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Bond Campaign Gains Momentum

With Election Day (Tuesday, Nov. 3) just a week away, the campaign to inform voters about Virginia's bond referenda is reaching its peak. Recent polls show that Virginians in general support higher education, but with many voters angry about various aspects of government, that approval needs information and encouragement to turn into votes.

At stake is \$613 million to fund badly needed construction for mental health, parks and natural areas, and higher education. Higher education will receive \$472 million if the bonds pass, with \$47 million of that earmarked for George Mason. At Mason, the bonds would fund a new library—part of the planned University Center—a classroom building, the first building on the new Prince William Institute campus, a new building at the Arlington Campus for the law school and other programs, and the renovation of Finley, Krug, East, and West buildings.

According to president George Johnson, this vote is for much more than buildings. "This is a vote for the future of higher education in Virginia," he says. "It is an opportunity for Virginians to tell legislators where their priorities lie and where future funding should be directed."

The statewide campaign to inform Virginians about the bonds, led by Virginians for Progress Foundation chairperson Larry Framme, is gathering speed. Thirty-second television spots, funded by contributions, are now showing throughout the state. Most major state newspapers, including the *Washington Post* and the *Richmond Times-Dispatch*, have endorsed the bonds, as have local newspapers including the *Connection* chain and the *Journal* newspapers. In Northern Virginia, the bond speakers bureau has received more than 100 requests to provide speakers to local business, civic, and service groups.

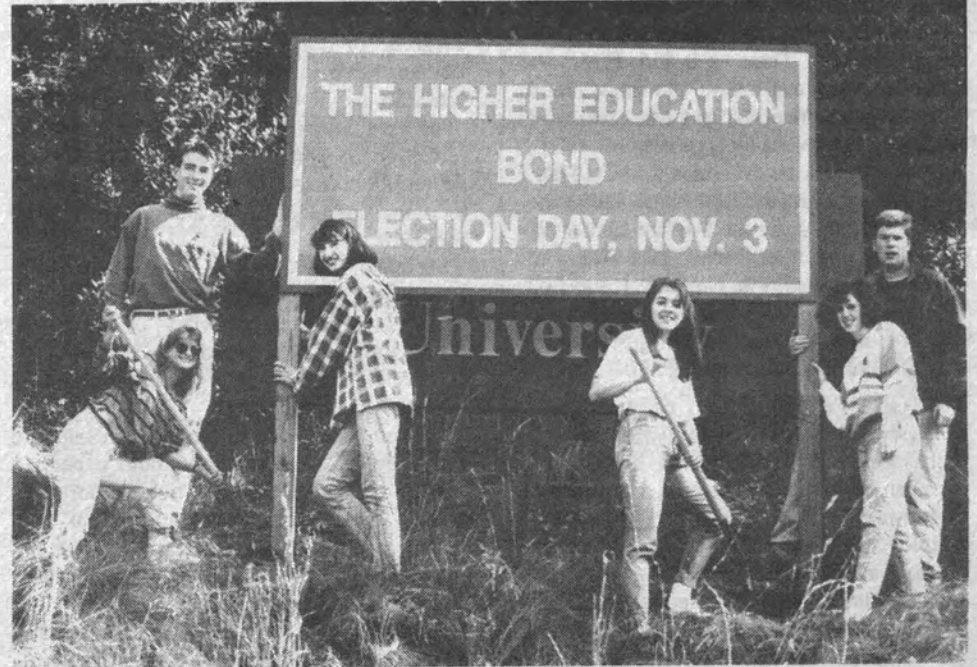
An important part of the local effort to inform people about the bonds takes place on Election Day, with a drive to place volunteers at all of

Northern Virginia's 356 precincts. Volunteers will provide uniformed or undecided voters with information on the bonds. A thousand volunteers are required one-to-two-hour shifts at the polls, according to Monica Neighbors, chair of the Election Day Committee. So far, 300 people have signed up.

Many local organizations have also endorsed the bonds. They include Alexandria Chamber of Commerce, Alexandria City Council, Arlingtonians for a Better County, Arlington Chamber of Commerce, Arlington County Board, Central Fairfax Chamber of Commerce, City of Manassas, Fairfax County Council of PTAs, Fauquier County Board of Supervisors, Greater Manassas Chamber of Commerce, Greater Washington Board of Trade, Preservation Alliance of Virginia, Prince William County Board of Supervisors, Prince William County Chamber of Commerce, Town of Warrenton, Virginia Association of Landscape Architects, Virginia Chamber of Commerce, Virginia Education Association, Virginia Economic Developers Association, Virginia Library Association, and Virginia School Board Association.

George Mason alumni have also been active. Under the direction of Annual Fund acting director Kathy Hofer, alumni are volunteering to take part in the phone bank and to work on Election Day to hand out sample ballots.

On campus, the Students for the Bonds Committee has been busy, organizing a very successful voter-registration campaign, manning a table in the Student Union to inform students about the bonds, passing out information at such events as Homecoming, and establishing their own speakers bureau to talk to student groups. The Faculty Bond Committee, led by College of Arts and Sciences dean David Potter, has established a liaison group to inform faculty about the bonds through their departments. The Staff Committee, led by assistant vice president of Human Resources Jeff Brandwine, has arranged to



Sign of the Times

As Election Day approaches, students are taking the lead in getting the word out on Virginia's \$472-million higher education bond. Helping erect a sign on the corner of Braddock Road and Route 123 are members of the Students for the Bond Committee (from left): Brian Reagan, Andrea Fried, Paula Govers, Cory Horda, Melissa Mangini, and Martin Haley.

include bond information in all George Mason paychecks.

While all these efforts are helping educate citizens both on and off campus, many people still have questions. Among the most common are:

Will these bond issues raise our taxes?

No. The repayment of these bonds is already budgeted for the next two years. The bonds will be repaid over a 20-year period. The annual payback is less than one half of one percent of the state's general fund revenue, an amount so small that no tax increase is necessary to make the payments.

What happened to the lottery profits that were supposed to fund capital projects?

In a word, recession. The current recession caused a major shortfall in revenues. The lottery profits had to be used to meet basic operating expenses. Many states, such as New Jersey, Connecticut, and California, responded to the recession with high tax increases. Virginia cut spending.

What is the estimated interest rate for the length of the bond payment period?

Interest rates were projected at a 6.8 percent true interest rate over a 20-year period.

Bronze Sculpture Donated to Mason

A new sculpture was erected in early October in the courtyard between Mason Hall and the Performing Arts Building. The statue, created by Azriel Awret of Falls Church, was commissioned by Awret's brother Charles, president of Maywood Building Corporation in Springfield, and donated to the university. Called "Communitas," the design—three people facing one another, their arms encircled—is especially fitting, given the university's widely diverse student body.

This is not the first time Poland native Awret has created sculptures for George Mason. Three other Awret works are on campus: the "Woman in the Hammock," located between Robinson I and II, and "The Cello Player" and "Two Musicians," located in the Concert Hall lobby. They were commissioned by the artist's brother as well.

Awret studied art in Ghent, Belgium, and was founder and chairperson of Safed Artists' Colony in Israel. He has had one-man shows in New York, Tel Aviv, Washington, D.C., and Peabody, Massachusetts. His work can be found at the Milwaukee Art Institute and the Museum of Modern Art. Joan Fontaine and Dr. Jonas Salk own his work, as did the late Charlie Chaplin, Mary Pickford, and Yitzhak Ben Zvi, former president of Israel.



Photo by Neil Adams

Columbian Quincentennial Symposium, Schedule Set for November

A quincentennial program marking the voyage of Christopher Columbus, titled "Encounter and Exchange: A GMU Perspective on 1492," is a monthlong series featuring a symposium, art exhibit, musical concert, and lectures.

The newly reorganized Project for the Study of the Americas (formerly the American Studies program), directed by Tom Moylan, English, initiated the idea for the symposium. Joseph Wood, Geography and Earth Systems Science, and Patrick Story, PAGE director, developed the quincentennial program series, which is sponsored by the College of Arts and Sciences (CAS).

The series' centerpiece is the symposium, set for Wednesday, Nov. 18, from 1:30 to 5:30 p.m. in the Concert Hall. Introduced by CAS dean David Potter, the program consists of four panels that examine the encounter of American and European cultures and its consequences. Scheduled panelists and presentations are:

- Indigenous Peoples in the Americas, 1:30 p.m., with Ann Palkovich, Sociology and Anthropology, "Old World Diseases, New World Populations: The Significance of Smallpox in 1492"; and Edmundo Morales, Sociology and Anthropology, "Changes and Developments in the Use of the Guinea Pig Germ Plasm in the Andes." Moderated by Jay Wilson, Biology.

- Manners and Modes of Interactions, 2:30 p.m., with Mack Holt, History, "Manners and Social Distinction in the Old World and the New"; and Lisa Rabin, Foreign Languages and Literatures, "The Muse in the Mexican Convent." Moderated by Mark Jacobs, Sociology and Anthropology.

- Images of Native Americans, 3:30 p.m., with Jennifer Roback, Economics, "Encounter and Exchanges: Land Trades Between Native Americans and British Americans"; and Egon Verheyen, Robinson Professor of Humanities, "A Memorial of the Indian Race and an Embodying of the Indian Character (The Indian as Represented in the Decoration of the U.S.

Capitol)." Moderated by Susan Tichy, English.

- The Global Cultural Context, 4:30 p.m., with Lois Horton, Sociology and Anthropology, "From Discovery to Encounter: African American History and Culture in New Perspective"; and Lawrence Butler, Art and Art History, "1492: Muslim/Jew in Turkey, Too." Moderated by Marilyn Mobley, English.

Other continuing or upcoming activities include a lecture by David Stannard on his book, *American Holocaust: Columbus and the Conquest of the New World* (Oxford, 1992), on Nov. 19 at 4:30 p.m. in Lecture Hall I.

Stannard, professor of American Studies at the University of Hawaii, draws on interdisciplinary thinking to portray the diversity of life in the Americas before Christopher Columbus. He recounts the long, bloody history of European and Indian clashes. This dark side of history is examined in the context of European Christian attitudes toward sex, race, and holy war.

Among the visual arts presentations are "Windows," a photo-collage triptych by Ellise Fuchs, now on display in Fenwick Library. An exhibit by the United States Information Agency (USIA) artist-in-residence with the Art and Art History Department, Chilean artist Pablo Dominguez, is also scheduled.

Dominguez is on campus through Dec. 15 as part of the USIA's visiting-artist program. His work will be exhibited Nov. 30 to Dec. 9 in the Fine Arts Gallery, Fine Arts Building, Room B104.

"This is an encounter with the southern part of the Western Hemisphere," says Sheila ffollott, Art and Art History acting chairperson. "Latin American art is becoming very popular. There is an ongoing dialogue between European and indigenous American influences."

The quincentennial series also featured a lecture by Latin American statesman and former Dominican Republic president Juan Bosch on Oct. 15 and a concert by the Waverly Consort on Oct. 16.

In Box

• **Flu shots are available** to faculty and staff beginning Oct. 26 at the Student Health Center, SUB I, Room 232, at the following times: Mondays 1 to 4 p.m., Wednesdays 9 a.m. to noon, Fridays 9 to 11:30 a.m. Those allergic to eggs should not receive the injection. The cost is \$15. For more information, call x2830. Flu shots, blood glucose evaluations, and cardiovascular profiles (includes total cholesterol, HDL, LDL, VLDL, triglycerides, and TC/HDL ratio) are available for a small fee at the Health Fair, sponsored by the Center for Health Promotion, on Nov. 11, 8:30 a.m. to 12:30 p.m. in the P.E. Building, Room 217 lobby. Please fast for all the blood work. For more information and an appointment, call Theresa O'Donnell, x2074.

• **SITE's Department of Operations Research and Applied Statistics (ORAS)** has formed two departments. The Department of Operations Research and Engineering, chaired by Carl Harris, retains the ORAS phone number x1670 and office space at Science and Technology II, Room 111. The Department of Applied and Engineering Statistics, chaired by Edward Wegman, is located in Science and Technology II, Room 157. The phone number is x1680.

• **Open enrollment for flexible spending accounts** continues through Oct. 30. This program allows participants to set aside pre-tax dollars to pay for uninsured medical expenses and dependent care. Full-time participating employees must submit a new election form to continue this benefit during 1993. The Human Resource Department reminds employees that this is a short-plan year for the first six months of 1993 to bring health benefits and the flex plan into the same enrollment cycle. This election covers expenses only for Jan. 1 to June 30. For more information, call x2600.

• **Nominations for Virginia's Outstanding Scientist and Industrialist Awards** program are being accepted. Faculty, research staff, senior management, and board members are eligible for the 1993 awards. Deadline for nominations is Nov. 10, and awards will be presented at the Science Museum of Virginia in Richmond, Mar. 29. For application forms or more information, call the Physics Department, x1280.

• **"Sixties Generations: From Montgomery to Viet Nam,"** a multimedia, interdisciplinary conference for scholars, activists, and artists, is Mar. 4 to 6 at George Mason University. Proposals are being accepted for papers, presentations, panels, and workshops in the arts, humanities, and sciences, on the diversity and complexity of American and international cultures during the sixties in terms of their continuing influence on contemporary U.S. culture. Suggested topics range from Alcatraz and Almont to Woodstock and the Young Lords Organization. Sponsors are the George Mason's American Studies and African American Studies programs and Vietnam Generation, publisher of *Vietnam Generation*, a quarterly journal for academics, activists, and artists who teach or research the Vietnam War and other sixties topics. Proposal deadline is Dec. 1. Send one- to two-page proposals or abstracts to Vietnam Generation, 2921 Terrace Drive, Chevy Chase, MD 20815. Call (301) 608-0622; fax (301) 608-0761.

• **COLORS (Campus Organized Lectures on Racial Sensitivity)**, sponsored by Alpha Kappa Alpha, a historically African American women's sorority, and Sigma Chi, a traditionally white male fraternity, is a three-day event aimed at promoting racial unity and sensitivity on campus. Roger Wilkins, Robinson Professor of History and American Culture, is keynote speaker on Monday, Nov. 2. Thought-provoking skits and open discussions are Tuesday, Nov. 3, and a variety show is set for Wednesday, Nov. 4. Activities start at 8 p.m. nightly in SUB II. All members of the campus community are invited to attend the free event.

Alternative Spring Break Highlights Social Issues, Service

By Laura Martinez Massie

During spring break 1993, students have the opportunity to travel to a Native American reservation in Cherokee, North Carolina; an Appalachian folk-life center in Pipestem, West Virginia; or a homeless shelter in Atlanta, Georgia, as part of the Volunteer Center's "Alternative Spring Break 101: The Sounds of Service." "The trips combine volunteer service with an education on community issues that extends beyond the classroom," says Nicole West, director of the Volunteer Center and organizer of the programs.

As an introduction to the issues of the Native Americans, the homeless and hungry, and the culture of Appalachia, previews of Alternative Spring Break are being held on three Thursdays in November, and are open to faculty, staff, and students.

According to West, the November events are a preview of what students could expect if, instead of taking the annual trek to Florida or perhaps doing nothing during spring break, they volunteer to spend the week learning about and working with the homeless, Native Americans, or the people of Appalachia.

"The programs lay the foundation for those who want to participate in the Alternative Spring Break," says West. "We want to educate students about the issues of each community and provide an opportunity for getting involved in service."

The focus is on Native Americans on Nov. 5,

featuring an American Indian Society art and artifacts display, open from 10 a.m. to 6 p.m.; a discussion of current issues facing Native Americans, featuring Evelyn Pickett, a Cherokee, from the Bureau of Indian Affairs, and Rose Robinson, a Hopi, of the National Congress of American Indians, from noon to 1 p.m.; a discussion led by Mohican musician Bill Miller about reservation life and the impact of alcohol abuse, from 1 to 2 p.m. He later performs at 8 p.m. in the SUB II Ballroom.

At 2 p.m., a discussion of health conditions on Native American reservations is being led by Audrey Koertelyessy, director of the Division of Nursing, Indian Health Services. Clyde Bellecourt, a Chippewa Indian and founder/director of the American Indian Movement, talks about combating racism against Native Americans at 3 p.m. A Native American dance demonstration by the Little River Dancers begins at 7 p.m. in the Ballroom.

Appalachia is the theme for events on Nov. 12. Starting at noon, Warren Doyle, director of Hemlock Overlook and the Center for Outdoor Education, discusses Appalachian history and community issues; musician Mike Seeger performs a demonstration of Appalachian music, featuring a fiddle, autoharp, dulcimer, banjo, guitar, and mandolin at 1 and 7 p.m.; Debbie Williams, an assistant to Senator Jay Rockefeller (D-W.V.), leads a discussion on the state's response to issues regarding Appalachia at

2 p.m.; and the No Strings Attached dulcimer band performs at 8 p.m.

On Nov. 19, the emphasis is on hunger and homelessness, coinciding with National Hunger and Homelessness Awareness Week, Nov. 16 to 20. At noon, Fred Camas of the National Coalition for the Homeless and Denise Tilrico of So Others Might Eat (SOME) discuss homelessness in the United States and working with the homeless; Jennifer Coken of the National Student Campaign Against Hunger and Homelessness will be on hand to address the latest in student movements to combat hunger and homelessness at 1 p.m.; Tim McGraw of the Task Force for the Homeless in Atlanta discusses the potential impact of the 1996 Summer Olympics on Atlanta's homeless at 2 p.m. Housing projects and homeless shelters are expected to be demolished to make room for the Olympic Village.

Photojournalist Jim Hubbard, known for putting cameras into the hands of homeless children so they can record their lives, will display his and their works from 3 to 5 p.m. Rounding out the day's events will be a performance of songs and monologues by residents of the Washington, D.C.-based Community for Creative Non-Violence (CCNV).

For more information on Alternative Spring Break programs, contact the Volunteer Center at x2909. All November previews are held in SUB II, Rooms 5, 6, and the Ballroom.

Giovanni Lecture Opens Black Leadership Conference

By Laura Martinez Massie

Renowned poet, writer, and lecturer Nikki Giovanni is the keynote speaker at the sixth annual Black Student Leadership Conference, Friday, Nov. 6, at 8 p.m. in the SUB II Ballroom.

A professor of English at Virginia Tech, Giovanni has been hailed as one of America's finest artists. Well-known for her outspokenness in her writing and in person, she has been called a "revolutionary poet," having fought for civil rights and equality in education. After the publication of her first book of poetry, *Black Feeling Black Talk*, Giovanni was nicknamed the "princess of black poetry." Since 1968, she has written nearly 20 books, made a half-dozen records, and has had a movie made about her work. Her most recent book is *Sacred Cows...and Other Edibles*. She graduated from Fisk University in 1967 with a degree in history.

Faculty and staff are welcome to attend

Giovanni's lecture.

Cost is \$6 for George Mason affiliates before Nov. 1 (\$10 after Nov. 1). Tickets are available Oct. 26 at all TicketMaster locations, including the Patriot Center and SUB I box offices.

Sponsored by the Student Leadership Center (SLC), the conference provides a forum for discussion of issues and concepts germane to the development, enhancement, and effectiveness of black student leadership, says Laura Grunawalt, program coordinator for SLC. Other keynote speakers for the conference are Edwin J. Nichols, the director of Nichols and Associates, an applied behavioral science firm that provides services to major corporations on the issues of diversity in the workplace; and Herma B. Williams, Graduate School of Education.

For more information about Giovanni's lecture or the Black Student Leadership Conference, call Grunawalt at x2900.



Nikki Giovanni

Student Health Center Expands Staff, Improves Services

By J. Kenneth Townsend

The number of students seeking help at the Student Health Center has dramatically increased since August, with the addition of a new part-time medical director, full-time nurse practitioner, and full-time medical records assistant. Word-of-mouth is spreading the news about the care now offered by the center, says clinic coordinator Janet Hale, School of Nursing.

Because of growing demand, two office spaces adjacent to the center in SUB I are being converted into new examination rooms this semester, says Hale.

Last month, 836 students visited the center, compared to 508 in September 1991. Of that total, 556 were female, and 280 were male, with many of the women taking advantage of gynecological exams given by the center for the first time this year, says Dr. Wagida Abdalla, the center's new medical director.

She practices Mondays, Wednesdays, and Fridays at George Mason University, and the rest of the week at George Washington University's student health service.

A 19-year medical veteran, Abdalla graduated from the University of Alexandria, Egypt, School of Medicine in 1973. Since arriving in the United States 15 years ago, she served her residency in pediatrics at the University of Maryland, and was awarded a fellowship in adolescent medicine at Children's Hospital.

"Although I miss children, I really enjoy working with young adults. Overall, students are a

very healthy group," says Abdalla. "They are eager to practice preventive health measures. For example, they are willing to learn about the benefits of regular exercise or about avoiding sexually transmitted diseases."

Most student complaints center around upper respiratory or stomach infections, while many seek information about HIV tests and symptoms of AIDS, says Abdalla.

Says the center's nurse practitioner, Cathleen Frein, "Students should feel that this is the place they can come with health issues. We can talk to them. We are care providers, not just a referral service."

Abdalla and Frein enjoy a long professional relationship. They first worked together at George Washington University 12 years ago. "We have been a team since," says Frein, who received a master's degree in nursing from The Catholic University of America in 1979.

The two health professionals are joined daily by medical records assistant and receptionist Julie LeBlanc, who graduated from George Mason in May with a B.A. in psychology. LeBlanc is the first point of contact when students visit the center.

Being the same age as many of the students is a plus, because it helps break down communication barriers, says LeBlanc. She adds that she is interested in pursuing a nursing career, and may apply to George Mason's School of Nursing.

"I try to make the center a welcoming place to visit," she says.

Barter Box

• **House for Rent:** Four-bedroom, 2 1/2-bath, garage, washer/dryer. Within biking distance to campus. Prefer no pets. Family neighborhood. Call 352-2300 or 250-2680 after 5 p.m.

• **For Sale:** Girl's 10-speed bicycle, good condition. Call 250-9641.

• **Free to First Caller:** Complete run of *Scientific American* magazines (1972 to 1986) available to any person or group wishing to have them. Call Pearl Domzalski, x8773.

• **Wanted:** Visiting Scholar from Czechoslovakia staying with host family in Burke (off Rolling Road) needs transportation. Persons who can help with occasional rides may call Pearl Domzalski, x8773.

• **House or Apartment Sitter Available:** A Canadian faculty member, visiting the Physics Department during spring 1993 semester, seeks a small house or apartment for himself and his wife. Call Bob Ehrlich, x1268.

• **To Share:** Female roommate wanted for two-bedroom apartment at Lee Highway and Gallows Road. Good access to D.C., George Mason, Tysons Corner, etc. Rent negotiable. Call Sanjay, x8809.

• **For Sale:** Three-bedroom, 3 1/2-bath end-unit townhouse with deck backing to woods. Finished basement. In Springfield, nine miles from campus. Call Gazella Mettala, x8750.

Bizet's *Carmen* Marks Virginia Opera Concert Hall Debut

The Virginia Opera makes its George Mason debut on Friday, Nov. 6 and Saturday, Nov. 7 at 8:30 p.m. with a full production of Georges Bizet's seductive classic *Carmen*. Sung in French with English supertitles, the fateful story of a passionate Gypsy recklessly pursuing her desires is directed by Daniel Helfgot, with Virginia Opera general and artistic director Peter Mark as conductor.

Alternating casts perform on Friday and Saturday evening with Cecilia Angell as Carmen and Daniel Hendrick as Don José on Friday and Carol Sparrow in the title role with Dale Smith as Carmen's desperate lover on Saturday. Both performances are preceded by an open discussion with Jerome Shannon, Virginia Opera artistic administrator, beginning at 7 p.m. in the Concert Hall's Grand Tier Lobby.

The *Carmen* engagement, representing the first time Washington area audiences will see the Norfolk and Richmond-based company in a fully produced opera, is an element of a recently inaugurated long-term relationship between Virginia Opera and the Institute of the Arts. As part of the collaboration, the opera's vocal coaches conduct master classes throughout the year for Mason's vocal students and the company's artistic team teaches vocal classes, dialect, diction, repertoire, music, and opera history at least twice per semester. Virginia Opera returns to the Concert Hall stage on Jan. 29 and 30, in its all-new production of *The Swing Mikado*, an adaptation of the Gilbert and Sullivan operetta featuring contemporary music idioms.

Peter Mark has led more than 40 productions for Virginia Opera, for which he has served as general director and artistic director since the company's inception in 1975. In addition to his work in Virginia, he has led successful operatic productions at the New York City Opera where he "eloquently" conducted *Mary, Queen of Scots*, in Los Angeles with *La Boheme*, and at Royal Opera House Covent Garden for the British premiere of Thea Musgrave's *A Christmas Carol*. His wife, Thea Musgrave, composed *Mary, Queen of Scots* and *A Christmas Carol*, which both received national attention.

Linda Garner Miller, associate professor of dance at George Mason, is the production's choreographer. Miller has had a varied career in dance as a performer, teacher, and choreographer. In New York she studied at the Joffrey School and as a company apprentice performed with the Gloria Contreras Dance Company and the Kansas City Opera. As premiere danseuse for the Cincinnati Summer Opera, she performed in productions of *Carmen*, *Aida*, and *Samson and Delilah*. She has also performed with Ruth Page's Ballet Company and the Chicago Lyric Opera. In addition to choreographing for Mason productions, she is the choreographer and dance adviser for INTERACT, a professional theater company, where her most recent credits include *The Pirates of Penzance* and *H.M.S. Pinafore*.

Tickets to the Virginia Opera production of *Carmen* are \$35, \$31, and \$22. For information, call the box office at (703) 993-8888.

GMU Great Artists Series Opens

The Kalichstein/Laredo/Robinson Trio, ranked internationally in the highest echelon of chamber music ensembles, opens the Great Artists Series at George Mason University's Concert Hall on Sunday, Nov. 15. The 7 p.m. program, titled "Brahms and His Friend and Enemy," features *Trio in C Minor, Opus 101* by Brahms; *Trio in E Minor, Opus 90* ("Dumky") by Dvorák; and *Trio in A Minor, Opus 50* by Tchaikovsky.

The Kalichstein/Laredo/Robinson Trio, formed in New York in 1976 when the musicians convened backstage at a Mostly Mozart concert, has been cited for its rare blending of virtuosity, musicianship, and joy of collaboration. Individually, pianist Joseph Kalichstein, violinist Jaime Laredo, and cellist Sharon Robinson have performed with the world's premier orchestras and conductors, and enjoy solo international careers. Together, the ensemble's signature interpretations of the great literature for piano trios has prompted praise from audiences and critics alike—including John Rockwell of *The New York Times*, who described them as "one of the best blended, most sensitive and intelligent piano trios in the world today."

"Brahms and His Friend and Enemy" is a special program showcasing one of the most famous "feuds" of the music world—between Brahms and Tchaikovsky. The two giant composers could not see all that they had in common, concentrating instead on all that set them apart

from each other. This antipathy was uncharacteristic of Brahms, however, who was often a loving and loyal friend, as demonstrated by his devotion to Dvorák.

Tickets to the Kalichstein/Laredo/Robinson Trio Concert are \$22, \$19, and \$15. For information, call the box office at (703) 993-8888.

Toshiko Akiyoshi Jazz Orchestra Swings GMU Concert Hall

By Larisa Wanserski

Composer/arranger/conductor/pianist Toshiko Akiyoshi bring her 16-piece jazz orchestra to George Mason's Concert Hall on Friday, Nov. 13 for an evening of the classic standards and original compositions. Tenor saxophonist/flutist Lew Tabackin is featured in the 7:30 p.m. concert, which is preceded by a 6 p.m. open discussion of the big-band style led by music professor Glenn E. Smith in the Grand Tier Lobby of the Concert Hall.

Toshiko Akiyoshi has built a distinguished recording and concert career in the United States and Asia. Born and raised in Manchuria, China, she formed her own big band in 1973—led by herself and her husband, Tabackin—to perform her original music.

Akiyoshi attributes her stylistic direction to the influence of jazz giant Duke Ellington. "He was very proud of his race, and many of his compositions were based on his race," says Akiyoshi. "When I noticed that, I felt that I should look at my heritage. I decided that's my positive quality, so I should draw from my heritage and fuse it to a jazz music. Perhaps I can return something to jazz history."

Tickets to the Toshiko Akiyoshi Jazz Orchestra are \$22, \$19, and \$15. For information, call the box office at x8888.

History of Jazz Lecture and Demonstration

Join jazz legend Dr. Billy Taylor for a lively lecture and demonstration tracing the history of jazz. This program is particularly well-suited to students of African-American studies, history, music, and other arts-related subjects; and it is an excellent preparation for Concert Hall performance of the Billy Taylor Trio on Dec. 5. The lecture takes place in Harris Theater on Monday, Nov. 16, at 4 p.m. A meet-the-artist reception follows. The program is free and open to the university community. No tickets are required, but those interested should R.S.V.P. by calling the box office at x8888.

C-SPAN Archives Available to George Mason Faculty

George Mason faculty can rent or purchase tapes of C-SPAN programming through an arrangement with Purdue University's Public Affairs Video Archives Office, according to Janet Muir, Communication, who is a C-SPAN educational advisory board member.

Muir has received more than \$3,000 in grants from C-SPAN for purchasing C-SPAN programming from the Purdue Archives. She used part of this money to join Purdue's Academic Consortium, which allows anyone at George Mason to take advantage of archive offerings.

She receives a monthly update on all programming that recently aired on C-SPAN on preselected areas of interest. If needed, she can request the Purdue Archives staff to run special searches for information on programming.

Muir also gets indexes that include all the public affairs programming on C-SPAN. An on-line service is planned, which allows anyone to access the Purdue database by computer.

Faculty in the Public Affairs and Communication departments, for example, may find the archival material useful for teaching or research, says Muir.

"Taped copies of the presidential debates, or political speeches, women's issues, and the environment are some topics that faculty may want to use," she adds.

Consortium members can borrow tapes with the option to purchase. Any faculty member wishing to review a tape should contact Muir, and she will contact Purdue.

Tapes can be borrowed at a 25 percent discount, with \$5 per hour to retain tapes after the borrowing period. Tapes can be purchased with a 15 percent discount. Transcripts can also be purchased. No purchase orders are necessary, says Muir.

For more information, call x1103.

Stateline

By Michele Braithwaite

Rankings and More Rankings

George Mason is the top regional "up-and-comer" in *U.S. News & World Report's* college guide, with James Madison at No. 2. UVa is the fourth-ranked "best buy" in national universities and Washington and Lee is first for liberal arts colleges. UVa is also in the top 25 of the nation's best universities. *U.S. News* lists an additional 179 national universities, and William and Mary placed in the first quartile, Virginia Tech in the second, Virginia Commonwealth in the third, and Old Dominion in the fourth.

State Students Are Getting Their Money's Worth

Seven Virginia colleges and universities were rated "best buys" in *Money* magazine's annual college guide ranking 100 schools. UVa was No. 18; Mary Washington College, No. 30; Washington and Lee, No. 53; James Madison, No. 54; Emory and Henry, No. 58; William and Mary, No. 77; and Virginia Tech, No. 82.

UVa Makes New Rules on How Foundations Operate

Burned by scandal involving an athletic foundation, UVa's Board of Visitors adopted new rules to give itself oversight and some control over the university's many—and wealthy—private foundations. The policy says the foundations will undergo annual independent financial audits with reports available to the UVa president, include two university administrators as voting members on all foundation boards, give the president advance notice of real estate purchases and financing, allow board approval of some new business and investment ventures conducted in UVa's name, disclose salaries and perks for executive staff, and avoid conflicts of interests.

VCU Report Declares Its Buildings Fire Hazards

Virginia Commonwealth University is asking for an emergency state appropriation of \$9.78 million for sprinkler and other fire-safety systems in 50 buildings, and fire alarms and smoke-detection systems in 15. Many buildings on the urban campus, built for uses other than education, are grandfathered under other fire codes. However, the university feels they represent a safety hazard for employees and students.

State Considers Hiring Review for College Presidents

State secretary of education James W. Dyke, Jr., has instructed state education governing boards that the institutions' faculty-hiring record of women and minorities should be an evaluation criteria for salary increases and benefits for their presidents. According to the *Richmond Times-Dispatch*, Dyke says, "The burden is now on the institutions—their presidents and boards—to support efforts to prepare even more potential candidates and then aggressively recruit and hire qualified applicants."

Sun and Fun—A University in Virginia Beach

The City of Virginia Beach donated 35 acres to Old Dominion and Norfolk State universities to build a joint satellite campus, giving Virginia's most populous city its first public-university site. Both schools are located in neighboring Norfolk. ODU and NSU will ask the General Assembly for planning money and hope to open the first building for the campus in 1998.

UVa Students Who Live Together, Learn Together

The 516 students in UVa's New College get learning with their living. The residential college, based on the British model, offers a community environment with common meals, seminars, lectures, and social events. It also offers dorm rooms wired into UVa's computer network, a dining room-with-a-view, and interaction with fellow students and faculty members. Students are required to eat together at Sunday brunch and dinner Sunday through Thursday. This fall a series of events focuses on the sixties. Author and Vietnam vet Tim O'Brien is offering a lecture and a writing workshop, and students have assigned reading on the war and social movements of the era. Also living at the college are New College principal Melvin Chernoff, two faculty members who serve as directors of studies, and two additional faculty members. This is UVa's second residential college.

Will College Histories Become Best-sellers?

With its 300th anniversary just around the corner, the College of William and Mary has published *Traditions, Myths & Memories: Celebrating the Tercentenary of The College of William and Mary in Virginia*, by Wilford Kale. Not to be outdone, Roanoke College is the subject of *Dear Old Roanoke*, by Mark F. Miller. In case you missed it, Virginius Dabney wrote *Virginia Commonwealth University: A Sesquicentennial History* in 1988.

People...

Civil-rights leader Julian Bond will join UVa's Corcoran Department of History in January. His plan includes establishing an oral history program. Virginia State University named its provost, Nathanael Pollard, Jr., as acting president after the removal of president Wesley McClure.

The Mason Gazette

The *Mason Gazette*, the newspaper for the faculty and staff of George Mason University, is published by the Office of University Publications, Joan K. Ziembra, director.

Editor: Joan K. Ziembra

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Photography: Neil Adams

People Section: Martha Atkinson

Business Manager: Nancy Woolever

Submissions may be sent to Suite D217, Mason Hall.

*Centers and Institutes***University Institutes**

Institute of the Arts. Makes the arts an intrinsic part of all students' university experience by sponsoring professional performances in opera, music, dance, and theater. A key element is artists-and-companies-in-residence. Director Sarah Lawless, D9 Mason Hall, x8877.

Center for the Arts. Spaces include the Concert Hall, a 2,000-seat theater where 30 to 40 international artists and organizations are presented each year; Harris Theater, a 550-seat proscenium theater; TheaterSpace, a 150-seat studio theater; a dance studio; classrooms; and rehearsal halls.

Theater of the First Amendment. Produces plays by both new and established playwrights as the university's professional theater company. Enables students to witness play development through staged readings, workshops, and lectures. Artistic director Richard S. Davis, A407 Performing Arts Building, x2192.

Center for Government, Society, and the Arts. Focuses on the culture and politics of the 1930s and coordinates exhibits and discussions of the Federal Theatre Project. Houses the FTP archival collection, on deposit from the Library of Congress, including original stage and radio production scripts, posters, stage and costume designs, and photographs of theater productions. Publishes a newsletter, *Federal One*. Director Lorraine Brown, A407 Performing Arts Building, x2799.

International Institute. Develops and administers the university's international activities, including lectures by foreign scholars and officials. Offers a master's program in international transactions. Director John H. Moore, Quincy Street Station, Arlington Campus, x8200.

Center for European Community Studies. Appointed a European Documentation Center by the Commission of European Communities, it is the only center in the United States that provides information on services, regulations, and legal questions related to the European Community (EC). Conducts research and offers courses on the EC. Director Desmond Dinan, Quincy Street Station, Arlington Campus, x8200.

The Institute of Public Policy. Focuses on both training and multidisciplinary research, with an emphasis on the interface between the public and private sectors. Offers a Ph.D. program with specialization in public policy management, science and technology policy, and regional development policy. Director Kingsley Haynes, Pohick Module, x2280.

Center for Transportation and Land Policy. Applies information technology to practical transportation system management in both supply and demand situations related to public policy issues. Director Elly Doyle, Alumni House, x3351.

Citizens' Applied Research Institute. Works with Northern Virginia government, industry, and civic organizations to stimulate interest in regional research. Director Donald Gantz, 151 Science and Technology Building II, x1695.

Institute for Advanced Study in the Integrative Sciences (IASIS). Develops and tests a new science of generic design that manages the complexity of the invasive systems that support, constrain, and threaten our lives without creating "hazard gaps" (gaps between implementation of information systems and the users' knowledge). An "IASIS File," containing hundreds of research papers, application studies, and documentary videotapes, is in a Fenwick Library reserve collection. Director John N. Warfield, North Physical Education Module, x2994.

Institute for Computational Sciences and Informatics (CSI). Combines research in the sciences such as biology, chemistry, mathematics, and physics from the College of Arts and Sciences with research in the School of Information Technology and Engineering. Strong connections are being developed with local industry and the federal government. Offers a Ph.D. program in computational sciences and informatics. Directors John Hodge, Menas Kafatos, and Edward Wegman, 116 Science and Technology Building I, x1990.

Institute for Conflict Analysis and Resolution. Offers advanced-degree programs in conflict analysis and resolution, including the nation's first doctoral program, to develop theories of conflict sources, escalation, and resolution that can be of practical use in the field; and to train professional intervenors for resolving disputes at all levels of society. Its outreach programs put it in contact with conflict-resolution programs throughout this country and around the world. Director Christopher R. Mitchell, 118 Academic Module, x1300.

Prince William Institute. Provides creative programs of instruction, research, and public service, pioneering new models of instruction, academic community, and delivery of student services. Currently offers a school-based master's in education, a master's in public administration, and an accelerated baccalaureate in nursing. Director James W. Fonseca, 7946 Donegan Drive, Manassas, VA 22110, (703) 330-5781.

Other Academic Institutes and Centers**Office of the Provost**

Center for Community College Education. Offers a doctoral program in community-college education to prepare the next generation of community-college faculty and to further the education of those already teaching in community colleges. Director Gustavo A. Mellander, 221 Thompson Hall, x2311.

Center for Health Promotion. Sponsors health and fitness programs for community residents, including exercise for senior citizens, consultations, classes, and workshops on AIDS, substance abuse, nutrition, and stress management. Director Robert O. Ruhling, 204 Physical Education Building, x2060.

Center for Recreation Resources Policy. Sponsors research and training for national and local natural resource agencies and conducts an annual training symposium. Director Brett A. Wright, 212B Physical Education Building, x2064.

Executive Vice President for Finance and Planning

Center for Outdoor Education. Provides cooperative education and overnight retreat facilities, as well as nature education programs and recreational opportunities, to school systems, corporations, and church and community groups. It serves as the university's outdoor education campus and is located at Hemlock Overlook, which also manages Bull Run Marina Regional Park. Director Warren Doyle, 206B Student Union I, x2059.

Executive Vice President for Administration

Northern Virginia Institute. Promotes the economic viability of the Northern Virginia region through involvement of the corporate community in areas ranging from economic development to governmental assistance to public policy implementation. Executive director Florine R. Graham, D111 Mason Hall, x8758.

Entrepreneurship Center. Promotes the success of small and emerging companies based on doing business in Virginia. Includes the Incubator Program and Virginia Space Business Incubator, Northern Virginia Small Business Development Center, Procurement Technical Assistance Program (PTAP), and Program to Research and Implement Minority Exports (PRIME II). Director John W. O'Malley, 7960 Donegan Drive, Building B, Sudley North, Manassas, VA 22110, (703) 330-5091.

Provost and Executive Vice President for Administration

Women's Studies Research and Resource Center. Supports faculty and staff proposals and research on the topics of sex and gender. Organizes workshops, lectures, and other activities on

topics relevant to student life and on issues of concern to women. Complementary to the Women's Studies Program. Director Karen Rosenblum, 206A Student Union I, x2896.

College of Arts and Sciences

Center for Applications of Mathematics. Builds a bridge between industry and academia that creates joint research and produces a series of experimental advanced courses in applied mathematics. Affiliated with the Department of Mathematical Sciences. Director Daniele C. Struppa, 203 Science and Technology Building I, x1463.

Center for Basic and Applied Science. Focuses on solving environmental and related problems such as a regional survey of radon in homes, geochemical rock analyses, and liquefaction of Virginia coal. Affiliated with the Department of Geography and Earth Systems Science. Director Douglas Mose, 2085 King Hall, x1209.

Center for Behavioral and Cognitive Studies. Conducts basic and applied research on leadership and management topics in areas related to the development of human resources and the enhancement of human performance. Affiliated with the Department of Psychology. Director Edwin Fleishman, 3066 King Hall, x1356.

Center for Economic Education. Helps precollege educators (K-12) across Northern Virginia to introduce economic thinking into their curricula. Focuses on teacher training; provides conferences, seminars, and classes; and offers a variety of resources, both print and electronic. Director W. Mark Crain, 8356 Robinson Hall, x1140.

Center for Global Market Studies. Examines and discusses issues arising from the dramatic and increasing integration of international markets of all kinds, including financial, commodity, service, and manufactured goods. Director Manuel H. Johnson, Victoria Square (10385 Main Street, Suite 200), Fairfax, (703) 934-1576.

Center for the Study of Market Processes. Promotes education and research in the market economy, especially in the methodology of the Austrian School of economic thought. Publishes a scholarly newsletter, *Praxis*, and is affiliated with the Program of Social and Organizational Learning. Director Jack High, Victoria Square (10385 Main Street, Suite 200), Fairfax, (703) 934-1568.

Center for Study of Public Choice. Applies scientific methods to the "public choice behavior" of voters and other political groups. Supports programs of education/research in public-choice theory and formulates relevant proposals for basic institutional or constitutional reforms based on such research. Founded on Nobel laureate James Buchanan's work in the Department of Economics. Director Robert Tollison, St. George's Hall, x2328.

Indochina Institute. Serves as a clearinghouse for information and research on Indochina and its refugees, and sponsors conferences and workshops. Affiliated with the Department of Public Affairs. Director Nguyen Manh Hung, A215 Robinson Hall, x1403.

Northern Virginia Survey Research Laboratory. Conducts surveys of the Northern Virginia region, the state, and the nation, focusing on a diversity of issues, including technology and the environment, and provides expertise in research methodology for faculty and staff. Affiliated with the Department of Sociology and Anthropology. Directors Gregory Guagnano and Thomas Dietz, B310 Robinson Hall, x1445.

Center for Instructional Software in Astronomy and Physics. Develops high-quality instructional software for college-level courses in astronomy and physics. Director Robert Ehrlich, 303 Science and Technology Building I, x1268.

Shared Research Instrumentation Facility (SRIF). Provides a laboratory environment that supports the research and teaching of faculty and students. Active in collaborative and contract research that supports the university's continuing involvement in the Northern Virginia community. Major instrumentation includes electron microscopes, gas chromatographs/mass spectrometers, high-performance liquid chromatographs, and capillary electrophoresis. Director Vikas Chandhoke, 1021 King Hall, x1028.

School of Business Administration

Center for Business Expert Systems Research. Focuses on information requirements analysis, knowledge acquisition methodologies, knowledge representation techniques, and the design, development, implementation, and maintenance of expert systems for managerial application. Director Stephen Ruth, B463 Robinson Hall, x1789.

Center for the Study of International Technologies. Conducts research aimed at a better understanding of factors, conditions, and environments that affect the development, adoption, and transfer of technology in Europe and the Pacific Rim and the implications of these findings for American business. Focuses on research, development, and commercialization of manufacturing and information technologies. Director Evan Anderson, B465 Robinson Hall, x1780.

International Center for Applied Studies in Management Information Systems. Works actively with foreign governments, businesses, and universities to apply low-unit-cost information technologies to projects that achieve rapid results and significantly high yields. Grant-supported activity includes offering value-added network services to potential users of academic and other data communications networks in Eastern Europe and Latin America. Director Stephen Ruth, B463 Robinson Hall, x1789.

Graduate School of Education

Center for Applied Research and Development in Education (CARD). Establishes networks and develops projects from a range of funding sources as a collaboration between George Mason's Graduate School of Education and school divisions in Northern Virginia. Director Hugh Sockett, 101 Commerce II Building, x2290.

Center for Bilingual/Multicultural/ESL Teacher Preparation. Prepares teachers and school administrators to serve culturally and linguistically diverse students. Trains bilingual doctoral students and bilingual English-as-a-Second-Language (ESL) teachers for public schools, personnel for American schools overseas in cooperation with the U.S. Department of State, and bilingual immersion teachers to teach foreign languages to English-speaking elementary students; and conducts the George Mason University Language Minority project for the Training, Development, and Improvement program for George Mason and other universities nationwide. Cooperating departments are Foreign Languages and Literatures and English. Director Harold Chu, A451 Robinson Hall, x3688.

Center for Human Disabilities. Holds activities designed to improve the lives and productivity of persons with disabilities by working with all colleges and departments to develop products, services, and lifelong programs for persons with disabilities. Director Michael Behrman, Commerce II Building, x3670.

First Liberty Institute. Promotes a new curriculum that introduces concepts of religious pluralism in social studies lessons for upper elementary, junior high, and high school students, and serves as a national training and resource center for teaching principles of religious freedom. Director Charles C. Haynes, 105 Commerce II Building, 352-9752.

Center for Interactive Educational Technology. Promotes research, development, implementation, and evaluation of advanced technology in education and training. Director Chris Dede, A350 Robinson Hall, x2019.

Educational Study Center. Provides a community-service setting for clinical experience and research to graduate students in the Graduate School of Education's reading, special education, and guidance/counseling programs. Coordinator Barbara Given, A353 Robinson Hall, x2044.

Institute for Educational Transformation (IET). Promotes comprehensive transformation of educational systems that contribute to the reconstruction of public policy in education. Establishes partnerships among business and industry, school divisions, and the university, focusing on the Manassas/Prince William area. Co-chairmen Hugh Sockett and William Purple, 100 Commerce II Building, x2290.

Leadership Academy. Assesses the administrative skills of prospective public school principals in Northern Virginia and District of Columbia school systems and provides leadership development training. Director David Lepard, 109 Commerce II Building, x3633.

School of Information Technology and Engineering

Center for Artificial Intelligence Research. Conducts basic and experimental research on fundamental problems of artificial intelligence and cognitive science, such as machine learning and inference, cognitive models of human plausible reasoning, computer vision, second-generation expert systems, and intelligent autonomous robots. Director Ryzsard Michalski, 441 Science and Technology Building II, x1719.

Center for Computational Statistics and Probability. Focuses on the relationship between statistical science and computing science. Director Edward Wegman, 159 Science and Technology Building II, x1691.

Center for Image Analysis. Undertakes research in the areas of computer vision and image processing. Current work includes the development of a parallel-image-understanding algorithm on an Intel Hypercube. Director Arun Sood, 442 Science and Technology Building II, x1536.

Center for Parallel Computation. Provides a dedicated environment for developing, understanding, and using multiprocessor systems. Director Pearl Wang, 432 Science and Technology Building II, x1530.

Center for Robotics and Control. Conducts research in robotics control, path planning, computational methods for control, system simulation methodology, and computer-aided control system design. Director Janos Gertler, 259 Science and Technology Building II, x1604.

Center for Secure Information Systems. Provides a dedicated environment to encourage the development of expertise in both theoretical and applied areas of information systems security. Director Sushil Jajodia, 459 Science and Technology Building II, x1653.

Center for Software Systems Engineering. Focuses on research involving the technical and managerial aspects of analysis, design, implementation, and modification of complex computer-software systems. Complementary to master's and Ph.D. in information technology. Director James Palmer, 169 Science and Technology Building II, x3684.

Center for the Study of Regional Mobility. Conducts research on issues related to traffic congestion and land use. Works with a consortium of national organizations to study regional mobility issues and provide information to the public. Director James Palmer, 169 Science and Technology Building II, x3684.

Center of Excellence in Command, Control, Communications, and Intelligence (C³I). Performs research in data fusion, command decision-making theory, communications, simulations, and C³I systems engineering. Offers programs/communication between large and small companies. Nation's first university-based, comprehensive technology development program. Director Harry Van Trees, 330 Science and Technology Building II, x1510.

School of Law

Law and Economics Center (LEC). Demonstrates the applicability of economic scholarship to legal policy and to the substance and procedures of law. Offers residential programs for federal judges, law professors, and academic economists. Director Richard Fielding, 206 Arlington Campus, x8023.

School of Nursing

Center for Health Care Policy. Provides a forum for the generation and examination of health policies that meet the challenges facing the health-care delivery system of the United States and other nations. Director Hazel Johnson-Brown, A357 Robinson Hall, x1930.

Other George Mason Programs and Projects

English Language Institute. Provides non-native speakers of English intensive noncredit English instruction as a preparation for enrollment in higher institutions; also provides work-site instruction for community businesses. Director Kathryn Trump, 26 Pohick Module, x3660.

National Policy Board for Educational Administration. Works to create a national certification process for school principals and superintendents. Is developing performance standards and criteria for national certification, and intends to establish a national certification board to begin operating in 1994. Director Scott D. Thompson, 110 Commerce II Building, x3642.

Northern Virginia Mediation Service. Helps mediate interpersonal conflicts by using impartial third parties who are trained volunteers. Director Ramona Buck, 113 Academic Module, x3656.

Institute for Cross-Cultural Understanding. Promotes research and publications on the ways people from different cultures can understand one another despite linguistic, ethnic, and cultural boundaries. Director Tom Williams, B315 Robinson Hall, x1449.

Krasnow Institute for Advanced Study. Intends to bring eminent scholars from around the world to a center to be built at George Mason University. Board chairman Mark P. Friedlander, Jr., (703) 525-6750.

Psychological Clinic. Provides the campus and Northern Virginia community with psychological assessment and psychotherapy services by faculty and graduate students under professional supervision. Director Manuel Gerton, 10808 Kelley Drive, x1370.

Technical Assistance Center. Provides programs and resources for preschool handicapped children, and for children and adolescents who are severely mentally and/or physically disabled, deaf, and/or blind. Director Rebecca Anderson, Commerce II Building, x3668.

The Writing Center. Assists students, faculty, and staff of the university with writing projects and assignments on an individual or small workshop basis. Director Wilkie Leith, A116 Robinson Hall, x1168.

Northern Virginia Writing Project. Represents a statewide effort to improve the writing of all students in kindergarten through the university level. Offers an intensive summer program for teachers. Director Donald Gallehr, A409 Robinson Hall, x1168.

Small Business Institute (SBI). Provides intensive management assistance to small businesses by teams of graduate and undergraduate business students, with faculty supervision. Consults with businesses to identify problems or opportunities, resulting in a comprehensive, written report. Director Bill Schulte, B377D Robinson Hall, x1823.

Center and Institute Directory

Director	Telephone
Center for Applications of Mathematics, Daniele C. Struppa	1463
Center for Applied Research and Development in Education (CARD), Hugh Sockett	2290
Center for Artificial Intelligence Research, Ryzsard Michalski	1719
Center for the Arts (see Institute of the Arts)	
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Center for Business Expert Systems Research, Stephen Ruth	1789
Center for Community College Education, Gustavo A. Mellander	2311
Center for Computational Statistics and Probability, Edward Wegman	1691
Center for Economic Education, W. Mark Crain	1140
Center for European Community Studies, Desmond Dinan	8200
Center of Excellence in Command, Control, Communications, and Intelligence (C ³ I), Harry Van Trees	1510
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Center for Health Care Policy, Hazel Johnson-Brown	1930
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Center for Parallel Computation, Pearl Wang	1530
Center for Recreation Resources Policy, Brett A. Wright	2064
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Center for Secure Information Systems, Sushil Jajodia	1653
Center for Software Systems Engineering, James Palmer	3684
Center for the Study of International Technologies, Evan Anderson	1780
Center for the Study of Market Processes, Jack High	934-1568
Center for Study of Public Choice, Robert Tollison	2328
Center for the Study of Regional Mobility, James Palmer	3684
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Citizens' Applied Research Institute, Donald Gantz	1695
Educational Study Center, Barbara Given	2044
English Language Institute, Kathryn Trump	3660
Entrepreneurship Center, John W. O'Malley	(703) 330-5091
First Liberty Institute, Charles C. Haynes	352-9752
Indochina Institute, Nguyen Manh Hung	1403
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Women's Studies Research and Resource Center, Karen Rosenblum	2896
The Writing Center, Wilkie Leith	1168

CSI Integrates Scientific Research, Computing Technology

By J. Kenneth Townsend

The Institute for Computational Sciences and Informatics (CSI) has been experiencing birthing pangs for two years, and this fall its unique new doctoral program finally arrived.

If the vision of its three directors—Menas Kafatos, Edward Wegman, and John Hodge—holds true, CSI will grow into a world-renowned degree-offering institute within the next five years.

In addition to its doctoral program, the institute coordinates research in a wide variety of scientific fields, with a strong emphasis in computing. One of CSI's goals is to make George Mason University "a leader in the new world of interdisciplinary computational sciences," says Kafatos, director for Science and Academic Programs.

George Mason and CSI have caught the attention of the Association of Universities for Research in Astronomy (AURA). Kafatos has been invited by AURA to apply for membership on behalf of the university.

One of the most exclusive professional associations in the country, AURA presently has 23 member institutions, including Harvard, Yale, and Princeton universities, Massachusetts Institute of Technology, and the University of Texas, University of Illinois, and University of California.

AURA's invitation was based on CSI's doctoral program in computational sciences and informatics, and the university's commitment to astronomy education and research at both the undergraduate and graduate levels, according to Kafatos.

By joining, George Mason can play an important role in the running of AURA's great observatories. These include the National Optical Astronomy Observatories for the National Science Foundation and the Space Telescope Science Institute for NASA, as well as Kitt Peak National Observatory in Arizona, the Cerro Tololo Inter-American Observatory in Chile, and the National Solar Observatory in New Mexico.

The rationale behind CSI is the growth of computational sciences over the last 40 years. "Computing is more than just a tool. It provides insight and understanding that theory or experimentation cannot," according to the directors.

New computing systems allow scientists to expand their research activities both conceptually and quantitatively. Today's computers also increase the speed of calculations and the capacity for modeling and simulation of complex physical systems that were intractable two decades ago, they continue.

The institute is setting out to develop new approaches to scientific research based on evolving computational technology; serve as a higher education facility designed to train the best young minds in a new way of conducting science; become a focal point to attract distinguished visiting scholars; combine the best capabilities in computational sciences from academia, federal laboratories, and industry; and build an excellent reputation for the university and the state for community involvement.

In the Beginning

When he first proposed CSI to the university's Board of Visitors in 1990, Kafatos explained that the institute combines research from the natural sciences and mathematics departments in the College of Arts and Sciences (CAS) with engineering and statistics departments in the School of Information Technology and Engineering (SITE).

He told the BOV that with the launching of the Hubble Space Telescope, research in the space sciences has become crucial. "A new era of data collection from space has been initiated. The nineties is a period of new horizons for astronomy and space sciences in general," he explained.

Plus, he said, the institute's formation was also timely in light of developments in computational capability over the last two years, such as in the technologies of supercomputers and parallel processing. "These developments offer unique opportunities for data acquisition, physical simulation, and theoretical interpretation, which can be applied in other areas of science," he said.

Together with Wegman, director for Computational Systems, and Hodge, director for Administration and Industry, Kafatos has defined a number of goals for building CSI.

These include recruiting students and new faculty, installing computational facilities,



Directing the Institute for Computational Sciences and Informatics are, from left, John Hodge, Menas Kafatos, and Edward Wegman.

acquiring a major parallel computer, preparing interdisciplinary research projects in environmental and global changes, preparing a proposal for an industrial lab, and planning for industrial short courses.

In addition to AURA, the institute has been awarded membership in the Research Consortium, which comprises industrial, government, and academic users; hardware and software vendors; software vendors; network suppliers; and service organizations.

The consortium provides forums for discussing key issues affecting users and vendors of high-performance computing equipment and services. The program covers North America, Eastern and Western Europe, and Japan.

The Doctoral Program

CSI's new doctoral program "recognizes that computational science has grown to equal footing with theory and experimentation in the pursuit of knowledge," says Kafatos. The program, which was ratified by the State Council of Higher Education for Virginia in July 1991, has evolved into seven interdisciplinary tracks with about 70 students admitted to the program this fall.

The Ph.D. in computational sciences and informatics focuses on a number of specialty areas, such as bioinformatics, computational mathematics, computational physics, space sciences, computational statistics, computational chemistry, and earth systems and global changes.

The degree program has three parts: a common computational sciences core, specialty tracks of computationally intensive courses, and doctoral research. The many specialty tracks allow students to use new techniques in computing in areas of particular interest to them.

"Every student has slightly different needs and abilities. Some are stronger in computation, others in science. This can be a very individualized program," says Hodge.

Students with undergraduate degrees need 72 credit hours to complete their doctoral requirements; the number of credit hours is reduced for CSI students having graduate degrees, but they must participate in weekly meetings with CSI faculty. Students also attend CSI colloquia in fields other than their specialization.

Within the university, there is "a lot of pent-up demand" for the CSI doctoral program by students in the CAS master's-degree programs and in the SITE statistics programs, says Hodge.

The "prime requisites" for admitting students to CSI are "quality, curiosity, adaptability," he continues. "Students should have a broad interdisciplinary background, since there is a lot of cross-fertilization among elective courses."

The Institute

The institute's core faculty comes largely from CAS and SITE. Faculty are also drawn from distinguished visitors, long-term part-time appointments, and adjuncts from industry and

government.

Along with its academic programs, the institute has garnered grants, contracts, and appropriations totaling more than \$2 million from the Center for Innovative Technology, Office of Naval Research, the National Science Foundation, NASA, and others. A proposal for an industrial laboratory has been drafted, and CSI directors have developed relationships with government and industry liaisons.

The institute is planning many technical activities, such as intelligent data and information acquisition, storage, retrieval, and communication; high-performance numerical and symbolic computation; large-scale physical simulation; and visualization.

Proposed research projects, a large component of CSI's mission, include nonroutine scientific reduction of laboratory and space data; physical modeling, simulation, interpretation, and development of theories; providing a users' facility and a research facility for scientists from local industry and federal laboratories for data analysis; and computationally intensive work in associated areas of engineering, natural sciences, mathematics, and statistics.

The "link" between the degree program and CSI's many projects "is the heavy use of computers for education and research," says Kafatos.

Presently, CSI has more than 40 state-of-the-art workstations, including 23 set up in an instructional laboratory in Science and Technology I.

The institute is networked with systems available in the Physics Department, the Center for Computational Statistics, and other academic units. Electronic access is also available with government agencies such as NASA.

George Mason's proximity to such national research facilities as the National Institutes of Health, Naval Research Laboratory, and NASA/Goddard Space Flight Center and Space Station will enable the university to serve as a research facility for scientists from local industry and federal laboratories, says Kafatos.

CSI has also formed an advisory board, comprising senior officials from local industry and government, such as NASA, the Naval Research Laboratory, MITRE Corporation, and others. This board addresses such issues as the institute's structure and its associated centers, research directions, the doctoral program, and long-term relations between the university and industry and government labs.

CSI agrees with, and wants to be identified with, George Mason's emphasis on nontraditional approaches to education and community interaction, says Wegman. "Programs in other schools are very good, but CSI brings an alternative, highly interdisciplinary approach to computational sciences that doesn't exist anywhere else," he explains.

The People

Kafatos, Wegman, and Hodge, as co-directors,

are the team that created and lead CSI.

Kafatos, who received his Ph.D. in physics from MIT in 1972, has been with George Mason's Physics Department since 1975. He was promoted to full professor in 1984, and served as the department's acting chairperson from 1989 to 1991. His fields are theoretical astrophysics, space sciences and astronomy, foundations of quantum theory, and visualization of space sciences and global changes data.

He has done consulting work with NASA's Goddard Space Flight Center, and for the National Geographic Society and Time-Life Books. Kafatos has also taught courses on cosmology, the history of science, and foundation of quantum theory for the Smithsonian Institution's Resident Associate Program.

Among his publications are eight books, most recently *Looking in Seeing Out: Consciousness and Cosmos* (Theosophical Publishing House, 1991), and *The Conscious Universe: Part and Whole in Modern Physical Theory* (Springer-Verlag Publishers, 1990).

Wegman, Dunn Professor of Information Technology and Applied Statistics, has an extensive background in theoretical statistics and computing technology. He received his Ph.D. in mathematical statistics from the University of Iowa in 1968, and subsequently spent 10 years teaching at the University of North Carolina.

In 1978, he went to the Office of Naval Research, where he was head of the Mathematical Sciences Division. In this role, he had responsibility navy-wide for basic research programs in applied mathematics, statistics and probability, systems theory, operations research, discrete mathematics, communication theory, and numerical analysis and computational architectures. During this time, he coined the phrase "computational statistics" and developed a high-profile research area around this concept.

He was also the originator of the \$25-million program in ultra-high-speed computing at the Strategic Defense Initiative's Innovative Science and Technology Office (Star Wars Program). There he was responsible for programs in software-development tools, highly parallel architectures, and optical computing.

In 1986, after he joined the university, Wegman launched the Center for Computational Statistics and developed the M.S. in statistical science degree program.

Hodge has 43 years of aerospace, space, and transportation experience, with senior-management positions in government and industry. Since November 1986, he has served as president of J.D. Hodge and Company, which provides consultant services in the aerospace and high-technology fields for a client base that includes major corporations in the United States and overseas.

He has also served in a variety of executive positions with the Office of Space Station at NASA Headquarters, where he supervised such key areas as operations, management, cost accounting and sharing, operational facilities, use of automation and robotics, safety, international operations, and other budgeting and acquisition duties.

Hodge's career experience includes management positions with the U.S. Department of Transportation, the Urban Transportation Development Corporation in Canada, the NASA Manned Spacecraft Center/Johnson Space Center (where he was flight supervisor for the initial Project Mercury flights), and with the private sector in Canada and Great Britain.

In addition, Hodge has received 18 honors and awards, including an honorary doctorate from City University, London, England.

The three directors and faculty associated with CSI have taken on many tasks to get the institute up-and-running, says Hodge. Many hours have been spent in the planning process, for both short- and long-term goals.

"We try to blend with the planning process every opportunity that comes up, such as revisiting the university's computing environment and developing joint research proposals with government and private industry," Wegman says.

Adds Hodge, "If there's any obstacle to building CSI, it's success. If student demand increases, and more faculty and research projects are added, we're going to need more space and more powerful computational systems. But these are the best kinds of problems to have."

Honors

Robert P. Davidow, School of Law, assumed the presidency to the Board of Directors of Offender Aid and Restoration, Fairfax, Virginia.

Torbjorn L. Knutsen, Public Affairs, won a research fellowship with the Nobel Institute in Oslo, Norway, and has a one-year leave of absence from the university to design the International Relations component for a new program in Political Science with the University of Trondheim, Norway.

Henry G. Manne, School of Law, served as Koch Distinguished Professor in Law and Economics at the University of Kansas in Lawrence, Kansas.

Mark A. Spikell, Graduate School of Education, was elected President of the Association of Mathematics Teacher Educators (AMTE).

Promotion and Tenure

Promotions

Warren Decker, Communication, promoted to full professor.

Publications

Robert A. Anthony, School of Law, wrote an article, "Well, You Want the Permit, Don't You?—Agency Efforts to Make Nonlegislative Documents Bind the Public," which was published in *Administrative Law Review*.

Joseph E. Broadus, School of Law, wrote an article, "Organ Donor Programs in Kreonic Suspension at Family Burial Rites," was published in *Current Perspectives on Psychological, Legal and Ethical Issues*.

Benjamin J. Broome, Communication, published "Guidelines for Computer-Assisted Group Problem Solving: Meeting the Challenges of Complex Issues," in *Small Group Research*, Vol. 23, No. 2, May 1992.

Lawrence Butler, Art and Art History, published an essay, "Hagia Sophia's Navy Cornices as Elements of its Design and Structure," in the book *Hagia Sophia from the Age of Justinian to the Present*.

Alan Chuse, English, had a republication of *The Tennessee Waltz and Other Stories*.

John L. Costello, School of Law, had two articles published: "Summary Denials of Relief Under Procedural Rules of Preclusion are Deprivations of Due Process of Law" in *George Mason University Civil Rights Law Journal* and "In Favor of Second Bites at the Apples: Attacking Final Judgments in Virginia" in *Virginia Bar Association Journal*.

Edward J. Damich, School of Law, published an article "U.S. Foreign Policy and the Break-Up of Yugoslavia" in *Terra Nova* (under the name of Tia Pausic).

Robert P. Davidow, School of Law, wrote an article "The Death Penalty and Due Process" published in the *George Mason University Civil Rights Law Journal*.

William A. DiMichele and **Judith E. Skog**, Biology, organized *Annals of the Missouri Botanical Garden*, jointly sponsored by the Paleobotanical Society of America and the American Fern Society, containing papers from a symposium on the Lycopsidea.

Carl Ernst, Biology, had a reference book, *Venomous Reptiles of North America*, published.

Jayne Hart, Biology, cowrote an article with doctors from the Uniformed Services University of the Health Sciences in Bethesda, Maryland. "Neurovascular Effects of Reactive Oxygen Intermediate Produced by Photoradiation" was published in *Neuropharmacology*.

Hugh Heclo, Public Affairs, published two papers, "America's Welfare Legacy" in *The World and I* and "What Has Happened to the Separation of Powers?" for the Ashbrook Center for Public Affairs, and a newspaper article, "Clinton's New Task," *Atlanta Journal and Constitution*.

Chris Jones, Biology, published "Spatial, Seasonal, and Interannual Patterns in the Phytoplankton Communities of a Tidal Fresh Water Ecosystem" in the *Virginia Journal of Science*.

Deborah Kaplan, English, published the book *Jane Austen Among Women*.

William E. Kovacic, School of Law, published the following articles: "The Influence of Economics on Antitrust Law" in *Economic Inquiry*, and "Regulatory Controls as Barriers to Entry in Government Procurement" in *Policy Sciences*. His "Bibliography of Recent Academic Scholarship" appears quarterly in the *Public Contract Newsletter* of the American Bar Association's Section of Public Contract Law.

Thelma Z. Lavine, Robinson Professor of Philosophy and American Culture, published a

bibliographical sketch of philosopher Albert Balz for *Dictionary of Virginia Biography* and the presidential message in *Society for the Advancement of American Philosophy Newsletter*.

Cynthia M. Lont, Communication, published two chapters: "A Feminist Critique of Mass Communication Theory" in Nancy Wyatt and Sheryl Bowen's *Transforming Visions: Feminist Critiques in Communication Studies* and "Women's Music: No Longer a Small Private Party" in Reebee Garofalo's *Rockin' the Boat: Mass Music and Mass Movements*.

Torbjorn L. Knutsen, Public Affairs, published the book *A History of International Relations Theory* and an article, "The Reagan Doctrine and the Lessons of the Afghan War," in *The Australian Journal of Politics and History*.

Bruce H. Kobayashi, School of Law, wrote an article with John Lott, "Low Probability-High Penalty Enforcement Strategies and the Efficient Operation of the Plea Bargaining System," which appeared in the February 1992 issue of *International Review of Law and Economics*.

Henry G. Manne, School of Law, had a paper, "Economic Mysteries in Insider Trading," published by the Europe Institute of Universitate des Saarlands.

Harold Morowitz, Robinson Professor of Biology and Natural Philosophy, published two books, *Beginnings of Cellular Life: Metabolism Recapitulates Biogenesis* and *The Facts of Life: Science and the Abortion Controversy*, cowritten with Robinson Professor **James Trefil**.

Larry E. Ribstein, School of Law, published "The Deregulation of Limited Liability and the Death of Partnership" in the *Washington University Law Quarterly*; "Corporate Political Speech" in a special issue of the *Washington & Lee Law Review* honoring Justice Powell; "Private Ordering and the Securities Laws: The Case of General Partnerships" in the *Case Western Law Review*; and "Limited Liability Companies: A Study of the Emerging Entity" in the *Business Lawyer*.

Jeffrey Schwamm, Human Services, cowrote

an article published in *Child Welfare*, "Expanding Eligibility for SSI Based on Childhood Disability: The Zabley Decision."

Al Sherald, Biology, had an article published as a special educational feature in *One Thousand Magazine*, "Writing BASIC Programs for Children."

Judith Skog, Biology, cowrote a paper with C. Hill (British Museum) on "Mesozoic Herbaceous Lycopsidea," which appeared in the *Annual of the Missouri Botanical Garden*.

Mark A. Spikell, Graduate School of Education, has published a text, *Teaching Mathematics with Manipulations*.

Valery N. Soyfer, Robinson Professor of Biology and History of Science, published an article, "Photofootprinting of Inter- and Intramolecular DNA Triplexes" in the volume *Structure and Function of Nucleic Acids*.

James Trefil, Physics, wrote a book review, for the *New York Times* on *Mapping the Next Millennium*.

Scott C. Whitney, School of Law, published an article, "The Demise of Limited Liability of Parent and Successor Corporations Under Superfund," in the March 1992 issue of *Hofstra Property Law Journal*.

David K. Wiggins, Human Services, published an article "The Year of Awakening: Black Athletes, Racial Unrest, and Civil Rights Movement of 1968" in *The International Journal of the History of Sport*.

Grants

David Anderson, Center for Health Promotion, received a grant, *Substance Abuse Community Needs Assessment*, \$2,000, from Washington County Health Department. **Anderson** and **Gayle Hamilton** received two grants, *The Schools in Partnership Initiative-Year 2*, \$162,631 and \$38,000, U.S. Department of Education.

Ravindra Athale, C³I Center and Electrical and Computer Engineering, received a grant, *Devices and Modules for Optical Computing*

and *Processing*, \$100,000, U. S. Army/Harry Diamond Laboratories and extension of the grant period, *Optical Residue Processing Module*, BDM International, Inc.

Ralph Barocas, Psychology, received a grant, *Clinical Psychology Graduate Student Support*, \$30,992, for the support of two graduate students, The Alexandria Community Services Board.

Michael Behrmann, Center for Human Disabilities, received four grants, *Technical Assistance Center on Severe Disabilities*, \$120,000, Virginia Department of Education; *Technical Assistance Center*, \$233,244, Virginia Department of Education; *Assistive Technology Resource Center*, \$75,000, Virginia Department of Rehabilitative Service and George Mason University; and *Features That Work for Teachers: Software Design in Early Childhood Special Education*, \$390,769, U.S. Department of Education.

W. Murray Black, Electrical and Computer Engineering, received three grants, *Axial-Field Transverse Modulation Klystron*, \$24,850 cash award and in-kind equipment award of \$45,500, FM Technologies, and \$56,942, Center for Innovative Technology; *Modular Systems for Heavy Ion Fusion Accelerators*, \$56,994, Virginia's Center for Innovation Technology; and *The Microwave Joining of SiC to SiC Ceramics*, \$30,000, Technology Assessment and Transfer, Inc.

John Blaha, Psychology, received a School Psychology Intern Fellowship Agreement for Theresa Early, \$8,000.

Deborah Boehm-Davis, Psychology, received four grants relating to the Human Factors Program, *Driving Related Skills in People with Epilepsy*, \$10,029.40, *Human Factors Technicians*, \$15,029.28, *Signing Research Issues*, \$3,477.60, and *Technical Contract Monitoring*, \$15,429.44, all from Science Applications International Corporation; and a grant, *Proposal for Human-Computer Interaction Symposium*, \$1,085, Catholic University.

Beverly Boyd, Nursing, received a grant, *Rev/Nursing Contract Courses*, \$10,172, Lisboa Associates and George Mason University.

Benjamin J. Broome, Communication, and **John Warfield**, IASIS, received a grant, *Application of Interactive Management to System-Wide Planning for Analytical Powertrain*, \$260,000, Ford Motor Company.

Rex Brown, Systems Engineering, received a four-year grant, *Logical Frameworks for Making and Justifying Arctic Development Decisions: Russian and U.S. Approaches*, \$65,250, from the Division of Polar Programs of the National Science Foundation.

Annette Carr, Center for Human Disabilities, received a grant, *The Liberator Alternative Communication Device*, on loan, George Mason University and The Prentke Romich Company.

Rita Carty, School of Nursing, received a grant, *LPN to RN: A Baccalaureate Degree Pathway for LPNs*, \$113,155, Division of Nursing, Health Resources, and Services Administration.

Thomas Dietz, Sociology, received a grant, *Altruism, Valuation, and Global Change*, \$99,323, National Science Foundation.

Elly Doyle, Center for Transportation and Land Policy, and **Donald Gantz**, Operations Research and Applied Statistics, received a grant, *An Entrepreneurial Transportation Strategy for Transit Services*, \$80,000 with matching funds of \$20,000 will be provided by NOVA Group, Ltd.

Mary Ann Dzama, Graduate School of Education, received a grant, *Reading to Learn 92-93*, \$25,000, Virginia Department of Education.

Robert Ehrlich and **Maria Dworzecka**, Physics, received a grant, *Consortium to Develop Software for Upper Level Undergraduate Physics*, \$277,273, National Science Foundation.

Carl Ernst, Biology, received a grant, *A Vertebrate Inventory and Distributional Study At Fort Belvoir*, \$24,999, Department of the Army.

Edwin Fleishman, Psychology, received a grant, *Model to Predict Objective Human Error Rates*, an increment of \$39,000, Nuclear Regulatory Commission.

Gregory Foster, Chemistry, received three grants, *Tributary Loadings of Trace Organic Substances in Chesapeake Bay*, \$5,000, Metropolitan Washington Council of Governments; *Tributary Loadings of Trace Organic Substances in Chesapeake Bay*, an increment of \$65,692, Council of Governments and George Mason University; and *Impact of Dredging the*

New Coordinator Directs Alcohol Awareness Week

Kimberley Timpf, who joined Mason's Drug Education Center as program coordinator this August, is responsible for creating and coordinating drug-education-center programming, such as National Collegiate Alcohol Awareness Week, which was celebrated Oct. 9 to 23, safe spring break, and safe holiday break.

She is also adviser to PEACE (Patriots Encouraging Alcohol Consumption Education), the George Mason chapter of BACCHUS (Boost Alcohol Consciousness Concerning Health of University Students). Members of PEACE strive to help peers make healthy decisions about the use, or non-use, of alcohol, Timpf says.

Nancy Schulte, director of the center, says Timpf has already established a good rapport with Mason students. "I'm looking forward to a lot of excellent programming this year with Kimberley and the students," Schulte says. "Students are becoming more involved with the center, and having someone like Kimberley, who understands and works well with students, is wonderful."

Timpf and Schulte explain that they would also like faculty to become more involved with the center and its programming. "We need more understanding and encouragement from faculty," says Schulte. "We want to be of help in any way we can, especially if they notice a student not attending class on a regular basis. That could be a sign of trouble. Kimberley and I can advise faculty members to confront students who may have a drinking problem."

Timpf agrees. "We're all working toward the same goal," she says. "The goal is academic success and no substance-abuse problems among students. We know most faculty have increased their attention to the issue. Faculty as well as students are part of the solution."

Timpf came to George Mason from the University of Lowell, in Massachusetts, where she served as a residence hall director. She says she became interested in working with students when she was a resident adviser



Kimberley Timpf, Drug Education Center

during her graduate-school years at Boston College, especially when she noticed a pervasive problem with students and alcohol on campus.

While at Lowell, Timpf chaired the social issues and substance-education committees in the Office of Residence Life and helped establish a chapter of BACCHUS on campus. She also worked as a rape crisis counselor. "Working on those committees and as a rape crisis counselor helped get my interest going in alcohol-and-drug-education programming," says Timpf. "It's always challenging to work with students."

A native of Burke and graduate of Lake Braddock High School, Timpf received a master's degree in education from Boston College in 1990 and a bachelor's degree in music education from James Madison University in 1986.

Bladensburg Marina on the Water Quality of the Anacostia River, \$21,477, Interstate Commission on the Potomac River Basin and George Mason University.

Donald Gallehr, English, received an appointment of a one-year, quarter-time position, *Co-Director, National Writing Project*, \$16,772.

Donald Gantz, C³I Center and Operations Research and Applied Statistics, received a grant, *DISA/TOA15: DISA/CIM's DOD Computer Capacity Management Training Program*, \$110,244, Defense Information Systems Agency.

Barbara Given, Educational Study Center, received approval of No Cost Extension for *1991-1992 Special Education Retraining Institute*.

Kingsley Haynes, TIPP, and **David Armor**, TIPP, received a grant, *Minority Representation in the U.S. Military*, \$24,992, Smith Richardson Foundation.

Douglas A. Hershey, Center for Behavioral and Cognitive Studies, received a grant, *An Information Processing Study Gender and Socio-economics Status Differences in Retirement Decision Making*, \$67,236, The American Association of Retired Persons.

Kenneth J. Hintz, C³I Center and Electrical and Computer Engineering, received two grants *Foreground-Background Separation Using Multiple X-Rays Images*, \$24,934, and *X-Ray Image Enhancement Using MTF Identification Proposal*, \$24,934, both from the U.S. Arms Control and Disarmament Agency.

Karla Hoffman, Operations Research and Applied Statistics, received a grant, *Doctoral Student Support for Research in Large-Scale Combinatorial Optimization*, \$85,811, Department of the Navy, Office of Naval Research.

Sushil Jajodia, Center for Secure Information Systems, received two grants, *Travel Support for the Sixth IFIP WG 11.3 Working Conference on Database Security*, \$15,000, Office of Naval Research, and *Transaction Processing in Secure Distributed Database Systems*, \$60,000, NCSC/National Security Agency.

Christian Jones, Biology, received a grant, *Gunston Cove Ecology Study, 1992-1993*, \$81,613, County of Fairfax, Virginia.

Julie Jones, Center for Human Disabilities, *STEP FAST Project to Integrated Education of Children with Deaf-Blindness*, \$191,660, U.S. Department of Education.

Donald Kelso, Biology, *Study of Plant Species and Plant Communities of Dyke Marsh*, \$12,000, National Park Service.

Larry Kerschberg, Information and Software Systems Engineering, received a grant, *Information Integration and Interchange: A Federated Systems Approach*, \$150,000, Office of Naval Research.

David Kuebrich, English, received a grant for his Fulbright fellowship, *Lecturing in American Literature, Thought, and Social History*, \$28,000, Council for International Exchange of Scholars. The George Mason University College of Arts and Sciences Dean's Office is supplementing this award in the amount of \$7,517, for a total award of \$36,137.

Kathryn Laskey, C³I Center, received an extension of the grant period, *Intelligent Tutoring Games for Interest-Based Learning*, Research Development Corporation and George Mason University.

Jim Lawrey, Biology, received a grant to do lichen surveys in the Otter Creek and Dolly Sods Wilderness of the Monongahela National Forest in West Virginia, \$20,225, U.S. Forest Service.

Mary Anne Lecos, Graduate School of Education, received a grant, *Professional Development Schools (PDS)*, \$157,056, George Mason University and Fairfax County Public Schools.

David Lepard, Northern Virginia Regional Assessment Center and Graduate School of Education, received a grant, *Northern Virginia Regional Assessment Center Leadership Academy 1992-93*, \$26,462, Virginia Department of Education.

Alexander Levis, C³I Center, received a grant, *Joint Service C³ Programs*, \$91,300, George Mason University and SAIC, and an extension of the grant period, *Petri Net Modeling and Analysis of a Battle Force's C³ System Architecture*, SAIC.

Beverly Mack, English, received a grant, *The Compilation, Translation, and Contextual Annotation of the Poetic Works of Nana Asma'u Bint Usman 'dan Fodio*, \$102,655, National Endowment for the Humanities.

Andrzej Maritius and **Richard Auletta**, Electrical and Computer Engineering, received an extension of the grant period, *ORBCOM*

Position Determination Algorithm: VLSI System Simulation and Design Requirements, Orbital Communications Corporation.

Arthur Melmed, Institute of Public Policy and Graduate School of Education, received a grant, *Network Applications for Education: Costs, Benefits, and Demand*, \$168,913, National Science Foundation.

Ryszard S. Michalski and **Piotr Pachowicz**, Center for Artificial Intelligence, received a grant, *Machine Vision Through Machine Learning*, \$50,000, United States Air Force, Air Force Office of Scientific Research.

Bob Might, C³I Center, received a grant, *CUTM Computer Understandable Terrain Model*, \$35,000, George Mason University and the University of Chicago/Argonne National Laboratory.

Richard Miller, Human Services, received a grant, *Marketing Research on Medical Self-Care Literature*, \$1,705, Center for Corporate Health.

Christopher Mitchell and **Gertrude Wetherall**, Institute for Conflict Analysis and Resolution, received a grant, *IPA*, \$51,917, George Mason University and the U.S. Army/Institute for Water Resources.

Michael Mumford, Center for Behavioral and Cognitive Studies and Psychology, received an extended grant period, *Background Data Measures for Predicting Performance*, Department of the Navy, Office of Naval Research.

George Mushrush, Chemistry, received a grant, *Fluorinated Polyurethanes*, \$32,000, Department of the Navy, Office of Naval Research.

Oluseyi Olurotimi, C³I Center and Electrical and Computer Engineering, received grant, *Neural Network Dynamic Pattern Recognition Using Optimal Control*, \$89,991, National Science Foundation, and in addition \$74,381 from the C³I Center.

Geoffrey Orsak, Electrical and Computer Engineering, received a grant, *Efficient Algorithms for the Design of Systems with non-Gaussian Inputs*, \$19,102, National Science Foundation.

James Palmer, Center for Regional Mobility, received a grant, *Consortium for Suburban Mobility*, \$250,000, Virginia Department of Transportation.

David Rine, Computer Science, received a grant, *Object-Oriented Ions for Particle-In-Cell (PIC) Plasma*, \$64,025, U.S. Air Force/AFOSR.

Terrance Ryan, Systems Engineering, received two grants, *U.S. Waters Study*, for Matthew Fadoul, student research project, \$4,992, U.S. Army Corps of Engineers and *Institute for Water Resources*, for Robert H. Cantave, \$12,672, U.S. Corps of Engineers.

Andrew Sage, School of Information Technology and Engineering, received a grant, *Artificial Intelligence Center Visiting Professor T. Vamos*, \$10,000, Soros Foundation-Hungary.

Ravi S. Sandhu, Center for Secure Information Systems, received two grants, *Foundations of Multilevel Secure Object-Oriented Database Management Systems*, \$47,635, NCSC/National Security Agency and *Towards Unified Security Models for Confidentiality and Integrity*, \$60,000, Maryland Procurement Office acting on behalf of NCSC/National Security Agency.

Dennis Sandole, Institute for Conflict Analysis and Resolution, received a grant, *Institute for Water Resources*, for Robert H. Cantave, student research project, \$16,378, U.S. Army Corps of Engineers.

Nancy Schulte, Drug Education Center, received a grant, *SIP—Students in Prevention*, \$12,000, Office of the Governor.

Hugh Sockett, Center for Applied Research and Development, received a grant, *Headstart Transition Demonstration Project, Year 2*, \$75,513, County of Fairfax.

Clayton Stewart, C³I Center, received six grants, *Analysis of a Foliage Penetration Experiment*, \$6,644; *Detection of Targets in Title Non-stationary Clutter*, \$4,380; *Extant Methods for Detection and Classification of Targets in Deep Hide*, \$4,380; *Identification of Sensor Fusion Research Objectives*, \$8,844; *Science Applications International Corporation: Integration in Intelligence Planning Support*, \$9,000, and *ATR Special Project*, \$15,000, all from SAIC.

Mark Walbridge, Department of Biology, received a grant, *Phosphate Removal Capacity, Hydrology, and Landscape Position of Selected Freshwater Wetlands in the Virginia Piedmont and Coastal Plain*, \$50,000, George Mason University and the Rappahannock Area Development Commission.

John Warfield, IASIS and The Institute of Public Policy, received a grant, *Defense Systems Management College Education and Research Services*, \$75,000, Defense Systems Management College.

Harry Wechsler, Computer Science, received an extension of a grant, *Multi-Frame Video Analysis*, Federal Bureau of Investigation.

Ted Yamashita, C³I Center, received a grant, *DISA/TOA14: Southwest Border States Capabilities Demonstration*, \$316,312, Defense Information Systems Agency.

Conferences, Seminars, Workshops

Laura Adamkewicz, Biology, attended the UNITAS International Malacological Confer-

ence in Sienna, Italy, where she presented a paper on *Donax* to the symposium on molecular techniques in phylogeny. Graduate student **John Slapcinsky** presented a paper by Adamkewicz, on Jamaican *Donax*, to the American Malacological Union in Sarasota, Florida.

Robert A. Anthony, School of Law, was the first keynote speaker at Duke Law School's 1992 annual conference on administrative law. In September he, along with the solicitor general of the United States and a leading Washington lawyer, briefed the national press on the work of the lower federal courts. Anthony is a consultant to the Administrative Conference of the United States, a member of the Council of the American Bar Association Administrative Law and Regulatory Practice Section, and chair of the Publication Advisory Board of the International Law Institute.

Ted Bradley, Biology, is recognized as the featured advisor in *The Advisor* newsletter put out by the Academic Advising Center.

Benjamin J. Broome, Communication, presented two papers at the annual convention of Speech Communication Association in Chicago: "The Role of Facilitated Group Process in Community-Based Planning and Design" and "Values in the Future: Contemporary Tribal Values in Apache, Cheyenne/Arapaho, Comanche, and Pawnee Communities." At this convention he chaired the paper session, "Top Three Papers in International and Intercultural Communication." "A Comparison of Cultural Issues in Native American Communities with Cultural Problems Affecting Design Projects at Ford Motor Company" was a presentation he made to the Ford Seminar on Organizational Culture in Dearborn, Michigan.

Francis H. Buckley, School of Law, spoke on "Federalism and Freedom" at Liberty Fund Workshop in January and at a GMUSL workshop in March. He is a member of an advisory group seeking to bring a Catholic television network to Arlington, Virginia.

Lawrence Butler, Art and Art History, was an on-site lecturer around the Mediterranean, visiting sites in France and Italy.

Alan Christensen, Biology, and graduate student **Donna Fox** both presented posters at the MidAtlantic Plant Molecular Biology Conference at the USDA in Beltsville, Maryland. Christensen also attended the American Society for Plant Physiology Annual Meeting in Pittsburg, Pennsylvania, and presented a poster.

Steven M. Crafton, School of Law, attended a conclave sponsored by the Virginia State Bar on Legal Education in Wintergreen, Virginia. He also lectured at the Law and Economics Center's "Economics Institute for Law Pro-

Stewart Leads Recycling Effort

Former University Activities staff member Sheri Stewart has been named George Mason's first recycling coordinator. Stewart, a three-year university employee, assumed her duties Oct. 5.

According to L.E. McMenamin, director of the Physical Plant, Stewart is responsible for developing and coordinating a more comprehensive university program for all recyclable materials. In addition, she is creating a campus-wide awareness campaign about Mason's recycling efforts and seeking participation from the university community.

"This is the start of something new," McMenamin says of Stewart's appointment. "We already have a program in place with Recycle for Life, but our plan is to expand and build on that program to make it even more comprehensive."

McMenamin says that when George Mason enacted a voluntary recycling program three years ago, it was administered by Auxiliary Enterprises. The program is now being coordinated by the Physical Plant, says McMenamin, who notes that Recycle for Life, whose employees are clients of the Northern Virginia Training Center, will continue their duties of collecting some of the recyclable materials.

"I can't say enough good things about Recycle for Life," says McMenamin. "They've done a great job."

One year ago, Governor L. Douglas Wilder issued a mandate requiring all state agencies to recycle a percentage of all solid-waste materials. The percentage of materials will increase over the next three years, starting at 10 percent now and eventually reaching 25

percent by 1995, McMenamin says. George Mason will recycle such materials as plastics, cardboard, aluminum, plain white paper, color paper, newspaper, and other solid-waste materials. The university's initial program involved voluntary recycling of only newspaper, white paper, and aluminum.

Already Stewart has traveled to the University of Virginia, James Madison University, and Virginia Tech to tour the schools' facilities and learn more about their operations and equipment. The visits provided Stewart with additional background materials and potential models for the start-up of George Mason's new program. However, Stewart says, she will make a concerted effort to improve on all three programs.

"We're going to have a good program," McMenamin says. "George Mason cares about the environment, and we're going to do our part to help protect it. This is something we feel strongly about. We're very excited to have Sheri on board. She'll be a real asset to the Physical Plant staff and the new recycling program."

Stewart intends to develop the kind of program that makes recycling easy and convenient for all involved. She also says she welcomes suggestions and ideas about the program from faculty, staff, and students, and plans to keep the university community updated about the program's progress by issuing a recyclable newsletter on a regular basis.

"This will be the type of program everyone can easily participate in," she says, "and we're confident that the George Mason community will be very supportive."

Stewart, a Fairfax resident and native of Trenton, New Jersey, is enrolled in the art history



Sheri Stewart, Physical Plant

program at Northern Virginia Community College and plans to continue her studies at George Mason. She began her university career as a program support technician in University Activities, assisting in the scheduling and managing of a wide variety of special events.

If anyone would like to offer suggestions or ideas, Stewart can be reached at the Physical Plant, x2540.

fessors" held in July at Dartmouth College.

Edward J. Damich, School of Law, participated in a panel discussion on the situation in the former Yugoslavia sponsored by the Carnegie Endowment for Peace and he was chairman for Concert for Croatia's Future held at the Kennedy Center for the Performing Arts last May.

Steven J. Eagle, School of Law, was appointed senior fellow at the Institute for Justice in Washington, D. C. He delivered two lectures on "Public Interest Law—A Classical Liberal Approach" at a seminar sponsored by the Charles G. Koch Charitable Foundation in June and presented a workshop at GMUSL on "Rent Control and the General Welfare" in April.

Edwin A. Fleishman, Psychology, chaired a symposium, *Functional Job Analysis/Job Element Method: Historical Roots, Contemporary Uses*, and presented a paper, *Industrial/Organizational Psychology Practice Through Time*, at the American Psychological Association Convention in Washington, D. C.

Mary Sayer Hammond, Art and Art History, spent 10 days in Beijing, China, where she made a series of pinhole photographs, lectured at Beijing's University of International Business and Economics, and conducted a day-long workshop on pinhole camera construction at the Beijing Photographers Association.

Francis Heliotis, Biology, presented a paper, "Prediction of Capillary Fringe Thickness in Sandy, Non-Swelling Wetland Soils," at the 13th annual meeting of the Society of Wetland Scientists held in New Orleans. Former master's candidate **Jill Keihn** and **Geoff Birchard** co-wrote the paper. Heliotis spent three weeks in the Mississippi Delta with a group of Romanian and U.S. wetland scientists.

Bob Jonas, Biology, was interviewed on Channel 13 out of Baltimore on issues of functions of microbial communities on the Chesapeake Bay as an anthropogenically altered ecosystem.

William E. Kovacic, School of Law, spent three weeks in Zimbabwe last February as a member of Monopolies Commission Study Team sponsored by the Agency for International Development. In March he gave a presentation on "Antitrust Developments and Issues" at a Federal Judicial Center program for judges of the D.C. Third and Federal Circuits. In August at the American Bar Association's annual meeting, he gave presentations on "Procurement Reform in the 1990s" and "Current Development in Judicial Analysis of Bid-Rigging."

Michael I. Krauss, School of Law, presented "The Record of the U.S.-Canada Bilateral Dispute Resolution Panels," at a Cato Institute conference on the North American Free Trade Agreement in Mexico City, and he presented "Coercion versus Spontaneous Coordination" at a conference on the development of Intelligent Vehicle and Highway Systems sponsored by the University of California at Berkeley in Monterey, California. Krauss was a member of a team sponsored by the U.S. Agency for International Development in Madagascar to explore ways to liberalize that former Marxist state's legal institutions. He was a lecturer on "Natural Rights, Consequentialism, and Freedom" at a conference on "Public Interest Law from a Natural Rights Perspective" sponsored by the Institute for Justice in Washington, D.C.

Walter Kravitz, Art and Art History, had his Capitol Hill home/studio featured in an article on interior design in the *Washington Post* magazine recently.

Thelma Z. Lavine, Robinson Professor for Philosophy and American Culture, gave the keynote address at Howard University Faculty Study for New Core Curriculum, sponsored by NEH.

Jim Lawrey, Biology, attended the 43rd AIBS annual meeting held in Honolulu, where he was asked to organize a symposium for the meetings dedicated to the Smithsonian lichenologist, Mason Hale, who passed away recently.

Chris Jones, Biology, and master's candidate **Tess Connor** cowrote a poster session presented by Connor, "Population Dynamics of *Bosmina Longirostris* in a Tidal Freshwater Ecosystem" to the International Society of Limnology (SIL) Congress in Barcelona, Spain. **Connor**, **Jiangfeng Chen**, and **Jones** each presented papers at the Virginia Academy of Science in Richmond.

Henry G. Manne, School of Law, gave a presentation on "Owning Information vs. the Right to Trade on Information: Secrets of the Insider Grading Dispute Revealed" at the Henry Simons Society meeting in Arlington, Virginia.

Registrar's Office Staffer Named October Employee of Month

Colleen Bauer, enrollment services specialist, is the university's classified employee of the month for October. She was nominated by associate registrar Susan Jones and nine other staff members from the Registrar's Office and Computer Systems and Operations.

In her position, Bauer manages the Student Records section of the Registrar's Office. She is responsible for the accuracy of the permanent academic record of every student who ever attended George Mason, says Jones. In addition, Bauer is responsible for processing transcript requests from students and alumni.

During the last year, Bauer and her staff had to convert 18,000 student records to the new administrative computing system and convert the transcript process from manual to on-line. "Although this was a complex process, we have received remarkably few comments from students regarding inaccuracies," says Jones.

In addition, "since [Bauer] is in charge of academic records and grading, she is an authority on George Mason's academic policies and is often called upon as a resource. Next to the registrar, she is the technical authority in her area," says Jones.

Bauer was also cited by Jones for her "keen sense of detail and process, strong communication and people skills, supervisory strengths, and the ability to see both the forest and the trees."

Says Jones, "This is a thankless business, mostly. Our customers expect 100 percent accuracy. If something goes wrong, you hear about it. We almost never hear."

Classified employees of the month are



Colleen Bauer, Office of the Registrar

presented with a certificate by president George Johnson and given a reserved parking space for one month. They also receive gift certificates from the university bookstore, Brion's Grille, and Nelligan's Framing; lunch for two from university dining services; tickets to shows at the Patriot Center and Concert Hall; and tickets to Intercollegiate Athletic events.

In May he was host and speaker on "Insider Trading" at the Law and Economics Center's conference on *The Economic Structure of Corporate Law*. Other Law and Economics Center programs he attended include: "Basic Economics Institute for Federal Judges" in March, "Advanced Course on Antitrust" for federal judges in April, "Basic Course on Quantitative Methods" and "Basic Course on Science and Public Health" for federal judges in May, and "Economics Institute for Law Professors" in July. He attended the American Law and Economics Association Board of Directors meeting and annual meeting, at which he was panel chair for "Whither Law and Economics: In Practice, Theory, and Methodology." He attended the annual meeting of the American Association of Law Schools in San Antonio and the annual meeting of the American Law Institute in Washington, D.C.; and Cato Monetary Conference in Washington, D.C.; and a Virginia State Bar Conclave on the Education of Lawyers in Virginia in Wintergreen, Virginia. He gave an update on the law school to the George Mason University Foundation Trustees in February and spoke at an Arnold & Porter luncheon in Washington, D.C., in June. He attended a D.C. Circuit Judicial Conference in Williamsburg, Virginia, and a Fourth Circuit Judicial Conference in White Sulphur Springs, West Virginia, in June. In August, he attended the annual meeting of the Mont Pelerin Society in Vancouver and two colloquiums sponsored by the Liberty Fund.

Carol Mattusch, Art and Art History, is spending the year as a senior fellow at the Center for Advanced Study in the Visual Arts at the National Gallery of Art in Washington, D. C., continuing her research on Greek bronze sculpture.

Barbara Mones-Hattal's, Art and Art History, "Figure to Field" has been selected by Critics' Committee of Lucca, Italy, for showing at the 19th International Exhibition of Animated Films and has been called "among the best international production of computer animated films 1990-92."

Harold Morowitz, Robinson Professor of Biology and Natural Philosophy, lectured at the Santa Fe Institute Summer School, and also lectured on "The Origin of Life," Biosphere 2, SunSpace Ranch, Arizona.

Janette Muir and **Cynthia Lont**, Communication, presented the visual literacy workshop, "Teaching Students to Critically Think About Images," at the International Visual Literacy Association Convention in Pittsburgh.

Timothy J. Muris, School of Law, presented

"Strategy, Structure, and the Cost of Transacting: The Case of Carbonated Soft Drinks" to workshops sponsored by the Federal Trade Commission and GMU's Center for Public Choice, and "State and Federal Regulation of National Advertising" to a workshop held by the American Enterprise Institute. Muris also spoke on "Concentration and the New Merger Guidelines" at the National Economics Research Associates conference on "The New Merger Guides." He served as a consultant to the Department of Justice regarding the redraft of merger guidelines and he became a member of the core faculty of the GMU International Institute.

Karen Oates, Biology, and **Mark Iacobucci** (B.S. 1992 graduate) presented a paper at the 1992 Academy of Science Meeting. Oates served on a three-day grant review panel for the National Institutes of Health on the development of non-mammalian model for research.

Larry E. Ribstein, School of Law, spoke at the Law and Economics Center's conference *The Economic Structure of Corporate Law*. He attended meetings in Dallas and Denver of American Bar Association Ad Hoc Committee on the Revised Uniform Partnership Act, which recommends whether ABA should approve RUPA. He was a reporter for the Prototype Limited Liability Company Act by and ABA ad hoc subcommittee, presented at the annual meeting of the ABA.

Terrance C. Ryan, Information and Software Systems Engineering, and two graduate students, **Michael J. Harris**, Urban Systems Engineering, and **Frank Armour**, Information Technology, gave presentations at the Urban and Regional Information Systems Association Conference, Washington, D.C., in July. Ryan spoke on "Spatial Decisions Support Systems"; Harris, "Spatial Decisions Support Systems for Potomac River Crossing of I-95 South of Washington, D. C."; and Armour, "Utilization Hypermedia in a MAU Model-based Spatial Decisions Support System."

Jeffrey Schwamm, Human Services, presented "Educating Social Work Students for Enhancing the Quality of Life for Individuals with Disabilities," 26th International Congress of Schools of Social Work, Washington, D.C., and "Expanding Eligibility for Supplemental Security Income Based on Childhood Disability: The Zebly Decision" at the annual meeting of the Society for Disability Studies, Rockville, Maryland.

Judith Skog, Biology, attended the 4th International Paleobotanical Conference held in Paris, France, and presented a paper on "Ferns of

the Mid-Cretaceous Dakota Group from Kansas and Nebraska."

Deborah Sokolove, Art and Art History, exhibited her art work in a one-person show at the Foundry Gallery in Washington, D.C. This fall, her work is featured in another solo show at Messiah College's Auchibach Gallery, in Grantham, Pennsylvania.

Valery N. Soyfer, Robinson Professor of Biology and History of Science, was chairman for the organizing committee for the first international workshop, "The Chelyabinsk Nuclear Accidents and Their Consequences." He organized a section "Post-Communist Science" at the fourth joint conference, "Science, Technology and Development," of the Society for Social Studies of Science and European Association for the Study of Science and Technology, which took place in Gothenburg, Sweden, and presented the keynote address at this session entitled "Scientific Institutions in Russia and Their Future Fate." At the 19th International Conference of the Unity of Sciences, which took place in Seoul, Korea, he presented "Migration of People in the 20th Century" at the Symposium on Cross-Culturalization.

Mark Spikell, Graduate School of Education, spent several weeks as a faculty member of the V-QUEST Mathematics and Science Lead Teacher Institute at Mary Baldwin College in Staunton, Virginia.

Wayne M. Stalick, Chemistry, and undergraduate research student **Matthew Milkevitch** presented a paper, "Calcium Hydride Effects on Picoline Alkylation Reactions in Liquid Ammonia," at the American Chemical Society National meeting in Washington, D.C. **Stalick** presented a paper written with **George W. Mushrush**, "Fuel Instability Studies: Nitrogen Heterocycles and Sulfonic Acids," at the symposium on Frontiers in Catalysis Research held at Northwestern University.

Anita Taylor, Communication, presented a paper, "Using Film to Confront Violence: Studio D's *To a Safer Place* and *After the Montreal Massacre*" at the annual convention of the Eastern Communication Association in Portland, Maine, and a paper, "Women's Documentary About Women: A Mean to Work Toward Transformation," at the annual convention of the International Communication Association in Miami, Florida.

Ellen Todd, Art and Art History, participated in "Women in the Arts Today: Building Community in a Time of Crisis," a panel discussion at National Museum of Women in the Arts.

Jean Toth-Allen, Physics/Biology, was a member of the life sciences panel for the association program of the National Research Council.

James Trefil, Robinson Professor of Physics, lectured on "The Role of Science in Cultural Literacy," as part of the Columbia University Seminar and Honors Week Keynote Lecture at University of Alabama.

Mark R. Walbridge, Biology, was invited to present "The Effects of Forest Management on Biogeochemical Function in Southern Forested Wetlands" at the 13th Annual Meeting of the Society of Wetland Scientists, New Orleans, Louisiana. He presented a paper at the 77th Annual Meeting of the Ecological Society of America, Honolulu, Hawaii, "Phosphorus Availability Along a Landscape Gradient in the Big Thicket National Preserve."

Scott C. Whitney, School of Law, spoke at an environmental law education course sponsored by the Department of Justice on "Environmental Compliance in the 1990s" and at an American Law Institute/American Bar Association environmental litigation symposium at the University of Colorado.

George A. Zaphiriou, School of Law, attended a congress on "Uniform Commercial Law in the 21st Century" of the United Nations Commission on International Trade in New York in May. In June, he advised the U.S. State Department on the United Nations Model Law on Procurement.

Students

Molly Mazeika, Communication, completed a project in Women's Studies 200 and was selected by the Organization for the Study of Communication, Language, and Gender as the winner of its award for outstanding undergraduate paper. She wins an award of \$100 plus support to attend the next conference of the organization, being held at Hofstra University.

[Editor's Note: The following are new regular and restricted full-time faculty appointments for the 1992-93 academic year inadvertently omitted from the list published in the Aug. 31 issue of the Mason Gazette.]

College of Arts and Sciences Art and Art History

Margarida Kendall, lecturer, until her present appointment taught part-time at George Mason for nine years. She also taught at Towson State University and St. John's College, Annapolis. She earned her M.F.A. from Catholic University of America in 1982. She has been featured in nine one-woman shows in Virginia, Maryland, Washington, D.C., and Portugal, and numerous group exhibitions. Kendall's works are in collections at the Chicago Art Institute, Coopers and Lybrand in Washington, D.C., and two museums in Lisbon, Portugal. Her paintings have been awarded several first place prizes.

Economics

Zenon X. Zygmunt, visiting instructor, expects his Ph.D. in economics from George Mason University in 1992. He was awarded the Claude R. Lambe Fellowship from the Center for the Study of Market Processes for the 1991-92 academic year, which he also held from 1987 to 1989. Other honors from the center and the Economics Department include Gilder Foundation Fellow for Free Enterprise Research and the J.M. Foundation Fellowship. Zygmunt's presentations and papers focus primarily on the small satellite industry, econometrics in developing countries, and Eastern Europe's conversion to free market economies.

History

John Orens, visiting associate professor, taught at Springfield College, Mass., the Rhode Island School for Deacons, Boston University, and Boston College prior to his appointment at George Mason. He earned his Ph.D. from Columbia University. His area of specialization is European intellectual history of the nineteenth and twentieth centuries, and he has published works on Anglo-Catholic socialism and the Anglican left.

Program on Social and Organizational Learning

Brad J. Cox, associate professor, was co-founder, vice president, and chief technical officer of The Stepstone Corporation, Sandy Hook, Conn., for eight years before his appointment at George Mason. He earned his Ph.D. in chemistry and neurophysiology from the University of Chicago in 1973. His publications include *Object-oriented Programming: An Evolutionary Approach* (Addison-Wesley Publishing Company, 1986). Cox originated the Objective-C programming language and its supporting tools and libraries.

William D. Rifkin, visiting assistant professor, taught at John F. Kennedy University, Calif., Union Institute, Ohio, and the Institute for Research on Learning, Calif., before joining George Mason. He earned his Ph.D. in sociotechnical studies at Stanford University in 1990. Described as an "expert on experts," Rifkin's research focuses on communication barriers between technical and nontechnical people, and the nature of communities, conversation, and decision-making in different societies. He has written articles for such journals as *Liberal Education*, *Midwest Medical Ethics*, and *Bulletin of Science, Technology, and Society*.

Graduate School of Education

Dona M. Kagan, professor, earned her Ph.D. in educational psychology from Arizona State University in 1978. Prior to joining George Mason, she taught at the University of Alabama for two years. She also taught at Clemson University, California State University at San Bernardino, the University of Nebraska at Omaha, and was an English teacher for public schools in New York and Arizona for five years. In 1990, she was awarded the Outstanding Scholarship on Teacher Education by the Association of Colleges and Schools of Education in State Universities and Land Grant Colleges. She has published numerous journal articles, many of them on eating disorders, addiction, and compulsive behaviors.

Lorraine Valdez Pierce, associate professor, was a research associate at the Center for Applied Linguistics, Washington, D.C., before joining George Mason. She earned her Ph.D. in applied linguistics from Georgetown University in 1984.

Pierce also served as senior evaluation training specialist for the Evaluation Assistance Center at Georgetown University for one year, and was director of National Origin Desegregation for the Mid-Atlantic Equity Center at The American University for two years. She has held positions with the National Clearinghouse for Bilingual Education, John Cabot International College in Rome, Italy, and with the Defense Language Institute in Texas.

School of Business Administration Accounting and Business Legal Studies

Victoria J. Doby, visiting assistant professor, comes to George Mason from Towson State University, where she taught since 1983. She earned her D.B.A. in accounting from The George Washington University in 1992. Her employment experience includes 13 years in various positions at the Baltimore Branch of the Federal Reserve Bank of Richmond. Her research interests are in the areas of behavioral accounting and empirical financial research.

Management

Philip Gibbs, visiting assistant professor, earned his Ph.D. in business administration from Massachusetts Institute of Technology. He has more than 15 years in industry serving as a principal with HAY Management Consultants, and management positions with FMC Corporation and UOP, Inc., a subsidiary of Allied-Signal Corporation. His research focuses on the role of boards of directors in strategic change.

School of Information Technology and Engineering Computer Science

Ron Ashany, visiting professor, comes to George Mason from The Graduate Center and Brooklyn College of the City University of New York, where he taught for four years. He also taught at the University of California at Berkeley, the Imperial College of Science and Technology of the University of London, the Polytechnic Institute of New York, and New York University. Ashany's work experience includes 18 years with the IBM Corporation. He received his Ph.D. in electrical engineering and computer science from the Polytechnic Institute of Brooklyn, N.Y., in 1976.

Daniel Menasce, visiting professor, earned his Ph.D. in computer science from the University of California at Los Angeles in 1978. Prior to joining George Mason, he taught at the University of Maryland at College Park and Pontificia Universidade Catolica do Rio De Janeiro in Brazil. He is the author of three books, most recently *Capacity Planning of Computer Systems: Operational Analysis as a Tool* (Editora Campus, Rio de Janeiro, 1985) and *Computer Networks: Technical and Operational Aspects* (Editora Campus, 1984).

J. Mark Pullen, associate professor, comes to George Mason from the Defense Advanced Research Projects Agency, where he held several positions since 1986. A former lieutenant colonel in the U.S. Army, Pullen taught at the U.S. Military Academy at West Point, N.Y., for three years, Northern Virginia Community College for two years, and the Department of Defense Computer Institute for three years. He was a Congressional Engineering Fellow for the U.S. House of Representatives' Committee on Science and Technology from 1985 to 1986. He earned his doctor of science in computer science from The George Washington University in 1981.

Information and Software Systems Engineering

A. Jefferson Offutt, assistant professor, earned his Ph.D. in computer science from Georgia Institute of Technology in 1988. Prior to joining George Mason, he taught at Clemson University for four years. He has published articles in such journals as *ACM Transactions on Software Engineering Methodology*, *IEEE Transactions on Computers*, and the *ITEA Journal of Test and Evaluation*. His teaching interests include software engineering; specification, design, and testing; data structures; algorithm design and analysis; and automata theory.

Xiaoyang Wang, visiting assistant professor, earned his Ph.D. in computer science from the University of Southern California at Los Angeles in 1992. He has published articles in such journals as *Software: Practice and Experience and Information and Computation*. Before coming to George Mason, he taught at Fudan University, People's Republic of China, and at the University of Southern California. He received the "Out-

standing Academic Achievement" award by the Office of International Students and Scholars at the University of Southern California in 1990.

Systems Engineering

Rex V. Brown, associate professor, has been a research professor at George Mason for two years prior to his present appointment. He is also co-founder and principal of Decision Science Associates, Inc. He previously taught at Carnegie-Mellon University, University of Michigan, and Harvard Business School. In addition, he has been a visiting fellow or research fellow at University College London and Cambridge University. He has written five books and 70 refereed papers, and received numerous awards. He received his D.B.A. in decision theory from Harvard Business School in 1968.

Kuo-Chu Chang, associate professor, received his Ph.D. in electrical engineering from the University of Connecticut in 1986. Until his appointment at George Mason, he was a senior research scientist at Advanced Decision Systems, in Mountain View, Calif., for nine years. He has published articles in such journals as *Automatica*, *IEEE Transactions on Aerospace and Electronic Systems*, and *IEEE Transactions on Automatic Control*, as well as chapters for six books. His research interests are in multisensor data fusion, multitarget tracking, situation assessment, and Bayesian network technologies.

David F. Davis, research instructor, prior to joining George Mason had more than 20 years of experience in the U.S. Army as a Corps of Engineer officer and operations researcher. He earned a master of science degree in operations research and a master of science degree in applied mathematics at the Naval Postgraduate School in 1981. He previously taught at the United States Military Academy for three years and at the State University of New York at New Paltz, New Mexico State University, and Central Texas College.

N. Ann Fields, assistant professor, earned her Ph.D. in information technology and engineering from George Mason University in 1991. Before her present appointment, she was a research assistant professor and a graduate research assistant at George Mason for five years. She also taught at the United States Air Force Academy for two years. Her professional experience includes three years with Defense Communications Systems, Virginia, and three years with the Air Force Satellite Communications System, Oklahoma.

Lee W. Wagenhals, research instructor, has been a lieutenant colonel in the U.S. Air Force for 23 years with progressive experience in identifying science technology needs, organizing government/industry team technology initiatives, and managing avionics, electronic combat, C³I, surveillance, and identification R&D programs for the U.S. Department of Defense. He earned his master of science in logistics management from the Air Force Institute of Technology in 1971. In addition to his research and management assignments, he taught at the Squadron Officer School, Air University, Montgomery, Ala., for three years.

Nursing Dean Assists in Nicaragua

School of Nursing dean Rita M. Carty, representing the World Health Organization's (WHO) Collaborating Center, spent five days in Nicaragua last summer planning a program to assist 20 Nicaraguan nurses through a five-week educational course at Duquesne University in Pittsburgh next summer.

During her trip, Carty and colleagues from a six-member U.S. health-care delegation met with Nicaraguan president Violeta Chamorro, who accompanied them to health-care facilities and pledged a strong commitment to the program. The delegation also met with the country's health-care health minister, local nurses, and educators. Members of the U.S. health-care team included health-care faculty and staff from Duquesne, the University of Pittsburgh, Miles Laboratories (who funded the trip), and the Allegheny Health Education and Research Foundation of Pennsylvania.

Several George Mason nursing faculty are traveling to Duquesne to teach portions of the program next summer, Carty explains. She says the first phase of the program addresses health-care needs on a short-term programmatic basis, using a "Train the Trainer" approach for the 20 nurses. Course content includes a basic skills update, nutritional concepts, concepts of primary health care and health assessment, maternal/child

Mitchell Named Cumbie Professor of Conflict Resolution

Christopher Mitchell, director of the Institute for Conflict Analysis and Resolution (ICAR), is the new Cumbie Professor of Conflict Analysis and Resolution. He was named to the endowed chair this semester after Mary E. Clark, the Cumbie Professor of Conflict Resolution since 1990, was installed as the first Laura C. Harris Distinguished Visiting Professor at Denison University, Ohio.

Mitchell has directed ICAR since 1991. Formerly professor of international relations at The City University, London, he joined ICAR in 1988. He received his Ph.D. in international relations at University College, London, in 1971.

Mitchell's other teaching posts include the University of Southampton and the University of Surrey. He was also a research associate with the Centre for the Analysis of Conflict, University College from 1966 to 1970, and a senior research officer with the Conflict Research Unit at the London School of Economics from 1970 to 1971.

Mitchell's books include *The Structure of International Conflict* (Macmillan/St. Martins Press, 1981), and *Peacemaking and the Consultant's Role* (Gower Press/Nicholls Publishing Company, 1981). He has published articles in such journals as *International Studies Quarterly*, *Journal of Peace Research*, and the *Journal of Conflict Resolution*.

Clark inaugurated the Harris professorship on Oct. 13 at Denison University with a lecture, "Let's Turn the World Upside Down, and See How to Fix It!" During spring semester, Clark, who has a doctorate in zoology from the University of California at Berkeley, will be actively involved in the environmental studies program and teach two courses.

Community College Center Assistant Director Named

Gilbert I. Coleman, formerly chairperson of the Division of Math, Science, and Nursing at Germanna Community College, Virginia, has been named assistant director of the Center for Community College Education. He reports to Gustavo A. Mellander, the center's director since July.

Coleman has been associated with Germanna Community College since 1970. He was employed first as a biology instructor, then in 1977 was promoted to chairperson of the Division of Arts, Science, and Nursing. Because of increases in faculty and student enrollment, the division was split into two administrative areas, and he was named chairperson of the Division of Math, Science, and Nursing.

He served twice as interim dean of Instruction and as chairperson of various college standing committees. He also taught secondary-school science courses for the Spotsylvania County public school system for seven years.

Coleman worked part-time for 17 years to earn his Ed.D. degree, which he was awarded in 1992 by the University of Virginia. He replaces the center's former assistant director James C. Palmer, who resigned in July.

nursing, concepts of community health, and advanced concepts. Content is directly related to the health master plan of Nicaragua. The nurses will also visit Pittsburgh area health-care agencies, which will be integrated into course activities.

The second phase of the project may address longer-term needs, based upon evaluation of the project, Carty says.

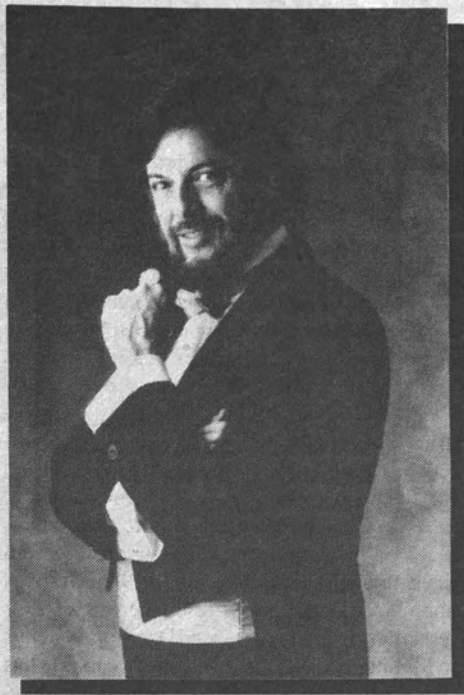
The School of Nursing's involvement with this project stems from its duties as a WHO collaborating center. The school collaborates with WHO on the education of international nurses in health policy and health-care ethics through continuing education programs, increasing the numbers of nurses from other countries in degree-status programs. In addition, the school also serves as an international consultant in nursing education and in program and faculty development. Named a WHO collaborating center in August 1991, George Mason is one of only five nursing schools in the United States officially linked to WHO.

"The project has gotten underway in record time and presents a tremendous opportunity to improve the delivery of nursing services to the country," says Carty. "We're helping to lay the groundwork for the future of nursing leadership in Nicaragua."

Calendar

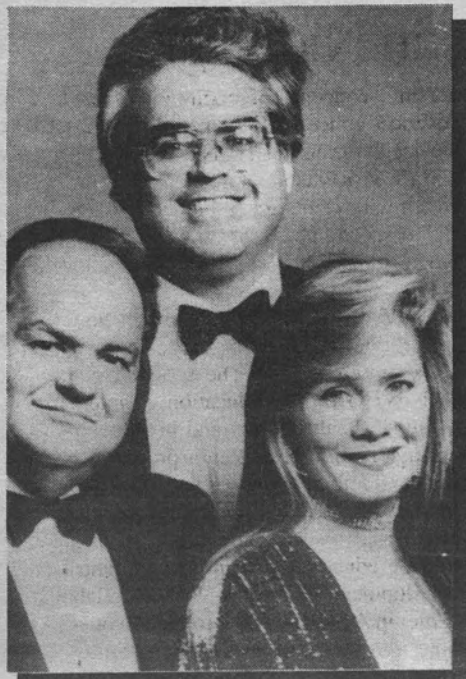
November

- 2 **Seminar:** Department of Biology sponsors Alan Christensen, "Gene Expression," 11:30 a.m. to 12:30 p.m., Robinson Hall, Room B368. Free; call x1050.
- 3 **Election Day:** On ballot are general obligation bonds for higher education, mental health, and state parks facilities; polls 6 a.m. to 7 p.m. Call x8860.
Seminar: Center for Study of Public Choice sponsors brown bag luncheon, with Jennifer Roback, "The Gender Gap," noon to 1 p.m., St. George's Hall, Wilson Schmidt Library. Free; call x2316.
Women's Volleyball: George Mason vs. Virginia Commonwealth, 7:30 p.m., Physical Education Building. Free; call x3260.
- 4 **Discussion:** Office of International Student Services sponsors "Conversations" series, with Japanese students discussing relations between Japan and the United States, 2:30 to 4 p.m., SUB I, Rooms A-B. Free; call x2970.
Reading: Fiction, Department of English presents Hilma Wolitzer, 8 p.m., SUB II, Rooms 5-7. Free; call x1160.
- 5 **Seminar:** College of Arts and Sciences sponsors dean's brown bag luncheon, "Presidential Election Analysis Panel," 12:20 to 1:15 p.m., SUB II, Room 4. Free; call x1090.
Lecture: George Mason University-Jewish Community Center of Northern Virginia Adult Judaic Lecture Series, with Marion Deshmukh, "The Distorting Mirror—Germany, Jews, and the Holocaust," 7:30 p.m., Jewish Community Center, 8900 Little River Turnpike. Members \$3, nonmembers and George Mason students \$5.50; call 323-0880.
- 6 **Conference:** Student Leadership Center sponsors Black Student Leadership Conference, 4 p.m. to midnight and Nov. 7, 7:30 a.m. to 6:30 p.m.; SUB II, Rooms 1-7. Call x2900.
Virginia Opera presents *Carmen*, Nov. 6-7, 8:30 p.m., Concert Hall. Tickets \$35, \$31, \$22; call x8888.
- 9 **Seminar:** Department of Biology sponsors Mark Walbridge, "Wetland Studies," 11:30 a.m. to 12:30 p.m., Robinson Hall, Room B368. Free; call x1050.
Seminar: Department of Sociology and Anthropology sponsors Dusko Sekulic, "Who Are Yugoslavs? Problems in the Construction of a National Identity," 3 to 4:30 p.m., Robinson Hall, Room A447. Free; call x1440.
- 10 **Seminar:** Center for Study of Public Choice sponsors brown bag luncheon, with Mark Crain, noon to 1 p.m., St. George's Hall, Wilson Schmidt Library. Free; call x2316.



General director Peter Mark brings the Virginia Opera to George Mason for a production of Bizet's *Carmen*. Call x 8888.

- 11 **Health Fair:** Center for Health Promotion sponsors Health Fair, 8:30 a.m. to 12:30 p.m., Physical Education Building, Lobby. Available are flu shots (\$10), blood glucose evaluation (\$10), and cardiovascular profiles (\$35) including total cholesterol, HDL, LDL, VLDI, triglycerides, and TC/HDL ratio, administered by Alexandria Hospital. Call x2074.
Seminar: Graduate School of Education Professional Development Team sponsors brown bag luncheon, with Jack Levy and colleagues, "Teaching Language to Minority Students in GSE," noon to 1:30 p.m., Robinson Hall, Room A329. Free; call x2046 or 2020.
Seminar: Department of Psychology sponsors faculty and doctoral students' seminar, with Susanne A. Denham, "Young Children's Understanding of and Reaction to Adult Emotions," noon to 1 p.m., SUB II, Room 4. Free; call x1340.
Concert: U.S. Army Band Veterans Day concert, 8 p.m., Concert Hall. Free; reservations required; call x8888.
- 12 **Seminar:** College of Arts and Sciences sponsors dean's brown bag luncheon, with Deborah Boehm-Davis, "The Influence of Hazardous Thought Patterns on Driving and Flying Performances," 12:20 to 1:15 p.m., SUB II, VIP 2. Free; call x1090.
Concert: George Mason University Student Dance Company, choreography by Creach/Koester and Tish Carter, 8 p.m.; Oct. 13, 2 p.m. and 8 p.m.; and Oct. 14, 8 p.m., Harris Theater. Tickets \$8, students and senior citizens \$6; call x8888.
- 13 **Seminar:** Institute for Conflict Analysis and Resolution sponsors Candace Blase, Angela Callahan, and Elizabeth Rose, "Development and Implementation of Conflict Resolution and Problem-Solving Training for D.C. Youth Institute," 11:30 a.m. to 1 p.m., Academic Module, Room 115. Free; call x1300.
Toshiko Akiyoshi Jazz Orchestra, Lew Tabackin, tenor saxophone/flute, 7:30 p.m., Concert Hall. Tickets \$22, \$19, \$15; call x8888.
George Mason University Players present *The Bacchae* by Euripides, translated by C.K. Williams, Nov. 13-14, 8 p.m.; Nov. 15, 2 p.m.; and Nov. 19-21, 8 p.m., Performing Arts Building, TheaterSpace. Tickets \$5, George Mason students and affiliates, \$3; call x8888.
- 15 **The Kalichstein/Laredo/Robinson Trio** presents "Brahms and His Friend and Enemy," 7 p.m., Concert Hall. Tickets \$22, \$19, \$15; call x8888.
- 18 **Symposium:** "Encounter and Exchange: A GMU Perspective on 1492," with four faculty panels, 1:30 to 5:30 p.m., Concert Hall. Free; call x1206.
Festival: Office of International Student Services sponsors "Passports" series, featuring people, culture, and arts of Nigeria, noon to 1:30 p.m., Lobby SUB I. Call x2970.



On November 15, the Kalichstein-Laredo-Robinson Trio present Brahms' Trio in C Minor, Opus 101, Dvorak's Trio in E Minor, Opus 90, and Tchaikovsky's Trio in A Minor, Opus 50, in the Concert Hall. Call x 8888.

- Concert:** University Choruses, Stan Engebretson, conductor, present "American Echoes," 8 p.m., Harris Theater. Free; call x1387.
Reading: Poetry, Department of English presents Leslie Scalapino, 8 p.m., SUB II, Rooms 5-7. Free; call x1160.
 - 19 **Seminar:** College of Arts and Sciences sponsors dean's brown bag luncheon, with Thomasina Borkman, "A Different Type of Knowledge: The Challenge of Self-Help Groups to Traditional Therapy," 12:20 to 1:15 p.m., SUB I, Room C. Free; call x1090.
Lecture: College of Arts and Sciences and Program for the Study of the Americas sponsor David E. Stannard, part of CAS program on Encounter and Exchange, 4:30 p.m., Lecture Hall 1. Free; call x1450.
 - 20 **Seminar:** Department of Biology sponsors Carl Reiber, University of Florida, "Cardiovascular Regulation in Crustaceans," 2:45 p.m., King Hall, Room 2053. Free; call x1050.
 - 21 **Fairfax Symphony Orchestra,** William Hudson, music director, 7:30 p.m., Concert Hall. Tickets \$25, \$22.50, \$20; call x8888.
 - 22 **Men's Basketball:** George Mason vs. Cuban National Team, exhibition game, 7:30 p.m., Patriot Center. Call x3000.
Potomac Valley Theater Organ Society presents "Vaudeville and Theater Organ," 3 p.m., Harris Theater. Tickets \$5; call x8888.
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- The Nebraska Theater Caravan is back at the Concert Hall for a third year, presenting that timeless classic A Christmas Carol. Call x 8888 for more information.*
- 23 **Seminar:** Department of Sociology and Anthropology sponsors Zeljka Sporer, "Between Professionalism and Ideology: The Development of Sociology in the Former Yugoslavia," 3:15 to 4:45 p.m., Robinson Hall, Room A447. Free; call x1440.
Concert: University Wind Ensemble and Chamber Singers, Anthony Maiello and Stan Engebretson, conductors, 8 p.m., Harris Theater. Free; call x8888.
 - 24 **Concert:** George Mason University Jazz Ensemble, Anthony Maiello, conductor, 8 p.m., Harris Theater. Free; call x8888.
 - 25 **Seminar:** Department of Psychology sponsors faculty and doctoral students' seminar, with Allan C. Boneau, "Psychoeconomics," noon to 1 p.m., SUB II, Room 4. Free; call x1340.
 - 27 **Women's Basketball:** George Mason vs. MTK Hungarian, exhibition game, 5 p.m., Patriot Center. Call x3000.
Men's Basketball: George Mason vs. Verich Republic, exhibition game, 7:30 p.m., Patriot Center. Call x3000.
 - 30 **Seminar:** Department of Biology sponsors Judith Skog, "Mid Cretaceous Ferns,"

11:30 a.m. to 12:30 p.m., Robinson Hall, Room B368. Free; call x1050.

December

- 1 **Art Show:** Washington Society of Landscape Painters, Dec. 1-23, Mondays through Fridays, 9 a.m. to 9 p.m., Arlington Campus, Metro Gallery. Free; call x8140.
Seminar: Center for Study of Public Choice sponsors brown bag luncheon, with Victor Vanberg, noon to 1 p.m., St. George's Hall, Wilson Schmidt Library. Free; call x2316.
- 2 **Discussion:** Office of International Student Services sponsors "Conversations" series, with Cypriot, Greek, and Turkish students discussing Cyprus, 2:30 to 4 p.m., SUB I, Rooms A-B. Free; call x2970.
Theater of the First Amendment presents *In Living Colors* by Charles Oyama Gordon; Dec. 2-4, 9-11, and 16-18, 8 p.m.; Dec. 5-6, 12-13, and 19-20, 2 p.m. and 8 p.m.; Performing Arts Building, TheaterSpace. Tickets \$16; call x8888.
- 4 **Gregg Smith Singers,** 8:30 p.m., Concert Hall. Tickets \$25, \$19, \$15; call x8888.
- 5 **Billy Taylor Trio in Concert,** Roy Hargrove, trumpet, 7:30 p.m., Concert Hall. Tickets \$25, \$22, \$16; call x8888.
- 6 **Holiday Concert:** University Symphony and Choruses, Col. Arnald D. Gabriel and Stan Engebretson, conductors, present *Magnificat* by J.S. Bach, 7 p.m., Concert Hall. Tickets \$10, students and senior citizens \$7; call x8888.
- 7 **Seminar:** Department of Sociology and Anthropology sponsors Roger Lancaster, "Letters Home: Love, Lies, and Death in Nicaraguan Family Life," 3 to 4:30 p.m., Robinson Hall, Room A447. Free; call x1440.
- 8 **Seminar:** Center for Study of Public Choice sponsors brown bag luncheon, with David Levy, "On Drugs," noon to 1 p.m., St. George's Hall, Wilson Schmidt Library. Free; call x2316.
- 9 **Seminar:** Department of Psychology sponsors faculty and doctoral students' seminar, with June P. Tangney, noon to 1 p.m., SUB II, Room 4. Free; call x1342.
Seminar: Graduate School of Education Professional Development Team sponsors brown bag luncheon, with David Lepard and Lila Wise, "Preparing Principals for Diverse Schools," noon to 1:30 p.m., Robinson Hall, Room A329. Free; call x2046 or 2020.
- 10 **Concert:** George Mason University Dance Company presents "Works in Progress Festival," Dec. 10-12, 8 p.m., Performing Arts Building, Dance Performance Studio. Donation \$2 to George Mason University Dance Scholarship Fund; call x1114.
Lecture: George Mason University-Jewish Community Center of Northern Virginia Adult Judaic Lecture Series, with Melvin Friedlander, "U.S. and Middle East—Political Cultures in Conflict," 7:30 p.m., Jewish Community Center, 8900 Little River Turnpike. Members \$3, nonmembers and George Mason Students \$5.50; call 323-0880.
- 11 **George Mason's Birthday.**
Seminar: Department of Biology sponsors Charles Crumly, San Diego Natural History Museum, "Size and the Origin of Variation and Novelty," 2:45 to 4:15 p.m., King Hall, Room 2053. Free; call x1050.
Faculty Ball: George Mason University holiday dinner-dance, 8 p.m., Patriot Center. Call x8827.
- 14 **Seminar:** Institute for Conflict Analysis and Resolution sponsors Ira Shoor, "The Political Peace Movement in the United States," 11:30 a.m. to 1 p.m., Academic Module, Room 115. Free; call x1300.
- 16 **Kathleen Battle, soprano,** 7:30 p.m., Concert Hall. Tickets \$16; call x8888.
- 19 **Nebraska Theater Caravan** presents *A Christmas Carol*, 2 p.m. and 7 p.m., Concert Hall. Tickets \$16; call x8888.

First Komodo Dragons in U.S. Hatch on Mason Campus

By Kelly Stimmell

In the movie *The Freshman*, Matthew Broderick agrees to deliver a Komodo dragon, a rare and endangered lizard, to Marlon Brando—illegally. George Mason biology professor Geoffrey Birchard has also had Komodo dragons delivered to him—but legally, as part of a joint project with the National Zoological Park, in Washington, D.C.

Birchard, a herpetologist, was called on by the zoo's curator of herpetology, Dale Marcellini, last January to incubate 10 of the 26 eggs that were the result of a monthlong courtship between the zoo's two 10-year-old lizards. The adult lizards had been given to the zoo in 1988 by the ambassador of Indonesia. During the eight-month incubation period, several eggs died, but on Sept. 13, in one of the university's labs, the first dragon hatched out of his leathery-shelled egg. Twelve others quickly followed their brother's lead. Two more are still to go. "Everyone here is beaming with pride," says Marcellini.

Marcellini turned to George Mason University because he literally did not want to put all his eggs in one basket and wished to avoid potential disasters, like electricity failure or fire, that could destroy the eggs. And George Mason had higher-quality incubators.

The university's eggs hatched first because they were kept at a slightly higher temperature, which accelerated the process. "Things went extremely well," says Birchard. "We're looking forward to doing other projects [with the zoo] as well."

This is not the first time Birchard has been involved with the National Zoological Park. Over the past five years, he has served as a consultant for the zoo. And in return the zoo has donated surplus eggs—including those of pythons and milk snakes—to Birchard for his research on the physiology of developing animals.

During the dragons' incubation period, he performed metabolic studies on the embryos, recording the gas exchange between the eggs and the environment. "This proved to be quite an experience," says Birchard. "Every day for the past eight months I had to come in to make sure the eggs were okay. But professionally, this was a once-in-a-lifetime opportunity."

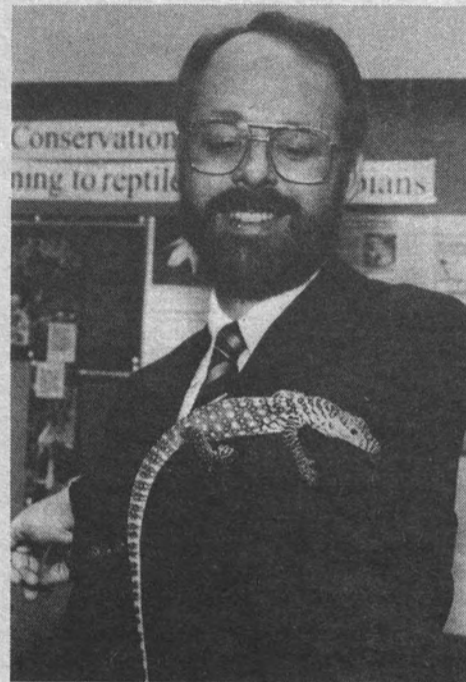
When born, Komodo dragons, whose natural habitat is the Komodo and Flores islands, off the

coast of Indonesia, are about 8 to 16 inches long and weigh up to 4 ounces. Their yellow, brown, and black skin is heavily patterned with chevron and circle markings—and yes, they have a forked tongue. Gradually their striking skin turns a uniform gray, and eventually they can weigh as much as 300 pounds and reach a length of more than 10 feet, making them the world's largest lizards. The National Zoological Park is the first place to breed the lizard outside of Indonesia.

At present, all the young Komodo dragons are back at the zoo, happily feeding on mice and insects. A few are already on display at the Reptile House. "These guys are like scaly pandas when it comes to getting people excited," says Marcellini. Plans are being discussed to send some of the babies to other zoos and to loan the adult female dragon to the Cincinnati Zoo, the only other place in North America where Komodo dragons are kept.



Baby lizard comes out of his shell with some help from a friend. (Photo by Jessie Cohen, National Zoological Park, Smithsonian Institution)



Mason biologist Geoffrey Birchard with five-week-old Komodo dragon. (Photo by Jessie Cohen, National Zoological Park, Smithsonian Institution)

Former Budget Analyst Returns as Mason Money Manager

By J. Kenneth Townsend

He's in the money. Mason Money, that is. Peter Mohle, a former budget analyst at George Mason, has returned to manage the Mason Money program after spending more than two years at Virginia Theological Seminary.

"No, I wasn't studying for the Episcopal priesthood," says Mohle, who received his B.I.S. in accounting from George Mason in 1977. Instead, as an accountant for the seminary, he organized its records of fixed assets and depreciation for the first time in the divinity school's nearly two centuries of history.

But the lure of developing new electronic accounting and budgeting systems for the Mason Money program was irresistible to Mohle, who was seeking new challenges after "two nice, quiet years" at the seminary. His previous eight years with the university familiarized Mohle with George Mason's financial operations, so he hit the ground running in his new assignment.

During his stint with George Mason from 1981 to 1989, he handled petty cash, then reconciled university and state records in the Account-

ing Office. He moved to the Budget Office in 1986, where he worked with the Auxiliary Enterprises, Physical Plant, and capital outlay accounts.

Just what is Mason Money? Basically, it's a debit card system that presently can be used at all university food service locations in lieu of cash. "A debit card is the opposite of a credit card. You put the money on account up-front, then use it when you need it. The main benefit is convenience," says Mohle.

The Mason Money card is a specially encoded campus photo ID card. To open an account, a minimum \$25 deposit must be made. There is no yearly fee, and the account is active as long as the cardholder is a George Mason employee and continues to maintain a \$10 balance. Accounts can be opened, balances checked, and deposits made at the All-University Card Office in SUB II.

In addition to campus dining areas, the Domino's Pizza outlet at University Mall also accepts Mason Money, says Mohle.

"So far, the pilot program with Domino's has been successful. Use of Mason Money has been increasing over the weeks," he says. "Other off-campus businesses in the immediate area are interested in accepting the cards for payment."

Starting spring semester, Mason Money can be used at the university bookstore for any items sold there. "Special scanners are being installed, similar to credit card readers, and sales are rung up on the cash register," explains Mohle.

"My personal view is that Mason Money is better than cash. Mason Money does not generate revenue for the university. It is a service. Users have flexibility, and can gear their accounts toward their eating and spending patterns," he continues.

Mohle notes that accounts are debited immediately when purchases are made, and balances are printed on cash register receipts.

Accounts are also available for departmental use or for short- or long-term programs and conferences. Departmental accounts have an inclining balance feature set at the level of the purchase order amount. A detailed record of each transaction verifies each use of the card as to place, time, and amount.

Fewer than two dozen faculty and staff members presently are using Mason Money, although he would like to see more employee accounts

opened, says Mohle.

During summer orientation, all new students without structured meal plans were encouraged to open Mason Money accounts. So far, only two students have closed their accounts, but for reasons other than dissatisfaction, says Mohle.

All of the hardware and software for the Mason Money system is leased by Marriott Dining Services for a three-year period; then it becomes university property.

The Mason Money program is part of the new All-University Card system, which is replacing the current identification cards. The All-University Cards can be used for campus library and Washington Research Library Consortium privileges, after-hours access to building entrances equipped with electronic card readers, and other benefits presently available with the current ID cards.

Electronic readers have also been installed in the Field House and in Center for the Arts Concert Hall and Patriot Center ticket offices. The system verifies patron status and ensures that faculty, staff, and students receive benefits such as free access to the Field House and free parking at Patriot Center events.

Next summer, plans call for issuing all faculty, staff, and students encoded All-University Cards that are the same size as standard credit cards. The new cards will have the user's photo, identification number, and magnetically encoded information, says Mohle.

Meanwhile, Mohle says he welcomes suggestions for improving the system, which is under the umbrella of Auxiliary Enterprises. For more information about opening Mason Money accounts, call x2870.

Fall Census Shows Enrollment Stabilizing

By J. Kenneth Townsend

The graduate-student and extended-studies populations at George Mason have grown this fall, while the headcounts of lower-division returning students and out-of-state undergraduates are smaller than last fall.

Overall, however, the 1992 fall census reveals that the university's enrollment has stabilized, according to Institutional Planning and Research. "For all intents and purposes, we have the same enrollment as last year," says Patricia Riordan, dean of Admissions. Total university enrollment is 20,829 this fall, compared to 20,693 this time last year, a difference of less than 1 percent.

The numbers showing fewer returning lower-division undergraduates and fewer out-of-state undergraduates "probably correlates with tuition increases," says Riordan. Last fall, the headcount of lower-division returning students was 3,090, compared to 2,778 this fall. The headcount for out-of-state undergraduates dropped from 1,395 last fall to 1,175 this fall.

On the other hand, the headcount for degree-seeking graduate students has grown from 4,987 last fall to 5,434 this fall.

Also higher is the headcount for extended-studies and guest matriculant undergraduate students, 406 this semester compared to 311 last fall.

This semester, 12,693 students are degree-seeking undergraduates (9,478 full-time and 3,215 part-time). The total headcount for undergraduates, including extended-studies students, guest matriculants, and concurrent high school students, is 13,099 (9,525 full-time and 3,574 part-time).

Master's-degree students total 4,513 (1,007 full-time and 3,506 part-time), doctoral, 921 (235 full-time and 686 part-time). Law school enrollment totals 663, with 346 full-time and 317 part-time.

More females than males are enrolled at George Mason, 11,310 women to 9,519 men.

Enrollment of minority students continues to grow. Hispanic students show the greatest percentage increase, 8.5 percent, to a total of 761 compared to 701 last fall. Asian American enrollment increased 7.8 percent, from 1,897 last fall to 2,045 this semester. Enrollment for African Americans increased from last fall's 1,101 to 1,158 this semester, up 5.2 percent.



Peter Mohle, Auxiliary Enterprises