propulsion Lab for his "International Solar Polar Mission" project, from Johns Hopkins for his "STICS Instrument for Epic Experiment ISTP Geotail Spacecraft" project and from Cal Tech/NASA for his "SWIMS for ACE Mission" project.

Hans Griem, professor in the Lab for Plasma Research, for receiving funding from the Department of Energy for a project entitled "Measurement of Impurity Ion Densities and Energies in the Divertor and Edge Regions of Alcator C-Mode Tokamak" and for his project entitled "Development of Density and Temperature Profile Diagnostics for ICF Targets."

Christopher Lobb, professor of physics, for being named an outstanding teacher by the Center for Teaching Excellence.

Rabindra Mohapatra, professor of physics, for delivering an invited talk on "Neutrino Mass and Grand Unification" at the Conference on the Neutrino Telescope, held in Venice, Italy, in February.

David Montgomery, a graduate student in computer science, for being awarded a prestigious National Science Foundation Pre-Doctoral Fellowship for graduate study in computer science. The fellowship will provide funding for three years of graduate study.

Michael Ostrovsky, a visiting professor of zoology, who was recently elected Academician of the Russian Academy of Sciences. This title is equivalent to being elected to the United States National Academy of Sciences.

Edward Ott, professor of electrical engineering and physics, for having two articles, one in the March issue of *Scientific American* and the other in March issue of *Discover Magazine*, devoted to his work on chaos (with former graduate student John Sommerer). They have found that there are common systems for which arbitrarily small changes in initial conditions typically can completely change the time-asymptotic qualitative and statistical properties of orbits.

Robert Park, professor of physics, for having his editorial, "Academic Pork; It's Big Bucks, not Smart Pigs," published in the *Chicago Tribune* on Feb. 22.

Burton Pogell, of the Center for Agricultural Biotechnology, for being elected a Fellow of the American Academy of Microbiology. The Academy recognizes distinction in all areas of the microbiological sciences.

Edward Redish, professor of physics, for being elected to the Executive Council of the American Physics Society Forum on Education.

Philip Roos, professor of physics, for being elected a Fellow of the American Physical Society "for his contributions

President Kirwan to Serve on Council Overseeing Fulbright Scholars

President William E. Kirwan recently accepted a position as a member of the Council for International Exchange of Scholars which oversees the Fulbright Scholar Program. He will serve a four-year term and will meet with other board members twice a year to look at broad trends and issues in higher education and make decisions about peer review procedures, aspects of publicity standards and administrative functions.

In addition, Kirwan will chair an area committee, read the applications from Fulbright applicants for a particular area and chair a group of four faculty who will review, discuss and then nominate a slate of candidates for the scholarship.

College Park is among the top six universities in the country in its number of Fulbright scholar grantees.

to experimental studies and interpretation of intermediate-energy quasi-free reactions, such as nucleon and cluster knockout reactions and pion absorption by nuclei."

The Interfraternity Council, which was recognized for excellence in several areas, including Outstanding Leadership Development, at this year's Northeast Interfraternity/Panhellenic Conference (NEIFC) in Danvers, Mass. Maryland also won an award for Academic Programming Excellence, acknowledging the IFC's efforts to promote improved academic perfor-

mance among fraternities.

David Stollman, president of Maryland's IFC, was honored as the Northeast Interfraternity "Man of the Year" in recognition of his outstanding leadership and commitment to excellence in the Greek system and his fraternity, Sigma Phi Epsilon.

Heith Rodman, a member of Beta Theta Pi, was elected president of the NEIFC. **Nicole Friedman**, a member of Phi Sigma Sigma, was elected Secretary of the Northeast Panhellenic Conference.

Casey Journalism Center Awards 1994 Fellowships for Seminar on Violence

Thirty print and broadcast journalists have been chosen to receive fellowships from the Casey Journalism Center for Children and Families to participate in an intensive week-long seminar on the causes and consequences of increasing violence by and against children and youths.

The Casey Journalism Center's second annual conference June 5-10 will explore root causes of increasing violence among the young, the impact of chronic family and community violence, the crisis in the juvenile justice system, legislative remedies, public health costs of violence, successful interventions and other critical topics. There also will be segments on practical reporting techniques and new models of reporting on violence from around the country. Experts from government, universities, policy research centers and the private-sector will lead journalists in in-depth briefings and discussions about the issues.

The fellowships were awarded by a selection committee composed of Deborah Cohen, assistant editor, Education Week; Jeffrey Katz, social issues reporter, Congressional Quarterly; and Michel McQueen, correspondent, ABC News' "Day One."

Fellowships awarded to the journalists cover instruction, lodging, meals and reading material and a travel subsidy. Fellowships are awarded annually for conferences which explore emerging issues about children and families. The Casey Journalism Center, which serves as a national resource for journalists who cover children and family issues, is funded by the Annie E. Casey Foundation, the nation's largest philanthropy dedicated exclusively to disadvantaged children. The Center also administers an annual journalism awards program, assists journalists by providing information about programs and trends affecting children, and monitors coverage in the field.

College Park Scientist Takes Part in Space Shuttle Experiment

One of the missions of Space Shuttle STS-59 which returned to Earth last Wednesday, was to measure the global distribution of carbon monoxide (CO) in the troposphere, or lower atmosphere. This experiment, assisted by Bruce Doddridge, assistant research scientist in the department of meteorology, is called MAPS (Measurement of Air Pollution from Satellite).

Measurement of CO, an important trace gas in several photochemical cycles, provides scientists with indications of how well the atmosphere can clean itself of "greenhouse gases," chemicals that can increase the atmosphere's temperature. The variation of CO in space and time is also of particular importance to levels of ozone, another important trace gas, in the lower atmosphere. Technological and

agricultural activities are generating CO in large and increasing quantities. This colorless, odorless gas is produced whenever most fuels are burned, most abundantly by automobile engines and as a result of the burning of forests and grasslands.

Preliminary results from the shuttle which returned to Earth last Wednesday measured high levels of CO in the northern hemisphere.

"CO tends to build up in high latitudes during the winter," Doddridge said, "but it was higher than expected. It's a surprising result. I wouldn't say levels were disastrously high but they were higher than we expected."

The MAPS instrument consists of an optical box, an electronics box, a tape recorder and a camera. Using a technique called gas filter radiometry, MAPS

measures a telltale infrared band in the heat emitted to space by the Earth and its atmosphere. It provides scientists with a better understanding of the actual size of sources of CO, changes which occur over the course of the year and the patterns of movement of the gas away from the sources — information that is now not clearly understood.

At the same time the MAPS instrument was measuring CO from space, researchers throughout the world were measuring the gas on the ground and in the air. Doddridge is a member of the MAPS Correlative Measurements Team, an international group of leading scientists interested in the global distribution of CO.

"Twenty-three ground stations between 71 degrees North and 67 degrees South and five aircraft through-

out the world measured CO during the STS-59 mission," he said.

Doddridge provided CO data in support of the mission from four ground stations (Iceland, Ireland, Bermuda and Barbados) and one aircraft flying over the Maryland Eastern Shore. These data will ultimately provide NASA with some evaluation of the quality of the MAPS method.

With this new information, scientists will have a much better understanding of our atmosphere and the consequences that human activities initiate in global change. "This technology," said Doddridge, "could be key in improving our understanding of the atmosphere and how human activities impact upon global biogeochemical cycles and climate change."

Take note

Outstanding Faculty Honored by Parents

John Splaine, a professor in the Department of Educational Policy, Planning and Administration, and Scott Glenn, a professor in the Department of Agronomy have been honored by the College Park Association of Parents. Splaine was given the Outstanding Faculty Award and Glenn, was named Outstanding Academic Advisor at a ceremony on April 9.

Finalists for the Outstanding Faculty Award included: Larissa Gruning of the College of Journalism, Denny Gulick of the Department of Mathematics, Richard Recusen of the Department of Biology and John Zacker from the Department of Counseling and Personnel Services. Perinkulam Krishnaprasad of the Department of Electrical Engineering and William Harwood of the Department of Chemistry and Biochemistry were the finalists for the Outstanding Academic Advisor Award.

Nominees were judged on their ability to relate to students, dedication to teaching, interest in students' personal and academic achievements, availability to students on an individual basis, ability to deliver subject matter in a stimulating and creative way and commitment to diversity. The finalists and winners were selected by members of the Parents Association Awards Committee who have been meeting since August 1993.

Academic Quiz Team Makes the Final Four

Maryland's Academic Quiz Team went to the Academic Competitions Foundation National Tournament this year and did something that the men's basketball team came so close to doing: they made the final four.

A team made up of Maryland seniors lost to the University of Chicago in the finals to come in second place. A second Maryland team made up of two sophomores, a junior and a senior came in fourth out of the 24 teams participating.

The tournament was held in Francis Scott Key Hall on campus.

"It was a beautiful weekend to showcase our university, and I think the other teams were impressed by how beautiful our campus is in the springtime," said Matthew Baker, a senior Regents Scholar and a member of the second place team.

The annual Faculty/Student Challenge, which pits the team against an all-star faculty team, is scheduled to take place at 7:30 p.m., on Wednesday, April 27, in Anne Arundel Hall.

The team also had a first-place finish at the Martin Luther King Weekend Tournament in Atlanta beating such teams as Chicago and Georgia Tech.

African History Expert Sees Opportunities for South Africa's Neighbors

As South Africa's first truly democratic elections approach, the world's attention is focused on the immediate outcome, the ramifications they will have on this historically divided country and the consequences the election in South Africa will have on other

African countries—many of which are struggling for industrialization and economic independence.

William Bravman, a professor of African history has been following the situation closely. He joins a majority of analysts predicting victory for Mandela and the African National Congress.

"Once the elections are over, African countries will certainly get behind the ANC-led government. But as the world opens its political and economic doors to South Africa, there is also an unspoken fear within the rest of Africa about how that will affect them," Bravman said.

High on the list of concerns is having local markets flooded by manufactured products from South Africa. With South Africa's advanced technology and industrialization, some less efficient producers in neighboring countries will face new struggles to compete, he said.

The return of South Africa into the mainstream will be felt worldwide in certain industries. "On one hand, Western investment and the marketing of Western goods is likely to step up. On the other hand, South African industries are liable to expand their search for external markets," Bravman said. "For example, South Africa has an old and well-established wine industry, producing an inexpensive product of very high quality. Those wines might soon be marketed more aggressively overseas."

Another big concern is the impact South Africa will have on one of the most profitable industries other African countries could previously count on—tourism.

"If political violence is controlled, South Africa will likely see a surge in tourism, perhaps at the expense of Kenya, Botswana, or Zimbabwe. In the past, South African has hosted relatively few American tourists," Bravman said. "This could have a serious impact on other African countries that rely heavily on tourism."

He adds that openness also provides opportunities for trade and collaborative ventures that were not previously possible. "There is talk in parts of Africa of building up an economic block together with South Africa," he said. "But a looming question persists about whether decisions will be made for the good of everyone or for the good of South Africa at everyone else's expense."

The ability of other African countries to develop or maintain their own industries could be significantly affected by South Africa's industrial power.

Bravman said: "Historically, the main thing South Africa has wanted from other African countries is mine workers, and migrant labor is not a particularly good backbone for a country's development."

University Looks Into Privatizing Graduate Apartments

A private property management company may assume responsibility for two graduate student apartment complexes at the university under a proposed long-term lease agreement now under review by university administrators and the university Board of Regents.

Southern Management Corporation (SMC), based in Silver Spring, will take over management and maintenance of the 145-unit Lord Calvert complex and

Inbrief

Down on the Farm For the 69th Time—April 30 will mark College Park's 69th annual student Agriculture Day. "Agriculture: Learning Today to Care for Tomorrow," is this year's theme. Events will include a student competition in fitting and showing dairy cattle, beef cattle, swine, horses and sheep, and a swine showmanship contest among members of the College of Agriculture faculty. Barnyard babies will be present in a farm petting zoo. Ag Day is sponsored by the agricultural student council with support from 12 agriculture student clubs, many of which will operate concession booths selling barbecued beef sandwiches, hot dogs, soft drinks and other food. Also on sale: bedding plants, vegetable transplants and craft items. An 11 a.m. dedication ceremony will commemorate the new agricultural engineering wings of the Animal Sciences Agricultural Engineering Building. Norman Scott, vice president for research and advanced studies at Cornell University, Ithaca, N.Y., is scheduled to speak. Activities will run from 9 a.m. to 4 p.m. There is no admission charge. The public is invited. For additional information contact William Magette 405-1190.



Speaking English With An Accent—The Maryland English Institute (MEI) invites students, faculty, staff and retired volunteers from the university community to meet College Park's international students through the Speaking Partners Program. Speaking Partners matches American volunteers with MEI's international students. Americans get to know someone from another part of the world, and MEI's students have a chance to practice using English in an informal setting for at least one hour a week all semester.

Those interested in volunteering may fill out an application and turn it in to the MEI office, Room 2140, Taliaferro Hall, at the beginning of the semester in which they want to participate.

Middle East, Asia and Latin America Meets West—The Maryland English Institute is looking for families who would like to give non-native English speaking students at College Park a chance to experience life in the United States. In addition to attending two MEI directed cross-cultural workshops per semester, the international students and their contact families are expected to meet at least three times for activities that could include a holiday dinner, sightseeing or visiting museums. Families wishing to participate in the Welcome Home to Maryland Program should turn in an application to the MEI office or contact Denise Burns at 405-8634.

the 331-unit University Hills complex, both adjacent to College Park. The agreement with the university and the State of Maryland also would require SMC to renovate University Hills over the next two years. The proposed agreement will be submitted to the Board of Regents for final approval in early May.

"This affiliation between the university and Southern Management Corporation is exactly the kind of win-win privatization Governor Schaefer has encouraged," said President William E. Kirwan. "The partnership will result in both economic benefits to the state's private sector and improved and affordable housing options for our students."

Under the proposed limited partnership, the university would grant the company a 35-year lease on the properties, renewable in 15-year increments to 99 years. SMC would pay the university 30 percent of gross revenues from the two complexes, and would renovate the University Hills apartments at a cost estimated to exceed \$3 million.

Income from the lease agreement is expected to be used by the university to fund capital renovation and construction projects, such as a graduate student center, an international guest center, an expanded faculty-staff club and an alumni center.

In negotiating the agreement, the university addressed concerns raised by current graduate student residents in a March 24 letter to the Board of Regents and at a series of open meetings held on campus. In response to those concerns, SMC has agreed to a number of initiatives assuring the Lord Calvert and

University Hills complexes will continue as graduate student communities.

SMC would discount rental rates 10 to 20 percent for graduate students and would develop means for new graduate students to lease units in the complexes without having to visit College Park prior to matriculating. The firm also has agreed to maintain quiet hours, conduct periodic surveys to determine resident satisfaction and areas for improvement, and convert unused basement space to finished common areas for meetings, child care and other resident activities.

Under the proposed lease arrangement SMC would impose no rent increase beyond the six percent increase already announced by the university until June 1995. Beyond that date, rent increases would be held to no more than the percent of increase in the consumer price index (CPI).

Privatization of the Lord Calvert and University Hills apartment complexes has been under study and negotiation since October 1992, when the Board of Regents authorized the university to solicit privatization proposals. Once proposals were in hand in late 1993, the regents authorized the university to proceed with negotiations and in February, appointed a special sub-committee to review the proposals and make a recommendation to the full board.

The sub-committee, chaired by Regent Ann Hull, reported orally to the regents' finance committee on March 25, and will recommend acceptance of the SMC proposal at the next meeting of the full board on May 6.

Surf's Up

Maryland's Dr. Beach Picks His Top 20 Seaside Spots

After a long, cold winter, many Marylanders are dreaming of sunshine and sandy beaches. Ocean City, Bethany Beach and Rehoboth all make for a convenient and familiar escape, but when the urge to be surfside demands something different, Stephen Leatherman is the man to see.

Leatherman, alias Dr. Beach, has released his annual listing of America's best beaches. And claiming the top spot is Florida's Grayton Beach, bringing the title back to the Continental United States after it went to Hapuna Beach in Hawaii last year.

Grayton Beach's number one ranking was with good reason this year, Leatherman said. Located on

Florida's panhandle, the beach has always ranked highly but it "punched through this time."

"Grayton Beach is kind of the perfect beach, if there is one. It's a well maintained state recreational area, has good facilities for visitors, sugar white sand, a lake nearby and beautiful, clean aquamarine water," he said.

He also listed Grayton's lack of pollution, low crime rate, lack of heavy development, wide, natural beaches, warm water, good fishing and swimming as great natural assets. "It's got all the right qualities to make it an outstanding beach park," he said. "It's not clouded by hotels and hot dog stands."

One of the world's leading beach geologists, Leatherman, director of the

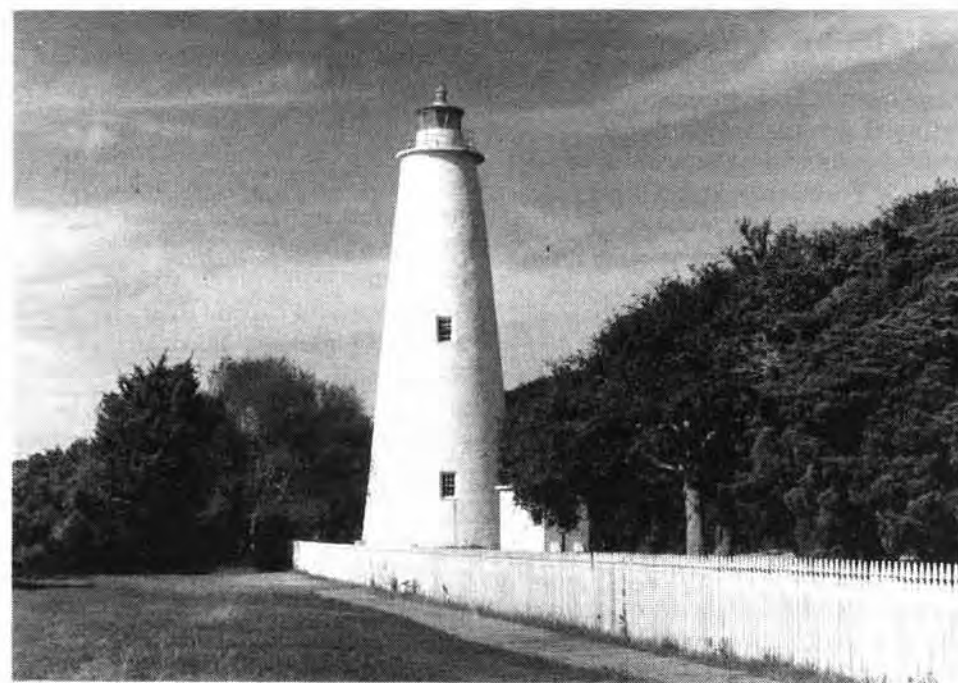
Laboratory for Coastal Research and professor of geography at the university, examined 650 beaches throughout the Continental United States and Hawaii. Grading them on a scientific scale that included such factors as sand softness, water and air temperature, number of sunny days, currents, smell, pests, trash and litter, access, crowds, crime and others, he determined that Hawaii and Florida claim the nation's top beaches.

But the long drive to Florida or the expense of airline tickets to Hawaii isn't necessary if a "best beach" is what you seek. Making a strong showing in this year's survey were beaches in New York, Massachusetts and North Carolina, due in large part to a strong recovery from storm damage that had kept them out of previous surveys.

"Westhampton Beach in New York was severely dam-



Grayton Beach, Florida



Ocracoke Island, North Carolina

Top 20 Beaches in the United States

1. Grayton Beach, Florida
2. Kailua, Hawaii
3. Caldesi Island State Park, Florida
4. St. Andrews, Florida
5. St. Joseph Peninsula State Park, Florida
6. Kaunaoa, Hawaii
7. Crandon Park, Florida
8. Ulua, Hawaii
9. St. George Island State Park, Florida
10. Fort Desoto Park, Florida
11. Delnor-Wiggins Pass, Florida
12. Perdido Key, Florida
13. Hulopoe, Hawaii
14. Ocracoke Island, North Carolina
15. Sand Key Park, Florida
16. East Hampton Beach, New York
17. Westhampton Beach, New York
18. Clam Pass Park, Florida
19. Smathers Beach, Florida
20. Coast Guard Beach, Massachusetts



aged by a northeaster in December, 1992," Leatherman said. "But they've made a tremendous recovery and I'm glad to see them make a comeback."

East Hampton Beach, in New York, also made the top 20 rating. And in nearby North Carolina, the Outer Banks' Ocracoke Island placed 14th on the list.

Most people don't think to head north for their seaside escape, but Leatherman chose a "beautiful" beach in Massachusetts known as Coast Guard Beach for the number 20 spot.

Four out of the five top spots were claimed by Florida, which has traded places at the top with Hawaii for all four years of the survey.

This year's listing included 12 Florida

beaches in the top 20; Hawaii had four.

Leatherman said the survey favors natural beach areas over developed areas, which hopefully tempers the enthusiasm of winners who might be tempted to increase development in light of the results. "I tell them not to kill the goose that laid the golden egg," he said. "You've got to keep development in balance with nature."

Leatherman clarifies this by pointing to some of the nation's most popular beaches, such as Jones Beach in New York. With 6-10 million visitors a year, the nation's most popular beach looks like a "patchwork quilt" from the air, he said, with row after row of beach towels touching each other.

"The most popular beaches aren't necessarily the best beaches," he said.

In addition to the best beaches, Leatherman has previously rated America's worst beaches. He didn't publish a listing this year, but he said he is keeping tabs on those beaches and is actually seeing some success as a result of the survey.

Border Field State Park in San Diego County, Calif., is a prime example. Two years ago it was included as one of the worst beaches in the country because raw sewage from Tijuana, Mexico, constantly washed up on the beach, making swimming impossible. After the survey, however, the beach received a lot of notice from the press and public, and as a result, a \$2 million arresting device has been installed to help divert the stream of sewage away from the coast.

"The people in San Diego were really mad at us (because of the survey) but it got some good done," Leatherman said.



Coast Guard Beach, Massachusetts