

William and Mary

NEWS

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Musick to head research team

VIMS wins right to study world's oldest fish

John A. Musick, professor of marine science at the Virginia Institute of Marine Science is coordinating the work of a team of researchers working on a project for which scientists around the world have vied.

Musick's team has been given the opportunity to study two specimens of coelacanths — prehistoric fish dating to 300 million years ago.

"These animals are important because they are the closer to our evolutionary line than any other fish," said Musick.

The two specimens were collected by an expedition team jointly sponsored by the Explorers Club of New York City and the New York Aquarium. They were collected in the Comores Islands between northern Mozambique and Madagascar in the Indian Ocean. The Explorers Club accepted proposals from the American scientific community for research on these marine animals, and the VIMS proposal was awarded the specimens.

The coelacanths were thought to be extinct

for about 70 million years until one was caught in 1939 off the coast of South Africa. The coelacanths were once the earth's dominant fish and began to disappear about the time the dinosaur population died out.

One of the fish is an adult female about six feet long and weighing 130 pounds. This specimen may be pregnant. That will be a real bonanza, said Musick, because instead of one fish scientists will have six or eight specimens to study.

Because this is a unique research project, unusual methods will be used to examine the fish which are frozen. This will probably be the first time that the highly sophisticated medical diagnostic tool at Riverside Hospital, the CATSCAN, will be used to unlock the mysteries of a fish. Magnetic Resource Imaging will also be used and the first DNA structural analyses on coelacanths will be carried out by the research team.

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Busch donates \$600,000 for soccer field

First phase underway, playing surface to be ready by fall 1988

The Anheuser-Busch Foundation has pledged \$600,000 toward the construction of a new multipurpose athletic facility at the College.

The gift will be used for the construction of an outdoor multipurpose facility with artificial turf, lights and seating for 2,500. It will serve as the home of William and Mary's intercollegiate soccer teams and as additional playing and practice space for other varsity sports, and will support an expanded recreational sports program for all students during the evening hours. The facility will be located near the Busch tennis courts in back of William and Mary Hall and near the new athletic complex currently under construction.

Jerry E. Ritter, vice president and group executive, Anheuser-Busch Companies, Ritter presented a \$200,000 check — the first of three installments — to President Verkuil at a dinner at the Kingsmill Golf Club Thursday evening.

Verkuil said an investment of this kind is vital to the university's future: "William and Mary's prominence is based on a partnership between the public and private sectors," he said. "We are grateful to the Anheuser-Busch Foundation for

assisting us as we seek to enhance the quality of our facilities and programs. Our friends at Anheuser-Busch have always been good corporate neighbors, so we are pleased that the name of the new facility will recognize this important contribution. Generations of future students will benefit from this gift in many ways." The new facility will be named "Anheuser-Busch Field."

Athletic Director John Randolph said the gift comes at an ideal time. "Our existing fields are used at their capacity," he said. "This kind of facility will give our nationally ranked men's and women's soccer teams an appropriate place for their games, in a comfortable setting for viewing by students and the community."

"The Anheuser-Busch Foundation hopes its contribution will benefit both the College and the surrounding Williamsburg and James City County communities for years to come," Ritter said.

The university maintains a large and diverse athletic program, fielding 22 intercollegiate men's and women's teams at the NCAA Division I level and an extensive program of intramural activities.

The first phase of construction for the soccer stadium project has already begun. Money previously budgeted is being used to grade the area behind William and Mary Hall and the Commons for two playing fields, one of which will be the soccer facility.

According to the office of facilities, planning

and construction, the entire project will cost \$1.2 million, most of which will be paid for with private funds such as the Anheuser-Busch gift.

It is hoped that the soccer playing surface will be usable by the fall of 1988, with lighting and seating completed sometime after that.



Jerry E. Ritter, left, vice president and group executive, Anheuser-Busch Companies, presents a check for \$200,000 to President Paul R. Verkuil, the first of a three-part donation for a new sports facility on campus.

Black student conference scheduled Jan. 15-16

The second annual Black Student Leadership Development Conference at the College of William and Mary will be held Jan. 15-16.

Speakers will include Susan Taylor, editor-in-chief of *Essence Magazine*; Dr. Reginald Wilson, director, office of minority concerns, American Council on Education; Judge Frederick Hurst, commissioner, Massachusetts Commission Against Discrimination; and James Meredith, Cincinnati attorney.

Daily inquiries from across the country are

expected to raise the attendance over last year's. Registration closes Jan. 1.

Planned by Carroll Hardy, associate dean of student affairs and director of the office of minority affairs, the program is designed for black students who wish to participate effectively in all aspects of campus life.

Sessions on how to run for campuswide office, effective leadership styles, the role of Greek-letter organizations with an African heritage in developing student leaders and commu-

nity outreach strategies will be held Saturday, Jan. 16. There will also be workshop sessions on how to connect with black alumni, the psychology of the Afro-American student and how to negotiate the politics and racial climate on campus.

Judge Hurst will be the luncheon speaker on Saturday, Jan. 16 and will take as his topic "What Happened at the University of Massachusetts? Can It Happen on Your Campus?"

Meredith will take as his topic, "Looking

Forward from Old Miss: What Has Changed for Black Students on Predominantly White Campuses."

Miss Taylor has not announced the topic of her talk, which will be open to the general public as well as conference participants, at 7 p.m., in the Campus Center ballroom.

Fee for the conference is \$40, which includes Saturday luncheon and dinner.

For further information, please contact Ms. Hardy, ext. 4887.

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Whitaker retires as university comptroller

After 28-1/2 years of watching over the College's funds, F. E. "Sam" Whitaker, university comptroller, has hung out the "Gone Fishing" sign; he's retired.

On his last day at work, Nov. 21, he spent a lot of time going around saying goodbye to his staff.

It was, he admitted, a hard day. Whitaker has a great affection for the College and his co-workers, and they for him. Kenny Greene, treasurer, who recently celebrated his 30th anniversary at the College, says he and Whitaker have been "co-workers." "He worked with you," said Greene. "He was always willing to take the extra step to get things done." Whitaker, he explained, would take preventive measures to insure that issues did not become problems. "There wasn't anyone who didn't like him; students, faculty, staff, they all enjoyed working with him. I hate to see him leave. ... I can't believe we've been working together as long as we have."

Whitaker was on campus during the 1957-58 session doing an audit for the State Auditor of Public Accounts in Richmond. The bursar, Hugh Sisson, and Treasurer Vernon Nunn asked him to stay on.

"He was considered one of the finest accountants in the state auditor's office," said Nunn, "and he proved to be most efficient. I don't know what I would have done without him." Whitaker returns the compliment in his reminiscences: "I couldn't have had a better person to work with; and he can still outwork me."

Whitaker has served the College in capacities of increasing responsibility during his tenure. He was assistant treasurer and internal auditor from 1959 to 1969, treasurer from 1969 to 1981 and university comptroller since 1981.

In its resolution marking his retirement, the Board of Visitors noted that Whitaker's dedication was recently recognized by the state. William and Mary is one of only three Commonwealth colleges and universities to meet the governor's newly promulgated financial management standards:

"During the past 28 years, Mr. Whitaker has been respected among his peers in Virginia and among the staff at William and Mary for his special leadership in developing sound financial procedures and practices for the College. His dedication, perseverance, conscientiousness and integrity have preserved and enhanced William and Mary's reputation for sound fiscal management."

His first days on campus, however, were not momentous. Whitaker smiles as he recalls his initial encounter with President J.A.C. Chandler, a former Navy admiral known for his crusty disposition. "When are you going to be through with that audit," Chandler inquired of Whitaker one day. The tone of his inquiry suggested the president thought the work was taking too long. "That was completed a long time ago, sir," Whitaker responded. "I am now a member of your staff." The president retreated to his office without comment.

When Whitaker came to campus the student body was about 2,600, the budget around \$20 million. Today the College has an enrollment of over 6,000 and a budget of \$90 million. One of the largest changes in which Whitaker has taken an active role is the computerization of the accounting process. He helped install a computerized financial reporting system with the capacity to access directly the mainframe computer of the campus. Currently the system is being refined to allow individual departments to access and monitor their accounts.

Whitaker has also guided the development of a diversified operations system that does not allow one person to control or manipulate any part of the College's funds. "Regardless of what you do, if a person wants to do something wrong, they'll always find a way, but in the years that I have been here we have been very fortunate, we've had good, honest and dedicated



F. E. "Sam" Whitaker, university comptroller

people working for the College.

More than 600 different private fund accounts as well as the state fund account have been conscientiously cared for by Whitaker and his staff. Private fund contributions include not only cash but also gifts in kind such as books to the library, antiques collected by the Committee to Refurnish the President's House, stocks, bonds and, at one time, the value of a horse. A donor, recalls Whitaker, gave the College two horses but one died enroute to campus.

Whitaker has also seen some unusual accounting situations in his dealings with students. He recalls one student who went out and bought a cemetery lot to prove he was a Virginia landowner. Unfortunately, says Whitaker, the certificate was not enough to qualify the student for in-state tuition.

Whitaker says he has tried to play a low-key role on the job, and most who know him would agree that his quiet conscientious way of getting things done has been the hallmark of his career on campus. He has left no trail of broken pencils behind him. He has worked quietly with his staff and guided them through each expansion of the business office that has come as a natural adjunct to the growth of the university. People often did not know the extent of the problems we faced, explained Greene, because Whitaker had taken the situations and worked through them without letting them become a problem.

A financial officer under four presidents, Whitaker has been a part of the administrations of J.A.C. Chandler, Davis Y. Paschall, Thomas A. Graves Jr. and Paul R. Verkuil, and has worked under vice presidents Hugh Sisson, Robert English, William J. Carter, Lawrence Broomall, Andrew Fogarty and William Merck.

Ask him what was the most enjoyable time of his tenure and he smiles and responds, "The job has always been enjoyable. I do not regret any time I've spent at the university." And Whitaker includes the lean times when William and Mary was asked to return a portion of its budget to the state to reconcile unexpected deficits in Richmond.

"When I left Richmond, Joseph James, assistant to the state auditor, told me that if I took the job at William and Mary I should burn my bridges behind me and never look back. He wanted to tell me that when you make a decision stick with it, even if the going gets rough, don't look back and second guess yourself." Whitaker took that advice and there is a sense of satisfaction in his voice when he talks about his years on campus.

"Being involved with the university and its people and being able to work here has been the best accomplishment I can think of," said Whitaker. He adds, "I have seen the new campus open up and watched this institution grow into a strong university." He has taken pride also in the fact that William and Mary has always enjoyed a competitive enrollment edge.

One of the things for which Whitaker will long be remembered is the organization FOCUS, Finance Officers for Colleges and Universities—State of Virginia, which he helped to establish. This organization enables financial officers across the state to network for problem solving and has provided a clearinghouse for fiscal information. It also provides a forum for officers and state officials to get together and discuss new regulations in order that individual institutions can better implement directives from Richmond.

For members who are unable to spend any extended time away from their work at national conferences or seminars, FOCUS provides pro-

fessional enrichment programs that fill the gap. The first meeting was attended by 20; attendance at the last meeting in November was 150. Whitaker has also been a past president of the College and University Internal Auditors.

Whitaker has taken an active interest in the Williamsburg community. When he first came to town, he says, he found no houses to buy and very little land being developed for homes. There were also no stoplights in town.

To learn more about his adopted home, Whitaker, who grew up in Kentucky, went to a meeting of the James City County Board of Supervisors. He recalls a disgruntled curmudgeon on the board pointing a bony finger at him at one point in the discussion and announcing it was "johnny-come-latelies" like him who were causing all the problems in the area. Whitaker tried to avoid the accusing finger by slumping down in his seat.

The supervisor, since retired, could not have known that he was pointing out a resident who would contribute a great deal to his community. Whitaker has been president of the Kiwanis Club, a member of the governing board of the United Methodist Church and president of the Williamsburg Regional Library. In the last post he was instrumental in working with planners to set up a regional facility. He has also served as president of the Berkeley School PTA and a member of the James City County Planning Commission. "I've seen Williamsburg grow from a very small town and develop into a thriving metropolitan area," said Whitaker.

Whitaker's wife Frances, treasurer for James City County-Williamsburg, for many years, will also retire this year. Because of the possible overlap of their professional assignments, Sam and Frances didn't discuss business at home. The Whitakers have been married 37 years. They have one daughter, Peggy, who is currently on the staff at Swem Library. Whitaker says he married his wife on her birthday, March 18, so that if he forgot either one he would only be in the dog house for one day of the year instead of two.

In retirement, Whitaker plans to catch up with some chores around the house he has been putting off, go fishing and spend more time with photography. His office was decorated with several scenic views of the Rockies he had taken. He says he would also like to play some golf, although he admits he'll probably tear up some ground getting back into his game.

Suben to lecture in Poland

Joel Suben, assistant professor of music, has been invited to spend a week in Katowice, Poland, as a special guest of the Gregor Fitelberg Conducting Competition. Named for a famous Polish conductor and composer, the competition, established in 1979 is held every

four years for young conductors and is international in scope.

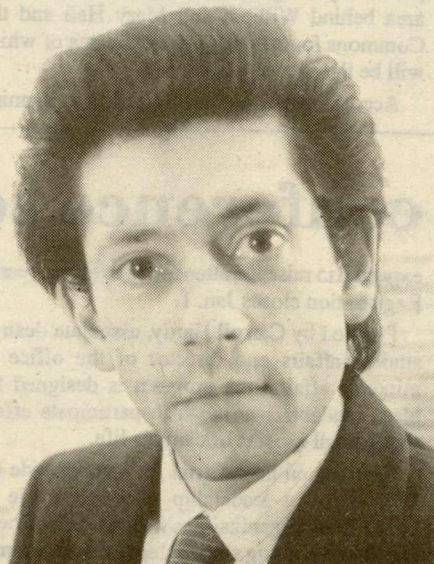
While in Katowice, Suben expects to give talks to students about performing American music, especially contemporary orchestral works. He also plans to speak as a contributing American conductor to sessions at the music conservatories in Katowice and Cracow.

Before he leaves for Poland, Suben will attend the world premiere performance of his music, "Five Songs on a Text by Goethe," a chamber music piece to be performed in Abscon, N.J., at the Noyes Museum.

In April 1986, Suben was guest conductor for the Silesian Philharmonic in Katowice, one of the nine major orchestras in Poland.

Suben has served as conductor of numerous orchestras, including the American Symphony Orchestra in New York, the ROW Filharmonia and the Orchestra of the Katowice Conservatory in Poland. In 1985 he was invited to conduct for the Queen Orchestral Society in New York.

In October Suben was named principal conductor of the Center Orchestra of Maregate, N.J., for the 1987-88 season, following a series of guest engagements there during the past summer. The Center Orchestra is affiliated with the Jewish Community Center of Atlantic County, N.J., which includes Atlantic City.



Joel Suben

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Sutlive is biographer of Borneo statesman

For the past three decades, Vincent Sutlive, professor of anthropology, has chronicled the life, culture and language of the Iban people on the Malaysian island of Borneo. There is an urgency about his work these days, because the Iban as a people are changing as rapidly as the once-pristine rain forests they inhabited. Soon, the rain forests and the Iban culture will be lost to first-hand observers.

The Sarawak Literary Society, a government-sponsored agency within the Federation of Malaysia, has recognized Sutlive's considerable knowledge of the Iban by commissioning him to write the first in a series of political biographies on those who played important roles in the country's history.

The man whose life Sutlive is chronicling was the chief of the Iban people, and to most Westerners his name is perhaps as enigmatic as his life: Tun Temenggong Jugah anak Barieng, or simply Jugah. "In many ways, Jugah is an example of the best features of the Iban people and their culture," says Sutlive, who is collecting data from newspapers and government documents for the past half-century and from interviews with 200 people who knew Jugah. Among those Sutlive has interviewed is the first prime minister of Malaysia, Tunku Abdul Rahman.

The Iban are the largest native tribe on Borneo, which is concentrated in the East Malaysian state of Sarawak. A preliterate people whose language has only begun to be taught in the Malaysian schools this year, the Iban adapted to their tropical environment by shifting cultivation and headhunting, a terror tactic for which they became world famous.

Jugah was born in approximately 1903 (the Iban kept only oral records since they had no writing system). In his youth he was a nomadic hunter. "He led a large Iban force in joining the Australians who parachuted into North Central Borneo during World War II and liberated the area from the Japanese," says Sutlive. During the battles in Japanese-held areas, Jugah restrained some of the Iban from taking Japanese heads, having once been a target of rival head-hunters himself.

In 1953, Jugah was chosen to represent the Iban and other indigenous groups of Sarawak at the coronation of Queen Elizabeth II. Jugah's appearance in London with his long, flowing ponytail "made an enormous impression," says Sutlive. "Certain of his qualities came to be called 'Jugahisms' by the British; one belief was that his hairstyle inspired the Beatles' look, with its long hair and bangs."

His status as a Western trendsetter notwith-

standing, Jugah rose to the position of paramount chief of the Iban in 1955, and under the new Federation of Malaysia, became the first



Vincent Sutlive

federal minister for Sarawak affairs. "Although Jugah's illiteracy was used as an excuse not to appoint him as first governor of Sarawak, he probably used his office more effectively than the governorship, traveling endlessly and representing the concerns of the Iban and other native peoples to the Malaysian government," Sutlive explains.

In 1974 Jugah resigned as federal minister to become the first president of the Department of Customary Law. "Customary law among different tribal groups in Southeast Asia is unbelievably elaborate but fairly uneven," says Sutlive. "Jugah worked to collect, standardize and codify customary law of the Iban. The project continues, and it may be the most significant contribution he made."

Sutlive himself has made significant contributions to the body of knowledge about the Iban, including an ongoing project to create the first modern comprehensive Iban-English dictionary. He interrupted that work for the biography of Jugah, which is to be submitted to the Sarawak Literary Society by Dec. 1988.

In terms of both anthropological theory and historical preservation, Sutlive's research on the Iban is vital to Southeast Asian scholarship because it brings forth previously unrecorded new materials, for use by future generations.

Anthropology

Mario D. Zamora has accepted an invitation to serve as a Ph.D. thesis examiner in anthropology for two Indian universities: Utkal University in Orissa and Panjab University in the Punjab. His invited review of Sang-Bok Han's edited book *Asian People and Their Cultures: Continuity and Change* will appear in the *American Anthropologist*. His reviews of *Men Who Migrate, Women Who Wait: Population and History in a Portuguese Parish* by Caroline Brettell and *Good Families of Barcelona* by Gary McDonogh will be published in *The Annals of the American Academy of Political and Social Science*.

Zamora has been appointed organizer and chair of the 1988 anthropology session of the Virginia Social Science Association to be held in April at Sweet Briar College. He has also accepted an invitation to serve as editorial consultant in cultural anthropology for *Heritage*, a magazine of Filipino culture, arts and letters, published in California.

Biology

J.L. Norcross and C.R. Terman presented a paper on "The Influence of Dominance/Subordination, Encounter Site, and Olfactory Cues on Behavior and Spatial Dynamics of Male *Peromyscus leucopus noveboracensis*" at the annual meeting of the Animal Behavior Society at Williams College, Williamstown, Mass.

Also at that meeting, Terman and S.L. Creigh presented a paper on "Delayed Puberty in Male Prairie Deermice: Behavioral-Physiological Influences of Contact with Females or Their Urine."

Chemistry

Gary C. DeFotis, associate professor, delivered a paper, "Magnetic Properties of $Mn(SCN)_2(ROH)_2$ Compounds," at the 32nd annual Conference on Magnetism and Magnetic Materials held in Chicago, Nov. 9-12. Former undergraduate research students Ellen McGhee, Kathy Echols and Robert Wiese were co-authors on this paper. DeFotis also presented the session overview for the Compounds and Magnetochemistry session.

Computer Science

Larry J. Morell, assistant professor, presented a paper titled "A Model for Code-Based Testing Schemes" at the fifth annual Pacific Northwest Software Quality Conference in Portland, Ore., Oct. 19.

Morell spent six weeks this summer as a visiting scientist at the Software Engineering Institute at Carnegie-Mellon University. The result of his work was a curriculum module titled "United Testing and Analysis." The module has been published and is now being distributed nationwide to software engineering educators. Morell gave an overview of the module at the fall faculty development workshop of the SEI in Pittsburgh Oct. 20-21.

English

"Daniel Deronda and Carlyle's Clothes Philosophy" by Mary Ann Kelly, assistant professor, is included in the October issue of the *Journal of English and Germanic Philology*.

Government

Alan J. Ward read a paper "Challenging the British Constitution: The Irish Free State and the External Minister," at the Southern Conference on British Studies in New Orleans, Nov. 13

Music

William DeFotis, assistant professor, had his *Piece for Flute Solo with Tape Accompaniments* performed in a concert of new music at the international convention of the American Society for Cybernetics on Dec. 4 in Urbana, Ill. An LP recording of this work will be released early next year on the Contemporary Record Society Label.

Physics

Recent publications by members of the department include:

"The v_1 and v_3 Bands of $^{16}O_3$: Line Positions and Intensities" by J.-M. Flaud, C. Camy-Peyret, V. Malathy Devi, C. P. Rinsland and M.A.H. Smith appeared in *Journal of Molecu-*

lar Spectroscopy 124 (1987): 209.

Physics Review B 36 (1987) includes "Band Theory Analysis of Anisotropic Transport in La_2CuO_4 -based Superconductors" by Phillip B. Allen, Warren E. Pickett and Henry Krakauer (p. 3926) and "Local-Density Prediction of the Fermi Surface of UBe_3 " by M. R. Norman, W. E. Pickett, H. Krakauer and C. S. Wang (p. 4058).

Three articles appear in *Physics Review D* 36 (1987): "Perturbative QCD and Electromagnetic Form Factors" by C. E. Carlson and Franz Gross (p. 2060); "Determining Probabilities and Momentum Fractions from Distribution Amplitudes" by C. E. Carlson and J. L. Poor (p. 2070); and "Isoscalar Axial-Vector Form Factor at High Q^2 " by C. E. Carlson and J. L. Poor (p. 2169).

D. A. Papaconstantopoulos, W. E. Pickett, H. Krakauer and L. L. Boyer co-authored two articles appearing in the *Japanese Journal of Applied Physics* 26 (1987): "Calculations of the Superconducting Properties of Cu-O-based Perovskite-Like Structures" (p. 1091) and "High-Temperature Superconductors: Electronic Structure Changes Due to Replacement of La with Ba and Sr in the Cu-O-based Systems" (p. 991).

Psychology

Kelly G. Shaver recently served as chairman of the steering committee for the 10th annual meeting of the Society of Southeastern Social Psychologists, held this year at the University of Georgia. Enroute to the meeting, Shaver presented a colloquium "Blame: How to Assign It and How to Avoid It," at the University of South Carolina.

Sociology

Vernon H. Edmonds and Edwin H. Rhyne attended the annual meeting of the Mid-South Sociological Association in Memphis, Tenn., Oct. 28-31. Professor Edmonds presented a paper entitled "The Derailment of Unacceptable Messages in the Social Sciences." Professor Rhyne delivered two papers, "Looking Afresh at the Third World: On the Virtues of Theoretical Innocence," and "Voting Changes Among Hispanic Americans, 1980-1986."

School of Education

Fred Adair, professor, in cooperation with Daniel Collins, has published a computer-scored and -interpreted form of the *Adjective Check List* by Harrison G. Gough. It will be marketed by Consulting Psychologists Press, Palo Alto, Calif., as the Collins-Adair Interpretive System.

William Losito, associate professor, presented a paper titled "Religion and Public Education: Formulating a Rational Legacy" at the annual meeting of the South Atlantic Philosophy of Education Society, held at Duke University.

The Pelican Publishing Company has released *Write It Right: A Guide to Better Messages* by Bob Maidment, professor. Pelican has also released a fourth printing of his *Robert's Rules of Disorder: A Guide to Mismanagement*. Maidment also contributed to an article on "Becoming a Better Listener," which appeared in the Nov. issue of *Vitality Magazine*.

Joyce VanTassel-Baska, professor, has been appointed financial secretary for the National Association of Gifted Children (NAGC). She has served on its board of directors since 1984. VanTassel-Baska presented a workshop titled "Developing Scope and Sequence in Curriculum for Gifted Learners" at the November NAGC meeting in New Orleans. She also presented two workshops at the Virginia Association for the Education of the Gifted held in Richmond.

Staff

Anne M. Pratt, director of foundation relations, university advancement, attended the annual meeting of the Association for the Study of Higher Education forum Nov. 20-24 in Baltimore, Md.

John Freeman, assistant director of the College Bookstore, has been elected president of the Virginia College Stores Association. This organization represents 67 college bookstores across the state and 110 vendors of books, clothing and supplies to those stores.

Mathematicians tackle teaching/research

Each semester, about a dozen faculty members explain, drill, challenge and inspire hundreds of William and Mary students in the sciences called mathematics. The enormity of that task might seem all-consuming to some, but department members, in addition to being dedicated teachers, are active researchers whose externally funded research activity has increased dramatically in the past year.

One-third of the mathematics department faculty received support from external agencies for research interests during the past year. Grants in excess of \$240,000 have been awarded by the National Science Foundation, Office of Naval Research, Air Force Office of Scientific Research and the National Aeronautics and Space Administration.

"Let me hasten to add that the amount of research dollars is not a good way to measure the quality or quantity of research in mathematics," says new faculty member and Class of 1961 Professor Charles R. Johnson.

"Mathematics is a good example of a subject in which someone can be active in the discipline and engaged in research and not get external funding for it," says Johnson. "It's quite common in math departments that only a modest fraction of those engaged in research receive funding."

Johnson is a good devil's advocate on the subject of funded research. At Clemson University from 1984 to 1987, he was partly responsible for obtaining a \$3.25 million grant on discrete mathematics and computational analysis. At William and Mary his projects include a contract from the Office of Naval Research and a grant from the National Science Foundation, both in his principal specialty of matrix analysis.

"Over the last couple of decades, the major priority was handling a burgeoning demand for computer science teachers and courses," says math chairman David P. Stanford. Between 1970 and 1984, nearly all new mathematics faculty members were computer scientists. When computer science was launched as a separate department in 1984, the faculty shortage in mathematics quickly became apparent.

Along with Johnson, two other faculty members have been added to the math department this year. Leiba Rodman from Arizona State University is a visiting professor for 1987-88, and Douglas Shier, also from Clemson University, will join the department in January.

The department is also engaged in a long-term effort to bring in more visiting faculty. Two such professors for the spring semester include John Maybee from the University of Colorado

and Ion Zaballa from the University of Vitoria, whose visit is sponsored by the Spanish government.

Stanford and Johnson say they hope to develop a research group that will be a leader in the field of matrix analysis and its applications, a field which relates well with current faculty specialties and the department's master's program in operations research.

In addition to stepped up research activity, the mathematics faculty is focusing on new ideas for meeting the challenge of classroom teaching. Recently, several faculty members from the mathematics, physics and computer science departments attended the National Academy of Sciences meeting on the teaching of calculus, which called for major reforms.

"There is a real concern about the teaching of calculus, that to a large extent it has become the teaching of rote techniques for problem solving without the understanding of how to change those techniques when the problem has an unusual twist to it," says Stanford. Students, especially those who are going to be using calculus in their professions, must understand the concepts and theories behind the techniques.

Currently, about 750 students take calculus each semester. Stanford and other faculty

members are forming plans to help improve the calculus curriculum, from splitting the large course sections into smaller ones, to introducing personal computers for out-of-classroom drill and in-class instruction. They hope to get enough funding to start a pilot program next fall incorporating some of their ideas.

Like most faculty members at William and Mary, Stanford and Johnson are enthusiastic about perfecting what they do. They see improvements in teaching as intrinsic to their roles as mathematicians. "Most of what I do stems from a deep curiosity about how things work," says Johnson. "My main goal is to have as much of an opportunity as possible to pursue that curiosity."

"All mathematicians to different degrees like to interest others in these same things, from students, who may have a limited knowledge and background, to colleagues, who have Ph.D.s," he says. "Although I like concentrating selfishly on research questions, I get a kick out of inspiring students to know that math can be fun and interesting and not just something you have to suffer through."

"The same kind of curiosity that makes me want to do math is naturally contagious," says Johnson. With so many students on board, he must be right.

Planning for Commencement begins early

Thoughts of exams, Christmas vacation and holiday jobs are uppermost in the minds of most faculty and students as the first half of the year winds down. But some people are already planning for the final event of the year — Commencement, May 15.

Like no other event in the College calendar, commencement touches the largest number of people. For students it is the joyful finale of four years in school. For parents it is a moment of pride to see sons and daughters achieve an important milestone in their lives. For faculty it is a point of pride also to see students once under their tutelage go on to graduate school or positions in business. For the planning committee it is a complex operation that takes months to prepare for, even if it does happen every year.

Samuel Sadler, dean of student affairs, is charged with the planning of commencement, not just the ceremony itself, but the entire weekend. The students and their parents, says Sadler are the focal point of the entire event and planning evolves around that concept. Representatives from the senior class and Student Bar Association are members of the planning committee and offer suggestions along the way.

All the events should culminate with the commencement ceremony and provide for the students and their parents a sharing experience they will long remember, says Sadler.

Since the date is set in sync with the academic schedule the timing of the commencement is the one thing that doesn't have to be weighed by the committee. But what color should the cover of the commencement program be? Last year's forest green is given an encore yes vote. The decision will go to the publications office tomorrow so stock can be ordered.

"Is there any help available to fold in the final list of awards after the programs are printed?" the seniors ask.

Is there a way of coaxing student musicians who are not graduating to stay after exams to provide instrumental music for the procession into the hall for commencement? A competition and a prize are suggested. How about an attractive pay scale for the day suggests a committee member.

Last year there were so many demands on the food service that resources of manpower, utensils and food could not be stretched to accommodate them all. This year all requests will have to come through the planning committee.

Do the senior representatives like the style of the invitations, the type face, the paper, the wording? An order must be given to the bookstore soon to ensure that these will be ready in time for students to send them out to family and friends.

Does anyone have a good suggestion for a band that will play for the luncheon on the lawn Saturday? A military unit had been a hit a couple of years ago but they have to be requested a year ahead. Maybe they will come back next year if asked now.

William and Mary came within a whisker of not having a commencement last year, Sadler tells the committee, but is quick to add a calming explanation. The public address system went out and, but for an auxiliary unit that was purchased for another occasion, speakers would have needed megaphones to reach the audience. A backup unit will be in place this year — just in case.

The buildings and grounds department will get the order to set up the platform and arrange the greenery. Was there enough room for handicapped and wheelchair visitors? Space at the front of the seating has been set aside and will accommodate up to a dozen wheelchairs. How about the press? Can they be accommodated in the front row, behind the handicapped section?

How is the student speaker at commencement to be selected? Nominations will be sought and individual auditions set up. Members of the

planning committee are asked to help with the judging process.

Faculty are encouraged to attend commencement and process in academic regalia. As an incentive this year, the university offered a subsidy to faculty to help them purchase regalia.

Commencement festivities begin with the installation of new members of Phi Beta Kappa. Since Phi Beta Kappa was founded by students at the College in 1776, initiation is traditionally an important date on the calendar.

Does the senior class want to continue the tradition of an outdoor dance in the Sunken Garden on campus? asked Sadler at the planning meeting recently. There was no doubt about that one, no need for discussion. The Sunken Garden provides an ideal setting for an outdoor dance floor under canvas.

The Baccalaureate service in William and Mary Hall on Saturday morning will be followed by the ROTC commissioning in Phi Beta Kappa Memorial Hall. At noon the class of 1938 will hold its 50th reunion class luncheon.

A picnic lunch for all graduates and their families near Crim Dell will wind up the morning's activities.

President and Mrs. Paul R. Verkuil will host graduates and their families at a reception in the Wren Yard Saturday afternoon, and the William and Mary Choir will give two concerts in the Wren Chapel.

One of the most popular events of the weekend is the Senior Class Candlelight Ceremony in front of the Wren Building. Students select favorite faculty, administrators and fellow students to speak, and class officers say their farewells. While seniors are gathering for their ceremony the honorary degree recipients are being hosted at a black-tie dinner by the Board of Visitors.

The year that William F. Buckley Jr. was an honorary degree recipient he caused a scheduling snafu when he left the dinner before the dessert came because he had been invited to the Candlelight Ceremony and he wanted very much to attend. The timing of the dinner has now been changed so honorees can attend the Candlelight Ceremony if they wish. Honorees are also often among the guests at the senior class reception following the Candlelight ceremony.

Sunday is the day of commencement. William and Mary's large hall will seat over 13,000 and is usually packed. Each senior is allowed a certain number of tickets. A desk will be set up to handle requests and check names from the

computer printout to see everyone gets a fair share.

When the College population was smaller, commencement was held outside in the Wren Yard. There was no need for tickets, although earlybirds sought out the shady spots on a hot day. Speakers competed with the traffic on both sides of the Yard, and the heat was often a problem. Despite the shortcoming of the venue and the growing student population, it was with great reluctance that many saw the ceremonies moved to William and Mary Hall. In the Wren Yard ceremonies each candidate was individually hooded, this too changed with the move to the hall. There was too many graduates; the ceremony could not be kept in the 2- to 2-1/2-hour timeframe. Today only Ph.D. candidates are individually hooded.

For the planning committee, the move made life a lot easier. No longer was it necessary to have a rain plan. No longer was it necessary to set up in Blow gymnasium and nervously monitor uncertain skies Sunday morning.

Many Williamsburg churches take note of commencement in services on Sunday morning. Other activities on Sunday morning include the 50th reunion class memorial service in the Wren Chapel and a brunch for law graduates.

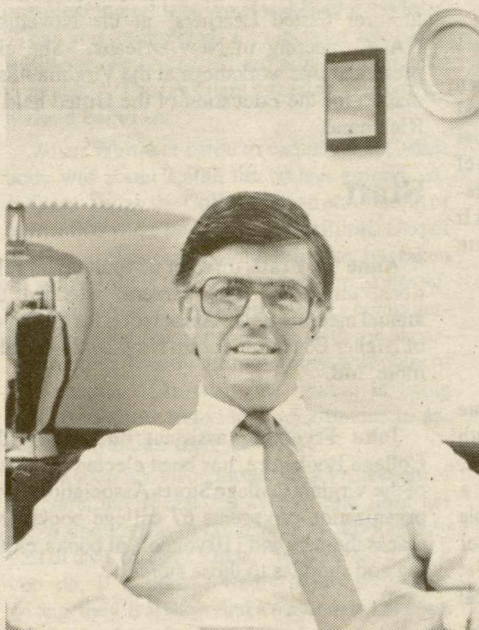
Seniors gather at the Wren Building for the walk across campus to William and Mary Hall.

One of the first topics on the agenda for the planning committee is how to get students across campus and into the hall on time. Because students sit in blocks according to their degree discipline, faculty marshals plot the route to get the students separated appropriately.

All students are checked when they enter the hall to see that champagne bottles are left at the door to be collected after the ceremonies. This takes time and some ingenuity on the part of marshals to extract contraband from crafty hiding places. The baccalaureate hood was a favorite hiding spot last year.

Although students "receive" their degrees from the president of the university in William and Mary Hall, the actual diploma will be given to them at department receptions around campus.

With the department receptions, the College closes what is one of the most distinctive approaches to commencement weekends in the country. It is certainly one of the busiest. Over 300 people are involved in seeing everything comes off as scheduled.



W. Samuel Sadler

On location in Richmond

One day in the life of a movie extra

By Emily Davies
 Editorial Assistant, University Relations

Virginia, Richmond in particular, is a favorite locale for moviemakers. The most recent use of capital city locations was for Gore Vidal's "Lincoln," which will be presented as a TV mini-series starring Mary Tyler Moore and Sam Waterston. The cast will also include a history graduate student from Northern Virginia who has had some interesting experiences being a part of several movies, including "Lincoln"

Sunday morning, 10 a.m.: The original starting time was supposed to be 6:30 this morning. Thank goodness that was changed. Of course, they said to be here NO LATER THAN, etc., and now that I'm here no one knows exactly what is going on; this is not unusual for movie extras, though, and since the weather is beautiful and many of my friends are here, too, I can be patient.

I heard about the filming from other history buffs I know in the same hobby. We do what is known as "living history;" we portray civilian and military life in the 19th century, especially during the Civil War. We usually work without payment and provide our own costumes and equipment. Getting paid as extras in a movie is an unexpected bonus.

We are perhaps better known as sponsors of battle reenactments held most weekends from April until October all over the country. The years from 1986 through 1990 represent the 125th anniversary of The War. (Notice capital letters and lack of adjective; those of us who know, don't need one.) Approximately eight to 10,000 reenactors will participate in the largest re-created battle since The War itself, next summer near Gettysburg, Pa.

10:30 a.m.: The casting company, who takes care of payroll, has finally made an appearance, and all the extras, dressed for daytime 1865, line up to fill out the paperwork. We are here to provide background for a street scene in a made-for-TV movie based on Gore Vidal's *Lincoln*.

They are filming in Richmond; I can't figure out if it's because Richmond has so many nice Victorian streets, or because it's cheaper for the film company to stay here. Probably a combination of both. There is some irony in filming a story about Lincoln here, in the former capital of the Confederacy.

11:30 a.m.: I have proved that I am an American citizen, completed all the paperwork and am now ready to have my hair and makeup done. The wait is a little long because there are quite a few extras, but I don't mind. Having the services of a hairdresser and makeup artist is a treat we extras don't always get. This is my fourth movie as a lowly extra, the third historical one, and the first for television. Last summer, I was in Richmond (in fact, on the same street in Shockoe Slip) to help with a movie for the Park Service, about Richmond during the Civil War years. It was fairly low-budget, so all but the main characters did their own hair and makeup.

The second movie I was involved with was "Broadcast News," filmed last spring in Washington. It starred William Hurt. No makeup was done on that one either, but my acting assignment didn't put me center-stage either; I was part of an audience in an auditorium while William Hurt gave a speech. All I had to do was laugh on cue with everyone else.

12 noon: Now the real waiting begins. They actually did a good job on my makeup. (It amazes me how much it takes to look natural.) The hairdressers seem to know the correct hairstyles for this historical period. Hairstyles in historical movies are often a give-away to when the movie was made; hairdressers often follow what is in style at the time rather than what is historically correct. In glamorizing the stars, movies often forfeit historical accuracy. By 20th-century tastes, Civil War hairstyles are at the very least unflattering, if not downright ugly. Compare the hairstyles of Melanie in "Gone With the Wind" to Scarlett's; Melanie's is more correct, but Scarlett's is more flattering.

The same is true with wardrobe. Sometimes the extras will actually be clothed and styled more accurately than the principals: "North and South" is a good example. The stars are dressed in the most flattering costumes, not always the

most authentic. (The less reverent call this the "heaving bosom" approach to history; anyone who saw "North and South" probably knows what I mean.) I would venture to guess that with all the skin showing on the made-for-TV movie "Napoleon and Josephine," it was probably created with the same priorities in mind. (Unfortunately, or fortunately, depending on your point of view, this is what sells automobiles and light beer as well as movies.)

Dressed and coiffed, now I really look like what I came here to portray: a 19th-century southern peasant. I balance out the numerous Ladies and Gentlemen (notice capital letters) who are appearing today. Peasants in this world never get enough billing.

This past summer, working on "Alamo: The Price of Freedom," I portrayed a Mexican woman running from Mexican troops as they stormed the town near the Alamo. I can now claim to have been a peasant in two languages. "Alamo," filmed in IMAX, the same type of film used for the movie "To Fly" at the Air and Space Museum in Washington, D.C., will be shown in San Antonio at the Alamo.

12:30 p.m.: Still waiting, although I have been "placed." I am standing with a friend, in fact the only other woman dressed in even vaguely peasant garb, and we are supposed to be gossiping on the street before we see the Lincolns drive by. This will certainly be realistic, because we are gossiping anyway; what two friends talk about when they meet on the street probably hasn't changed much in the last 125 years.

Finally we see the principal actors. Sam ("The Killing Fields") Waterston is playing Lincoln. His voice is probably right (Lincoln's voice was very high) but he seems a little young to me; by the end of the war Lincoln looked pretty haggard. I hope the makeup people can age Waterston appropriately.

Mary Tyler Moore is playing Mary Todd Lincoln in what seems to me a crime of miscasting; not that I doubt Miss Moore's acting ability, by any means, but Mary Todd Lincoln was only 4 feet 8 inches tall and dumpy to go with it. Mary Tyler Moore is a long way from either of those characteristics.

1 p.m.: They have started the filming. President and Mrs. Lincoln are in a carriage, and those of us on the street are supposed to catch sight of Lincoln in the carriage and react and wave enthusiastically, which we do; several times. My friend and I have a bet to see which one of us can get Sam Waterston to wave back; we both lose. It's amazing what extras do for entertainment.

The production crew only films two or three takes per scene on this movie, which is unusual. In the Park Service movie, I evacuated Richmond at least 10 times, if not more, before they were satisfied. And I listened to William Hurt repeat the same few lines all day last spring.

3 p.m.: They have finished the first scene and are in the middle of filming a close-up scene of the Lincolns in the carriage. The crew in charge of extras is now screaming at us to be quiet; although the scene is being filmed a good 30 yards from where we are standing, we are not allowed to talk even in a whisper. Such injustice! We are forced to be everlastingly silent, yet bus horns honk, brakes squeal and traffic moves loudly all around us. Ah, the joy of movie life. More joy: there are a few grumbings among the extras about a break for lunch, but the cast manager just laughs, tells us to be patient and says something about the "Abraham Lincoln diet."

3:30 p.m.: Filming now starts on the last scene of the day. The carriage pulls up to the entrance to the theater and the Lincolns step out, to be greeted enthusiastically by the theater crowd. This lets me out, because I am not dressed for the theatre. I stand and watch the scene being filmed; the Lincolns descend from the carriage and walk into the theater; John Wilkes Booth skulks in the foreground as the scene closes.

5:15 p.m.: Most of the extras are done for the

day. They now proceed to feed us, one of the few perks given to extras.

The Park Service gave us a per diem to buy our own food. This was a real bonus because we were paid much more than we would normally spend. In Texas, we were filming in Brackettville (where John Wayne filmed his movie about the Alamo), which is 100 miles west of San Antonio and 30 miles from anywhere, so we almost had to eat the food provided for us; unfortunately, the one meal a day they prepared for us was not only inedible, but insufficient.

This food is actually pretty good, although I'm not sure what I'm eating because it's now pitch dark outside, and we are eating in an unlit parking lot. I, however, am not picky about minor details like that when a free meal presents itself; poor students can't be choosers.



Emily Davies

6 p.m.: Most of us are ready to go home. Actually, this was a very easy day compared to some; in Washington, I sat for close to 12 hours in an auditorium seat. In Texas, most of the filming was done at night, starting around 5 or 6 p.m. and continuing till almost dawn, and then we had to try to sleep during the day, in 100-degree weather.

Filming during the heat of the day was almost unbearable and even at night was uncomfortable. The men were in wool uniforms and the women were dressed from head to toe in heavy peasant clothing. For one scene, the peasants were splashed liberally with mud because we were supposed to be poor and dirty. The mudding stopped when the wardrobe department decided that we were *too* dirty. Try finding a laundromat in the middle of the Texas desert!

I'm not exactly sure why I do all this. Not for the glamour (see mud-splashed scene above). Not for the fame, because no one can recognize me unless they know exactly where I appear. Certainly not for the money: I usually earn \$50 per day, which can sometimes work out to less than \$4 an hour for a long day of filming. Neither can this work can be categorized as a steady source of income. But it does give me a chance to frequently see friends who enjoy living history as a hobby, and it gave me my first glimpse of Texas.

Maybe I'm part ham; certainly I'm somewhat masochistic to put up with the abuse that is often meted out to extras. Would I do it again? Baked in the desert heat, frozen in the cold, mud-splashed, poorly fed, yelled at by production crews, underpaid. Would I do it again? In a heartbeat.

Publication Schedule

The William and Mary News will publish the last issue of this semester on Dec. 16. Normal publication will resume Jan. 20.

Deadline for all materials for the Jan. 20 issue will be 5 p.m., Friday, Jan. 15.



HACE helps Green and Gold

Joyce Emerson (right), treasurer of the Hourly and Classified Employees Association, hands a check for \$516 to Renee Snyder, co-chairman of the Green and Gold Christmas program. Through their fund-raising efforts, HACE became the largest contributor to the Green and Gold program. Contributions through HACE represented donations from faculty, staff and administrators.

Modern medicine being used to study coelacanths

Continued from page 1.

Approximately 80 specimens of coelacanths are known to exist. Less than a dozen are located in the United States with specimens held by the American Museum of Natural History and a few other major museums and university ichthyology collections.

Work on the specimens at VIMS will begin early in January.

The objectives of the research may be classified into five categories: gross morphology, physiology and biochemistry genetics, parasitology, and xenobiotics or man-produced pollutants.

Co-principal investigator Dr. E. O. Wiley of the University of Kansas will head the gross morphology work. Dr. R. W. Griffith of Southeastern Massachusetts University will direct studies on several aspects of the animal's physiology. A group of scientists led by Dr. R. W. Chapman of Johns Hopkins University will examine the animal's mitochondrial DNA and nuclear encoded allozymes using standard techniques. A fish pathology team led by Dr. William J. Hargis Jr. of VIMS will head the team of fish pathologists who will make examinations for parasites.

Xenobiotic studies will be conducted by a team headed by Dr. Robert H. Huggett of VIMS.

Dr. William J. Phoel of the National Marine Fisheries Service and a member of the Explorer's Club will serve as the liaison between the Club and the research team. Phoel, an ichthyologist, will also serve as a member of the dissection team.

Since the first coelacanth was caught in 1939, scientists' efforts to capture and keep a specimen alive have created a major quest. In the 1940s a reward of one hundred pounds was offered by Professor J. L. B. Smith of Rhodes University in South Africa for a captured specimen.

In an article in *Oceans* magazine, Margaret M. Smith chronicles the work of her husband to study the ugly, armored living relic — the coelacanth.

One reason for the intense interest in the coelacanth is its co-relationship to man's early ancestor, a fish known as Eusthenopteron. The coelacanth still has, apparently unchanged in its body since the Devonian period, unbelievably primitive characteristics, many of which must have been almost identical with those of Eusthenopteron.



Dr. John A. Musick is pictured with the larger of two coelacanths awarded to the Virginia Institute for Marine Research.

The second reason for the great interest is that Eusthenopteron is believed to have left the water for the land, the biggest step ever taken in the history of evolution. The adaptations are almost insuperable and included:

Breathing: disappearance of gills, development of the gas bladder into lungs and the mechanism to pump air into and out of the lung.

Excretion: with no gills to excrete urea and ammonia, the kidney is adapted for elimination of all the nitrogenous wastes and for more effi-

cient retention of water.

Prevention of desiccation of, among other things, the skin, eyes and (for reproduction) the eggs.

Hearing: loss of lateral line organs sensitive to water vibrations and development of the terrestrial ear for air vibrations.

Support and locomotion of a body no longer buoyed by water; made possible by development of suitable limbs, their support and muscles.

Coelacanths, explains Mrs. Smith, are giving us a glimpse into that remote past over 300 million years ago when vertebrate life was just emerging from the water.

Even when the coelacanth fossil record indicated that the line reached extinction 70 to 90 million years ago, coelacanths had lived longer than any other vertebrate. With the discovery of the living coelacanth they have extended their time by 70 to 90 million years. Man has existed for a mere one million.

Notes

Women's Club emeriti coffee tomorrow

The College Women's Club will hold an emeriti coffee at the President's House, 10-11:30 a.m., Thursday, Dec. 10. Anyone needing transportation should call Nancy Grehl, 229-8039.

Colonial Williamsburg's executive chef, Hans Schadler will provide a cooking demonstration Tuesday, Jan. 26. A limited number of spaces are available. Registration fee is \$20. Please send a check, payable to the College Women's Club, to Cass Prater, 16 Spring West, Williamsburg 23185. Additional information is available by calling Ms. Prater at 565-3370 or Kathleen Ring, 220-1677.

HACE plans caroling

HACE, Hourly and Classified Employees Association, will sponsor community Christmas caroling, Sunday, Dec. 20. Carolers will meet at the Marshall-Wythe Law Library at 3

p.m. and return there by 6 p.m. for light refreshments.

If you are willing to car pool, call Lina Kilmer at ext. 4245.

HACE invites members of the College community and the general public to join their in caroling.

Open house

Colonial National Historical Park will sponsor a holiday open house at the historic Nelson House on Main Street, Yorktown, Dec. 10-Jan. 3 from 11 a.m. to 4 p.m. daily, except Christmas Day.

The Georgian mansion will be decorated for Christmas, and guides will give visitors a tour and some of the history of the house. Musical programs will be featured on weekends from 2 to 4 p.m.

Holiday hoops

William and Mary hosts Christopher Newport College in a holiday basketball game at 1 p.m., Saturday, Dec. 19.

Santa Claus will be court-side to see the action and representatives of the Salvation Army will be on hand to collect canned goods and new clothing for the needy. Admission is only \$1 for

adults. High school students and children will be admitted free if they bring a donation of food or clothing.

Wayne Burrow, associate director of development for the William and Mary athletic department, suggests, "Start off the holiday season right. Make it a point to be at William and Mary Hall and get a reduced-price admission by simply making a much-needed donation of canned food or new clothing to the Salvation Army. See you on the 19th."

SCATS directories

The 1987-88 SCATS telephone directories have arrived and can be picked up at the Campus Post Office. Since many SCATS prefixes have changed recently, you are encouraged to pick up the new directories at your earliest convenience. Please take only the number of directories needed for your department.

Blow gym and pool schedules announced

The following schedule has been set for recreational sports at Blow from now through Jan. 11.

Through Dec. 11: gym, 4-9 p.m.; pool, 11-1 a.m. & 4-6 p.m.

Dec. 12, 13: gym, 10 a.m.-9 p.m.

Dec. 14-18: gym, 4-9 p.m.

Through Dec. 18, the pool will be open from 11 a.m. to 1 p.m. and 4-6 p.m.

Dec. 19, 20: CLOSED

Dec. 21-23: gym, 9 a.m. - 4 p.m.

Dec. 24-27: CLOSED

Dec. 28-Dec. 30: gym, 11 a.m. - 4 p.m.

Dec. 31-Jan 3: CLOSED

Jan. 4 - 11: gym, 9 a.m. - 5 p.m.

(CLOSED weekend of Jan. 9-10)

Pool hours to be announced.

Classified Advertisements

FOR SALE

Two vouchers good for plane travel anywhere in continental U. S. served by Eastern or Continental airlines. \$89.95 each. Must be used by Dec. 17. For details, call 229-5042. (12/9)

Electrolux vacuum cleaner, newly reconditioned with new parts and overall service. Rug beater and shampoo attachment. Call 253-0033. (1/20)

Yellow, 4-door, 1979 Chevette. Original owner. Very good running condition and interior; good tires and battery. Dependable. \$450, negotiable. Graduating senior, must sell now. Call Kathleen at 220-8265. (12/16)

Selectric II IBM typewriter. Good condition, needs cleaning. \$150. Graduating senior, must sell now. Call Kathleen, 220-8265. (12/16)

Two new MIYATA 10-speeds: one 23" red men's 10-speed and one 19.5" blue ladies 10-speed, either \$150. Also, PEUGEOT PGN-10 racing bicycle, 60-cm. frame, used, \$225. Call Craig at 220-2289 or Nelson at 253-8123. (12/16)

White electric range. Needs new oven heating element. \$50 or best offer. Call 229-6341 or 253-4517. (12/16)

Custom Cruiser. 37' boat with twin diesel engines, well-equipped flying bridge. Some hull work needed. Will sacrifice to first reasonable offer. Call Cole, ext. 3389, or 898-7414. (12/16)

House in KINGSWOOD — Great for families with children, 2-1/2 miles from campus, quiet living, close to shopping, 2 BRs and full bath upstairs; master bedroom, study and a half bath downstairs; kitchen,

family room with fireplace, LR, DR, 15'-x-18' screened porch, double garage, large fenced-in yard, storm windows. \$146,000. Call 220-3670. (12/16)

1984 Nissan pickup truck, 5-speed, blue. 65,000 miles. Excellent condition, \$3,200. Call 565-2942. (12/9)

Brown and rust-tone couch with matching chair, \$200. Gold-tone and wooden recliner, \$75. All three pieces, \$200. All in good condition. Call Annette, ext. 4302. (12/9)

Beta VCR with tapes, \$125 or best offer. Canon Typestar 4 typewriter with two cartridges, \$75. Both in excellent condition. Call Catherine at ext. 4897. (12/9)

Electric bass guitar, Ibanez RB690. Gloss black, active pickups and hardshell case. Excellent condition. \$595. 253-5697. (12/9)

1970 Volvo — dependable transportation, driven daily, \$650. Call 642-5577 weekends and evenings. (12/9)

Wood stove, used two winters, will keep you warm this winter! Cabinet-type, sells locally for \$499. A steal at \$150. Call Gail, 566-0805 evenings, or ext. 4240. (12/9)

FOR RENT

Three-BR, 1-1/2-bath house with carport, on cul-de-sac. Near James-York Plaza. \$500 per month. Call 229-1954 or 220-1176. (12/16)

Two persons needed to share 4-BR house for sec-

ond semester. Just off Richmond Rd., conveniently located between campus and Monticello Shopping Center. Full kitchen, washer-dryer. Just \$140 per month. Call John or Aaron, 253-8109. (12/16)

Grad student seeking two roommates to share beautiful, old 4-BR, 2-bath home, three-minute walk to W&M. Must be neat, responsible, nonsmoker. No pets. \$150 per month plus 1/4 utilities. Call 220-2831. (12/16)

Desperately seeking housemate for new 2-BR townhouse four minutes from campus to share utilities and rent (\$262.50 per month). Very convenient. Furnished with full-size bed, washer/dryer, dishwasher, full kitchen, cable TV. The works! Great place! Call Charles, 229-9385. (12/16)

BAVON BEACH. 2-BR furnished cottage on Bay in Mathews County, central AC and heat (1 hour from Williamsburg). No pets. \$350 per month. Lease includes use of beach. Call 229-4461. (12/9)

WANTED

Family house for visiting Australian professor, wife and two children, July-Dec. 1988. Call Alan Ward, 253-4322. (12/16)

Person to load some trash onto a truck (on property line) for Campus post office employee. Pay negotiable. Call Esterine, 229-6928; or Help Unlimited, ext. 4129. (12/16)

Person to help full-time College employee with housecleaning, half-day per week. Light tasks such as ironing, vacuuming, dusting. Own transportation needed. \$40 per month. Can begin next semester.

Call Becky, ext. 4331.

Faculty member willing to pay \$1,500-2,000 for a reliable, sturdy, used American car to be driven by teenage daughter. Call ext. 4996 or 253-0553. (12/16)

Overnight babysitter needed — 2 p.m. Dec. 31 through 2 p.m., Jan. 1 for two children, ages 15 months and 5 years. No transportation necessary. \$2 per hour, plus meals. Call Kathy, ext. 4481 or 565-3098. (12/16)

Single-family building lot in Kingsmill or the Coves. Call 229-0153 or 220-1882. (12/16)

Student needed to be with children while single parent works night shift in exchange for free rent and utilities. Private half bath, use of kitchen and laundry facilities. Children, ages 9 and 12, are self-sufficient; no "babysitting duties." Call Connie, 220-2475, after 6 p.m. (12/9)

INSTRUCTION

Guitar lessons: W&M faculty guitarist accepting private students, all styles. Discounts on handmade classic guitars, strings and accessories. Call Tim Olbrych, 229-2618. (12/16)

SERVICES

Adolescent group therapy, Wednesdays, 5-6 p.m. Family guidance available. Call 220-1882. (12/16)

More than typing. Let me prepare your papers with computer and laser printing for only \$1 per page. Call Georgia at 220-3134, or leave a message. (12/9)

Employment

Informational interviews will be held in the Office of Personnel Services each Thursday from 9 a.m. to noon on a first-come, first-served basis. This is an excellent chance to learn more about employment opportunities at the College and VIMS.

The Office of Personnel Services will be closed Dec. 24-Jan. 3 for the Christmas holidays.

The following positions at the College are open to all qualified individuals. Call 229-JOBS for further information, or visit the Office of Personnel Services in Thiemes on Richmond Road for information and application forms, Monday-Friday, 8 a.m.-4 p.m. An EEO/AA employer.

Deadline for the following positions is Dec. 11 unless otherwise indicated.

SECRETARY SENIOR (Grade 5) — Entry salary \$13,412. No. 324. Location: Modern Languages.

EXECUTIVE SECRETARY (Grade 6) — Entry salary \$14,655. No. 459. Location: Facilities Planning and Construction.

PROGRAM SUPPORT TECHNICIAN (unclassified) — \$7.05 per hour, part time, approximately 20 hours per week. This is a temporary appointment with funding that expires March 30, 1988. Location: Personnel Services.

MOTOR VEHICLE OPERATOR A (unclassified) — \$4.93 per hour, part time, approximately 15 hours per week (morning hours). No. V010. Location: VIMS (Administration).

MARINE SCIENTIST B—Chesapeake Bay Instructor (unclassified) — Salary range \$12.03 to \$16.43 per hour, part time, approximately 35 hours per week for 20 weeks, Jan. 4-June 15, 1988. Location: VIMS (Advisory Services).

OFFICE SERVICES ASSISTANT (unclassified) — \$5.90 per hour, part time, approximately 30-35 hours per week. This is a temporary appointment with funding that is subject to renewal June 30, 1988. No. A73. Location: Personnel Services.

PURCHASING AND STORES SUPERVISOR A (Grade 6) — Entry salary \$14,655. No. 031. Location: VIMS (Purchasing and Stores).

OFFICE SERVICES ASSISTANT (unclassified) — \$5.90 per hour, part time, approximately 35 hours per week. No. A75. Location: Swem Library (Documents).

LABORATORY TECHNICIAN A (Grade 3) — Entry salary \$11,216. This is a restricted position with funding that is subject to renewal Dec. 31, 1988. No. 052. Location: VIMS (Biological and Fisheries Science).

CUSTODIAL WORKER (unclassified) — \$4.51 per hour, part time, approximately 35 hours per week. Work hours are 5 a.m.-12:30 p.m. No. A76. Location: Buildings and Grounds.

MARINE SCIENTIST B (Grade 12) — Entry salary \$25,027. This is a restricted position with funding that is subject to renewal June 30, 1988. No. 219. Location: VIMS (Physical Oceanography). Deadline Dec. 15.

Notes

Swem schedule

Swem Library hours during the holidays are as follows:

The library will be open from 8 a.m. to 5 p.m., Dec. 17, 18, 21, 22 and 23.

The library will be CLOSED Dec. 19 and 20. Christmas Closing

The library will be CLOSED Dec. 24 through Jan. 3.

Jan. 4 through Jan. 13

Monday through Friday, 8 a.m. to 5 p.m.

Saturday and Sunday, CLOSED.

The library will resume regular hours Jan. 14.

Library to identify patrons by SS nos

For the automated circulation system, the libraries of the College need to identify each borrower with a numerical code, preferably the borrower's social security number.

With your permission, the College can provide a tape of social security numbers which can be loaded into the database where they will be protected from unauthorized use.

In compliance with Virginia Code, Section 2.1-1985, we request permission to use your social security number within our database. If this is not acceptable to you, please notify the William and Mary Libraries in writing by Jan. 15, 1988. Address correspondence to: Linda Adams, Circulation Coordinator, Swem Library,

If we do not hear from you by Jan. 15, we will assume that we have your permission.

Berna Heyman
Assistant University Librarian for Automation
Swem Library

Savings bonds

To improve the cost effectiveness of the U.S. Savings Bonds program, the Department of the Treasury has decided that, effective Feb. 1, the \$50 and \$75 denominations will no longer be offered to new participants in the payroll savings plan.

For new participants, the minimum denomination will be \$100 with a purchase price of \$50. It is important to note, however, that those already receiving the \$50 and \$75 denominations through payroll savings may continue to do so. Further, these denominations will continue to be available for over-the-counter purchases at financial institutions.

Should you have any questions or comments with respect to this policy, please contact Elizabeth W. Jones at ext. 4147.

Calendar

Thursday, Dec. 10

Emeriti Coffee sponsored by the College Women's Club, the President's House, 10-11:30 a.m.

*Town and Gown Luncheon: Frank Lendrim, professor of music/choir director, CC ballroom, noon

Retirement reception for Floyd E. Whitaker, university comptroller, Dodge room, PBK, 3-5 p.m.

Friday, Dec. 11

Physics Colloquium: "The Rocky Road to High-Temperature Superconductivity" by Donald U. Gubser, Naval Research Laboratory, Small 109, 4 p.m. (Coffee, Small conference room, 3:30 p.m.)

Concert: Williamsburg Women's Chorus, Bruton Parish Church, 8 p.m.

Saturday, Dec. 12

Reading Period (Through Dec. 13)

Wren Chapel organ recital, 11 a.m.

Yule Log Ceremony, Wren Great Hall, 6 p.m.

Concert: Williamsburg Women's Chorus, Bruton Parish Church, 8 p.m.

Sunday, Dec. 13

Grand Illumination, Colonial Williamsburg, 5:30 p.m.

Monday, Dec. 14

Ph.D. Oral Examination: "Renormalization Group Theory Technique and Subgrid Scale Closure for Fluid and Plasma Turbulance" by Ye Zhou, physics department, Small conference room, 1 p.m.

Exams (Through Dec. 17)

Tuesday, Dec. 15

*Concert: Vivaldi's "Gloria" by the Williamsburg Choral Guild, Wmsbg. Baptist Church, 8:15 p.m.

Wednesday, Dec. 16

*Concert: Vivaldi's "Gloria" by the Williamsburg Choral Guild, Wmsbg. Baptist Church, 8:15 p.m.

Saturday, Dec. 19

Wren Chapel organ recital, 11 a.m.

*Men's basketball v. Christopher Newport College, W&M Hall, 1 p.m.

Monday, Dec. 21

Wren Chapel organ recital, 11 a.m.

Tuesday, Dec. 22

Wren Chapel organ recital, 11 a.m.

Wednesday, Dec. 23

Wren Chapel organ recital, 11 a.m.

Thursday, Dec. 24

Administrative Christmas Vacation (Tentative; Through Jan. 4)

Wren Chapel organ recital, 11 a.m.

Friday, Dec. 25

Christmas

Saturday, Dec. 26

Wren Chapel organ recital, 11 a.m.

Friday, Jan. 1

New Year's Day



Members of Mortar Board and Omicron Delta Kappa help bring in the Yule Log for the traditional ceremony Saturday. Pictured left to right, clockwise, Mark Argentine, treasurer, Mortar Board; Mary Riley, secretary, Mortar Board; Amy Hartman, Michelle Deliginnis, CDK president; Geoff Goodale, Mortar Board vice president; Elizabeth Wilborn; Craig Crawford, Mortar Board president; and Lisa Entress.

W&M tradition continues with yule log ceremony

The College will welcome in the holiday season at the traditional Yule Log ceremony at 6 p.m., Saturday, Dec. 12 in the courtyard of the Wren Building. Arrangements for the ceremony have been made by members of Omicron Delta Kappa and Mortar Board.

As in past year, the festivities will begin with a round of carols led by the William and Mary Choir. President Verkuil and W. Samuel Sadler, dean of student affairs, will give holiday readings.

Participants will be given sprigs of holly and invited to touch their sprig to the log for good luck as it is carried through the courtyard by students. After the log is lit in the fireplace of the Great Hall people toss their sprigs into the fire, reviving a superstition that cares of the past year go up in flames with the holly.

Those who attend the Yule Log ceremony this year are asked to bring a donation of non-perishable food for the needy.

To add to the festivities of the day, the senior class will host a reception in the Presidents' Gallery on the second floor of the Wren Building before the Yule Log ceremony to honor those who will complete their undergraduate degrees in December.

The ceremony of the Yule Log is believed to have originated with German tribes in northern Europe as part of their winter festival. In medie-

val times, a log, which was sometimes the whole trunk of a tree, was selected on Candlemas Day (The Feast of Purification, Feb. 2) and carefully stored to dry out during the summer. On Christmas Eve it was taken into the house and kindled with the unburnt parts of the last year's log, which had been saved for that purpose.

The Scots and English later adopted the custom, adding it to their Christmas celebration, and the tradition arrived in America with the first colonists.

According to legend, it was considered good luck for the log to burn throughout the 12 days of Christmas. Folktales related that servants would soak the log in water so it would burn slowly and last longer. Since it was the custom of some households to declare a holiday for servants while the Yule Log burned, every effort was made to assure its longevity.

Holiday Greens

To preclude indiscriminate cutting of ornamental campus greenery during the holiday seasons, the buildings and grounds staff will once again make cuttings available, free of charge.

Greens will be distributed next to the Campus Police building, Thursday and Friday, Dec. 10-11, 10 a.m.-2 p.m. Please bring your own containers.

Saturday, Jan. 2

Wren Chapel organ recital, 11 a.m.

Saturday, Jan. 9

Wren Chapel organ recital, 11 a.m.

*Men's basketball v. American University, W&M Hall, 7:30 p.m.

Monday, Jan. 11

*Men's basketball v. VMI, W&M Hall, 7:30 p.m.

Thursday, Jan. 14

Classes begin

*Town and Gown, CC ballroom, noon

Friday, Jan. 15

Lecture: "Martin Luther King, Jr.," CC Ballroom, noon

Black Culture Series, CC Ballroom, 7 p.m.

Saturday, Jan. 16

Wren Chapel organ recital, 11 a.m.

*Men's basketball v. James Madison University, W&M Hall, 7:30 p.m.

Wednesday, Jan. 20

*Concert Series: Misha and Cipa Dichter, pianists, PBK, 8:15 p.m. Individual tickets (if seating available), \$5

Thursday, Jan. 21

*Town and Gown, CC ballroom, noon

* indicates an admission charge.

Exhibits

MUSCARELLE MUSEUM: "Renaissance Ceramics from the Kassebaum Collection" (Through Nov. 22)

"Art and the Law" (Nov. 21 through Jan. 17)

"20th-Century Graphic Art from the Museum Collection" (Nov. 27 through Jan. 24)

ZOLLINGER MUSEUM: "Early Virginia Private Libraries, 1700-1830" (Through Dec. 11)

ANDREWS GALLERY: "Sculpture and Drawings" by Jonathan Shahn (Through Dec. 11)

ANDREWS FOYER GALLERY: "Works by Frank Hobbs, Joseph Kossov and Susan Yanero" (Through Dec. 11)

ANDREWS HALL GALLERY: "Broad Street: Old and Historic District" (Through Dec. 11)

Hanukkah celebration

The Jewish Feast of Lights will be observed with a service and celebration at Temple Beth El, Hillel House, on Jamestown Road across from Phi Beta Kappa Memorial Hall, at 7:30 p.m., Friday, Dec. 18.

The William and Mary News is issued weekly during the school year for faculty, staff and students of the College and distributed on campus Wednesday afternoons.

News items and advertisements should be delivered to the News Office, James Blair 310A, no later than 5 p.m. the Friday before publication. Notices for the calendar should be delivered to the News Office no later than 5 p.m. the Wednesday before publication.

Barbara Ball, editor
Publications Office, production
News deadline: Fridays, 5 p.m.