

# William and Mary News



Volume II, Number 11  
November 13, 1973

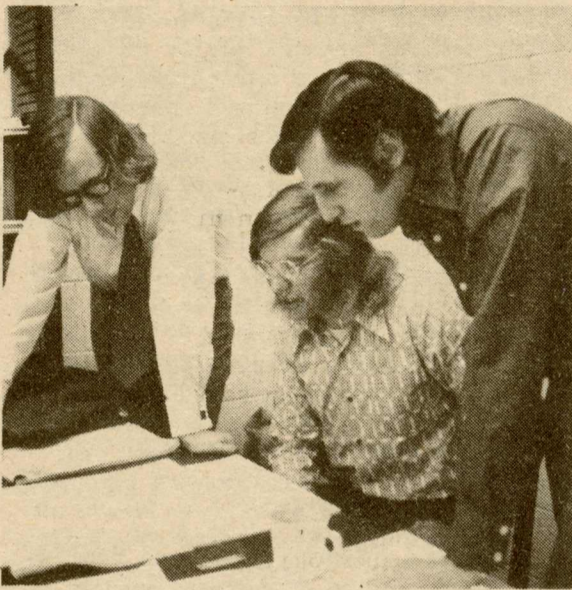
## Math Department Awarded ONR Research Grant

The Department of Mathematics is the recipient of a \$34,942 research grant for the purpose of pursuing fundamental research in computer science from the Office of Naval Research in Arlington.

Three assistant professors in the Department are working on the project. Norman E. Gibbs is principal investigator, and William G. Poole and Paul K. Stockmeyer are faculty associates of the project. They are being aided by two graduate research assistants: Les Crane, Newport News, of the Applied Science Program, and John Augustowski, Baltimore, Md., of the Mathematics Department. The official proposal title for the grant is "The Bandwidth of Graphs Applied to Sparse Matrix Problems."

Applied mathematics and computer science encompass the broad area of the grant, according to Mr. Gibbs. "Technically, we are dealing with sparse matrices and how to store them in the computer and manipulate them. We are applying an area of pure mathematics called graph theory to problems in an area of applied mathematics called numerical analysis," he explained.

The Office of Naval Research sponsors research in scientific fields of major concern to the Navy. In the field of mathematics and numerical analysis, a program of research is pursued to provide new foundations and tools for naval engineering.



P. Stockmeyer (l), L. Crane and N. Gibbs

"We are working closely with the Navy on this project," said Mr. Gibbs. "We have a copy of the computer program that the Navy uses and some test matrices. We are now running our computer program on the Navy's data in order to determine the efficiency of our procedure. Preliminary results show that ours is considerably faster and we are optimistic that we can deliver to the ONR and to the scientific community as well, a computer program superior to the one that is in common use today," he reported.

## Campus Drive to be Closed

Campus Drive on the grounds of the College of William and Mary will be closed to vehicular through traffic beginning on Monday, November 19, 1973, for an indefinite period. Closure of the roadway, which runs from Richmond Road adjacent to Cary Stadium through Crim Dell to a junction with Jamestown Road adjacent to Barrett Hall, is necessary due to safety considerations related to construction of the new Chemistry Building.

The closure was requested by Cochran Construction Company, Hampton, Virginia, which will shortly begin operation of necessary excavation and related construction heavy equipment along the southern section of Campus Drive. The new Chemistry Building will be constructed on the athletic field adjacent to the old tennis courts and across Campus Drive from Chandler Hall.

The recommendation for closure of Campus Drive to vehicular through traffic was made by the College's Transportation Control Board, representing all campus constituencies, on a unanimous vote at its regular monthly meeting on November 6, 1973. The Board's recommendation was made to the College's Vice President for Business Affairs William J. Carter and President Thomas A. Graves, Jr. Both concurred in the Board's concern for personal safety as indicated in the contractor's request for closure of Campus Drive.

A semi-permanent barrier will be installed adjacent to the cement traffic island where Campus Drive meets

Botetourt Drive on the south side of Crim Dell. Signs reading "No Through Traffic" will be posted at both the Jamestown Road and Richmond Road entrances to Campus Drive.

Parking spaces on the northeast side of Campus Drive paralleling the dormitory complex from Chandler Hall to Barrett Hall will remain in use for the time being. It is hoped that parking spaces along that side of Campus Drive can continue in use through the period of the construction project.

Parking spaces along the southwest side of Campus Drive, adjacent to the athletic field will have to be eliminated to provide passageway for the construction equipment. To compensate for lost parking spaces for the residents of the dormitories in that area adjustments will be made to change the present Faculty and Staff parking spaces on the eastern end of Botetourt Drive to Unrestricted parking and to permit parallel parking along the eastern side of Crim Dell. Every effort will be made to provide dormitory residents with nearby replacement parking spaces in the same number as those lost through elimination of the Campus Drive spaces adjacent to the athletic field.

Appropriate officials in the local Virginia Department of Highways office, in the Williamsburg city government, and in the Colonial Williamsburg have been notified.

## 'The Christmas Comet'

"The Christmas Comet: What it is and How to See it" will be the subject of an illustrated lecture by Carl-Edwin Carlson of the Physics Department, Thursday, November 15, in Room 109 of Small Physical Laboratory at 8 p.m.

Comet Kohoutek, named for the Czech astronomer Lubos Kohoutek who first detected it last March, promises to be the "celestial extravaganza of the century," according to a recent article in *Newsweek* magazine. The comet, travelling through the solar system at 70,000 miles per hour, should be visible to the naked eye by the end of November in the early morning just before sunrise and by Christmastime should prove to be the "most dazzling object in the heavens, save for the sun by day and the moon by night," says *Newsweek*.

During January it will be so brilliant that its tail will stretch across one-sixth of the evening skies. Beginning around February the comet will not be visible to the naked eye. "We expect to be able to follow it with our department telescope until the end of March," said Mr. Carlson. He and several colleagues in the Physics Department observed the comet for the first time a week ago.

"Comet Kohoutek will be one of the most spectacular comets of our lifetime," said Mr. Carlson, "and is not expected to return to our solar system again." It will be moving very rapidly through the sky. At the beginning of December, it will pass through the constellation Virgo, and at Christmastime will be in the constellation Scorpio near the star Antares which marks the heart of the scorpion. During the two month period of its visibility to the naked eye, it is expected to pass through the constellations Capricorn, Aquarius, and Pisces, he said.

## Catalog Wins Award

The typography of the 1973-74 Undergraduate Catalog is the subject of a third-place award among 300 entries in the 1974 trade competition sponsored by the Printing Industries of America, Inc. The entry was submitted by Bru-El Graphics, Inc. of Springfield, the firm which handled the typesetting and composition, working from specifications developed by the College in association with George Crawford, Jr. of Williamsburg, design consultant. Donald L. Ball of the English Department is editor of the Undergraduate Catalog.

## Campus Exhibits

Gutzon Collection, 1-5 p.m.,  
Wednesday-Sunday, Andrews Hall,  
ending November 19

The Southern and Midwestern Books  
Competition Exhibit, 1972 selections,  
in the Museum, Earl Gregg Swem Library,  
today through Tuesday, November 27,  
from 8 a.m.-5 p.m., Monday-Friday and  
from 9 a.m.-1 p.m. Saturday. The books  
are judged from the standpoint of  
typography and design.



## Anthropology

Louis J. Noisin, assistant professor, gave a lecture on "Poetry and Literature of French-Speaking Black Africa" at the semi-annual meeting of the Virginia Chapter of the American Association of Teachers of French at Virginia Commonwealth University on Friday, November 2.

## Biology

C. Richard Terman, professor, has had the following paper published: "Recovery of Reproductive Function by Prairie Deermice (*Peromyscus maniculatus bairdii*) from Asymptotic Populations." *Animal Behaviour* 1973, vol. 21: 443-449.

## Education

James D. Cowles, associate professor, directed a day-long workshop on communicating with young children for the staff and volunteers at the Williamsburg Area Day Care Center, Friday, November 9.

Mr. Cowles was assisted by Mrs. Peter Derks, a graduate student in the School of Education.

## Geology

Stephen C. Clement, associate professor, published a paper with Paul H. Ribbe of VPI&SU entitled "New Locality, Formula and Proposed Formula for Reyerite," in the July, 1973 edition of *The American Mineralogist*.

The occurrence in the Rawlings Quarry, Brunswick Co., is the third reported locality in the world of this rare hydrated calcium silicate mineral.

Bruce K. Goodwin, professor, and Mr. Clement visited the VEPCO atomic reactor sites of the North Anna Power Station at the request of the Atomic Energy Commission to assist in the interpretation of the geologic structures and history of the area, on October 19.

Kenneth F. Bick, professor, and Gerald H. Johnson, associate professor, attended the 14th Annual Atlantic Coastal Plain Geological Association Field Conference on "Geologic Evolution of Cape Henlopen Area in Post-Glacial Time (last 10,000 years)," in Lewes, Del., October 19-21.

The conference included a detailed study of changes in the Cape Henlopen area as the result of a rising sea level and man's activities; migration of beach and dunes over lagoons and marshes; and repeated attempts at "controlling" nature--most of which were miserable failures.

## Law School

Thomas H. Jolls, professor, recently participated in a national institute on "The Revolution in Securities Regulation," sponsored by the American Bar Association in Washington, D.C.

John E. Donaldson, professor, has been the featured lecturer this fall at three workshops on Fiduciary Income Tax Returns, sponsored by the American Institute of Certified Public Accountants. The workshops were held in Detroit, Tulsa and Columbus, Ohio in September, October and November respectively. Mr. Donaldson has also spoken on "The Net Gift in Estate Planning" at a meeting of the Peninsula Estate Planning Council in Hampton.

Richard A. Williamson, associate dean, addressed the Hampton Roads chapter of the National Association of

Social Workers, in September, on "Equalization of Municipal Services: Constitutional Alternatives." He also addressed the Norfolk-Portsmouth Bar Association on "General-Legal Education," and in October spoke to the Williamsburg-James City County Medical Association on "Constitutional and Legal Dimensions of Vice President Agnew's Case."

The current constitutional crisis in Washington has kept several Law School faculty busy with interviews and speaking engagements. Mr. Williamson was one of the speakers at an "impeachment rally" sponsored by William and Mary students October 22, and was the subject of interviews on WTVR Richmond and WVEC Newport News-Hampton, as well as appearing as a panelist on WGH. William F. Swindler, professor, spoke to the Williamsburg Kiwanis Club, and is scheduled to speak to the Williamsburg Rotary Club, on the general constitutional issues. He also addressed the student body of Virginia Wesleyan College in Norfolk, November 2.

## Mathematics

William L. Bynum, associate professor, will talk on "Nonexpansive Mappings and Normal Structure in Banach Spaces" at the Mathematics and Computer Science Colloquium on Friday, November 16 at 3 p.m. in Jones Hall, Room 301.

## Modern Languages

Members of the Department attending the Convention of the Modern Language Association of Virginia held in Richmond November 2 included: Alex Kallos and Pierre Oustinoff, professors; Luke Martel, associate professor; E. Morgan Kelley, Jr., Gary Smith, J. Allen Tyler, assistant professors; and Joanne Basso, Robert Welch, and James Tyler, instructors.

Mr. Kelley chaired a discussion group on the topic "Suggested Approaches in Teaching Literature in High School and College."

Joanne Basso was recently elected president of the Virginia Chapter of the American Association of Teachers of Italian. She also is on the Board of directors of the Modern Language Association of Virginia.

At the AATI meeting plans were discussed for introducing the study of Italian into the secondary schools of Virginia. Miss Basso will represent both the Department and the AATI on the committee for the proposed revision of regulations pertaining to the certification of foreign language teachers in Virginia.

## Physics

The following papers have been published:

"On the Reactions of N<sub>2</sub> with O." J. B. Delos. *J. Chem. Phys.* 59, 2365 (1973).

"Measurements of the  $\Sigma^-$  Magnetic Moments." J. D. Fox, W. C. Lam, P. D. Barnes, R. A. Eisenstein, J. Miller, R. B. Sutton, D. A. Jenkins, M. Eckhause, J. R. Kane, B. L. Roberts, R. E. Welsh, and A. R. Kunselman. *Phys. Rev. Letters* 31, 1084 (1973).

Paul Benioff of Argonne National Laboratory will present a colloquium for the Physics Department, November 16, on new interpretations of quantum mechanics. The talk will be at 4:30 p.m. in Small, Room 109. Coffee

will be served at 4 p.m. in the conference room.

Several members of the Physics Department attended the annual meeting of the Division of Plasma Physics of the American Physical Society held in Philadelphia, October 31-November 3. The following papers were presented:

"Solar Cosmic Ray Acceleration by the Beam-Plasma Instability." S. Peter Gary. *Bull. Am. Phys. Soc.* 18, 1266 (1973).

"Another Look at Plasma Conductivity." Michael J. Schmidt and S. Peter Gary. *Bull. Am. Phys. Soc.* 18, 1262 (1973).

"Fast Electrons from the Beam-Plasma Instability." Alford A. Allen and S. Peter Gary. *Bull. Am. Phys. Soc.* 18, 1306 (1973).

"Ion Acceleration in a Plasma Focus." F. Hohl and S. Peter Gary. *Bull. Am. Phys. Soc.* 18, 1365 (1973).

"Effect of the Weak Electron Beam Plasma Instability on Ionospheric Photoelectron Distributions." H. W. Bloomberg. *Bull. Am. Phys. Soc.* 18, 1368 (1973).

"Stability Test for Strongly Inhomogeneous Plasmas through Nyquist Diagrams." H. W. Bloomberg. *Bull. Am. Phys. Soc.* 18, 1329 (1973).

"Exact Inhomogeneous One-Dimensional Plasma Equilibria." F. R. Crownfield, Jr. *Bull. Am. Phys. Soc.* 18, 1302 (1973).

"Transmission Line Simulation of Ion Acoustic Waves in a Density Gradient." Walter F. Schoellmann, Thomas M. Sutton and Frederic R. Crownfield, Jr. *Bull. Am. Phys. Soc.* 18, 1287 (1973).

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# William and Mary News

Volume II, Number 11

November 15, 1973

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Mailed to addresses of employees as on record at the Payroll Office, James Blair Hall, to which office address changes should be directed.



# STAFF NOTES

## Swem Library

Ruth E. Devlin of Williamsburg recently joined the Swem Library staff as an accounting assistant in the Acquisitions Department. She is a 1973 graduate of Germanna Community College in Fredericksburg, where she received a certificate in clerical arts.

Wendy W. White recently assumed duties as a clerk-typist B in the Cataloging Department. She attended Sacramento (Calif.) State University and was employed for several years as a staff member in the Sacramento County Public Library.

Robert C. Stevick, assistant reference librarian, attended a workshop on the use of Educational Resources Information Center microform materials in Norfolk on November 7. The workshop was sponsored by the ERIC Clearinghouse on Science, Mathematics, and Environmental Education. Librarians representing several public and academic libraries in Virginia attended this workshop.

## Whitney Appointment

Scott Whitney, professor of environmental law, has recently been appointed to the United States Coastal Zone Management Committee.

Under the sponsorship of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, the Committee's primary concern is to preserve the ecological balance of the coastal zone by implementing the Coastal Zone Management Act of 1972.

The Committee is composed of 15 members from representative areas around the country who meet twice a year in various locations in the coastal zone. The next meeting is scheduled for November 15 in Washington, D.C.

Mr. Whitney, who joined the law school faculty in 1972, has long been concerned with environmental problems. He is a member of the Board of Directors of the International Wildlife Conservation Society; and a member of the Washington, D.C. Safari Club, which organized and maintains an African game management school; the Shikar-Safari Club; and the Game Conservation Organization International. His interest in conservation came about while he was big game hunting in Africa in the 1950's. According to Mr. Whitney, big game hunters make effective conservationists because they are acquainted with the practical problems of conservation and because hunting serves to harvest surplus game and to maintain correct ecological balances.

While a member of the William and Mary Summer School of Law in England this past summer, Mr. Whitney was the subject of a lengthy interview in the *Daily Express and Echo* in Exeter, and of a television network program in Plymouth on the subject of environmental law and legislation. He also addressed a local group of business and legal representatives on the subject of environmental law in Exeter.

## President's Calendar

Dr. Graves will be guest speaker at the Kiwanis Club luncheon tomorrow at the Williamsburg Lodge.

# CAMPUS PROFILE / Pat Gentry

Self-sufficiency is an attribute Pat Gentry has never had to learn - it just seems to come naturally.

Pat, administrative secretary to the director of the Marshall-Wythe Institute for Research in the Social Sciences, has a wide variety of interests and skills ranging from horticulture and ecology to auto-mechanics and karate. "I was brought up learning the value of being able to provide for oneself," she said.

It follows, therefore, that Pat is a supporter of the women's movement; not because she is one to take up fashionable causes, but due, instead, to her belief that as women become more self-reliant, they will acquire the opportunities and positions they were once denied.

Ms. Gentry joined the College staff in 1966 as secretary to Warner Moss, then director of the Marshall-Wythe Institute. In July, 1972 she became secretary to Clyde A. Haulman who was awarded the directorship of the Institute.

The Marshall-Wythe Institute develops and coordinates research among the social sciences, and between social scientists and the faculty of other disciplines. Services provided by the Institute include the Virginia Election Data Bank containing state, city, county and precinct data on Virginia elections dating from 1892. It also provides census data tapes and other government data sources not available in Swem Library. One aspect of Pat's job is to collect election returns from precincts around the state and to visit court houses in selective cities and counties in order to verify the returns.

The Institute also conducts the Marshall-Wythe Symposium and arranges lectures on topics relating to the social sciences. In addition to her secretarial duties, Pat assists Mr. Haulman with the coordination of Title VIII seminars on such topics as "Land Use Planning" and the "Virginia Wetlands."

## Research at VARC

VARC research investigators presented two papers at the fall meeting of the American Physical Society, Division of Nuclear Physics, which was held November 1-3, at Indiana University in Bloomington, Indiana.

The papers, which represent progress in research activities at the Research Campus of the College, are as follows:

"Intermediate Energy  $\alpha$ -particles for Skin Cancer Therapy," by H. Aceto, R. Jolly, D. Buckle and Giulio J. D'Angio, M.D. (College of William and Mary, VARC, and Memorial Sloan-Kettering Cancer Center, New York City.)

"Trace Analysis in Health and Disease by Proton Induced X-ray Fluorescence and Scattering," by Mr. Jolly, Mr. Buckle, Mr. Aceto, G. Randers-Pehrson, M. Haddad, M.D. and F. Davis, M.D. (College of William and Mary, VARC, Mary Immaculate Hospital, Newport News, and Riverside Hospital, Newport News.)

## SA Ombudsmen Chosen

SA president Chris Owens recently announced the appointment of Jon Elsasser and Patti Kaericher as SA ombudsmen.

"Both bring a great deal of experience and much enthusiasm to the job. They were the top choices of myself and the student services committee and won the overwhelming support of the Senate," Miss Owens stated.



In keeping with Institute concerns, Pat is ecologically sensitive. "Most people are entirely too wasteful," she noted. "For example, automatic garbage disposal systems reflect such a waste, unless, of course, one lives in an apartment. We would never think of tossing food scraps, egg shells or coffee grounds in the trash; such scraps are cultivated into our garden and flower beds."

Pat has an avid interest in plants - a massive philodendron plant stands near a corner window in her office and her home is filled with plants and is surrounded by flowers and bushes she has planted.

With the soaring cost of ready-made clothes, Pat has recently begun taking sewing lessons; eventually she plans to make all of her clothes as well as a number of garments for her husband, Carl.

Although she has never taken formal instruction, Ms. Gentry knows how to defend herself with karate and can repair her own automobile (a skill her father taught her at the age of fifteen); she can change a tire, put in new points and plugs, and change the oil.

Because of the demands of her home and office schedules, Pat has an interesting and unusual slant to the art of relaxation. She tries to spend approximately 20 minutes a day sitting quietly, practicing transcendental meditation - another one of her many interests.

## PERSONNEL BULLETIN

The following positions at the College are or will be vacant. Qualified employees who wish to be transferred to these positions may receive additional information at the College Personnel Office. The College of William and Mary is an Equal Opportunity Employer. Accordingly, women and minority employees are encouraged to apply for those positions for which they feel they are qualified.

Clerk-Typist A

Clerk D (2 yrs. of college required)

Computer Operator - 2 openings

Patti, a junior economics major from Vienna, and Jon, a senior economics major from Canton, Ohio, "will serve the important function of finding answers to questions raised by students, faculty, staff, and administrators. Their whole purpose is to solve problems - no matter whose problems."



# 4 President's Parents' Day Address

*Following is the text of President Graves' Parents' Day address delivered Saturday, November 10, in William and Mary Hall.*

Let me welcome all of you who are parents, on behalf of the College, to Parents' Day, 1973. I want to share with you for a few minutes this morning some of my views about the College of William and Mary, as an institution to which you have entrusted your sons and daughters, our students.

First of all, this is an institution which emphasizes quality and excellence in all that we do and in all that we expect from each other, in our commitment to a broad and deep undergraduate educational experience. We focus on the individual student and the quality of his or her learning--but totally, in every dimension of his or her life. Hopefully, this experience is a liberating one for all of our students, in the great tradition of liberal education. Emphasis is on excellence in teaching and learning, and your sons and daughters, as undergraduates, are taught by experienced and skilled teachers. William and Mary is, as you know, primarily a teaching institution.

Secondly, as I said, William and Mary is an institution that relates academic and student affairs into a total, integrated educational experience, emphasizing the development of the whole student, as individual and citizen outside of as well as in the classroom. You will hear more about this concept later in this program.

Thirdly, we intend for William and Mary to be at the forward cutting edge of the best institutions in higher education--in testing, in innovating, in experimenting, where appropriate. Let me just mention the example of Project Plus in which certain upperclassmen/women, working with faculty in a close student-teacher relationship, are merging the in-class, out-of-class experience--in seminars, in tutorials, and in new ways of teaching and learning. In this live-learn situation we are not only providing the participants with an exciting opportunity, but we are applying the experience we are gaining across the campus and across the curriculum in the years ahead.

In addition, we have under way a calendar review whose object is to search for an increase in academic options and to allow us to be more responsive to the legitimate educational needs and aspirations of our students. We hope the review will lead to an opportunity for more flexibility in teaching and learning, which may have major significance for curriculum and educational policy.

Last year we instituted a modified grading system that put emphasis where we believe it should be--on evaluation of individual performance, progress and achievement, rather than on hurdles, failures or grades. We know the concept to be a good one, but we are still studying this approach to be sure it is meeting well our objectives.

Striving to be at the forefront of higher education is risky. It is possible to fall into the traps of lowering standards or responding to current fads. Let me assure you that the decisions we make are carefully thought through by experienced and skilled faculty members, whose only objective is to provide your sons and daughters with the highest quality educational experience.

William and Mary is an institution that believes students should share responsibility for decisions that affect their lives. This belief is based on the assumption if we treat students as mature and responsible individuals, they will act accordingly. Our experience is that this assumption works well. But like all privileges, this approach requires constant vigilance on the part of those who are concerned.

We have student self-determination at William and Mary, in matters of curfew and visitation, but with careful and responsible guidelines. These guidelines are that the privacy of individual students must be protected, that the College has a responsibility for the security and safety of all of its citizens, and that any policy or actions within self-determination must enhance or improve the educational environment. Self-determination is under continuing review, to insure its effective implementation.

We encourage freedom, not license. We say that with freedom goes responsibility, and our students are acting responsibly. Finally, all of us at the College understand that the Administration has final responsibility to the Board of Visitors for student affairs.

William and Mary is a state institution, and takes pride in this fact. We are proud to be a part of this state's great system of higher education. We are also a national institution, by tradition, by history, by the contributions of our alumni, and by the very nature of our character and personality at William and Mary. Seventy percent of our students come from Virginia, which is as it should be; but almost fifty percent of our alumni live outside of Virginia. I am certain that the taxpayers of Virginia want William and Mary to be equal to her heritage in all ages, and I want the Virginians among you to know that your elected representatives are giving thoughtful and generous support to this College.

William and Mary is also an institution that cares about its alumni. Your sons and daughters will be part of the College the rest of their lives. The roles of our alumni and the quality of their lives mean everything to us, for in the end this College may only be judged by the contributions our alumni make as educated citizens in their professions and communities.

We also believe that there is a relationship between the quality of education and the quality of living. We are now in the process at the College of raising standards of living and working on this campus. We believe this is important and essential to your sons and daughters as students here at William and Mary.

I view William and Mary also as an institution that tries to be as efficient, productive and as careful as possible with its scarce resources, in providing your sons and daughters with a quality educational experience. Your taxes, your tuition, are our resources, and we owe it to you to manage these resources well.

At the same time we are in the process of seeking new, outside resources to do a better educational job for you. Striving toward excellence will require new sources of support from a broad base, and we shall be seeking your support in the future--and shall offer in return the best education we can provide.

In this regard I should like to express to the Parents Association the gratitude of the entire College community for the gift of forty-five thousand dollars from over 600 parents last year. This money, the result of last year's Parents Fund Drive, represents tangible evidence of your Association's willingness to share a portion of the dream we all have for William and Mary. Needless to say you have our very best wishes for an even greater success this year.

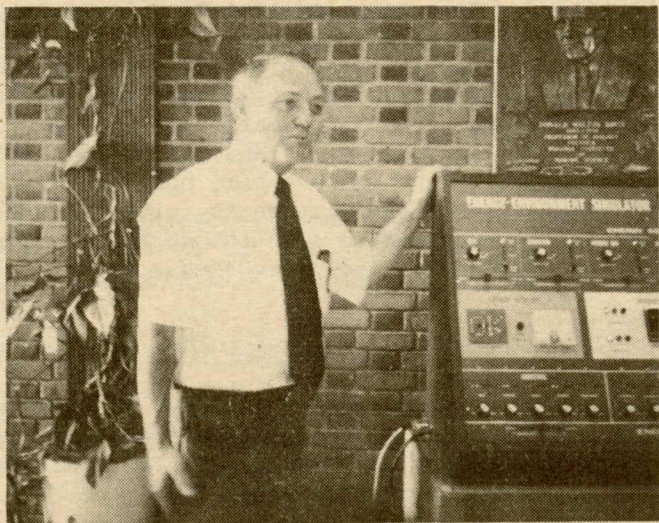
It is undoubtedly obvious to you that I am proud of this College, of the faculty and students who are the core of its quality. It is an institution of special quality, with a special mission. As such, I hope that it is an institution with integrity, that also is responsive to changing educational needs in a changing environment.

Finally, William and Mary is people, many different people in different groups--people who belong here, who are involved in the College, who care about it, and about whom the College cares. The parents, as individuals, and as members of the Association of Parents, are included among these people. We want you to feel part of this ancient institution with a modern mission to which you have entrusted your sons and daughters. We want your ideas, your suggestions, your help. This is why we have the Association of Parents and why we have Parents' Day.

Mrs. Graves and I are delighted you are here. We hope you and your sons and daughters will have a good visit. We hope also that you will come to our open house at the President's House after the football game, so that we may meet you and know you personally.



# Energy Problems Simulated in ORAU Game



Larry K. Akers

Larry K. Akers, chairman of the special training division of the Oak Ridge Associated Universities (ORAU) stopped on campus last week to demonstrate an Energy-Environment Simulator, used in citizens' workshops conducted by ORAU for the U.S. Atomic Energy Commission.

## Development continued

### AAUW 1974 Fellowships for Women Program

Fellowships to women who have filled all requirements for the doctorate except the dissertation. Stipends range from \$2,500 to \$5,000 for one-year period. For further information and application forms write: Fellowships Office, American Association of University Women, 2401 Virginia Ave., N.W., Washington, D.C. 20037

Deadline: January 2, 1974

### Fund for the Improvement of Postsecondary Education

This year's program includes three parts, an open competition and two targeted subprograms.

- (1) The open competition has a deadline of December 15 for the mandatory submission of preliminary proposals of five pages or less. Support may be requested for innovative practices and activities in postsecondary education. Applicants whose preliminary proposals are selected for final competition have a deadline of March 15, 1974 for the submission of final applications.
- (2) Applications for awards in the two subprograms are due January 15, 1974, with no preliminary proposals required. Grants will be awarded in the areas of (a) Competency-based Learning and (b) Improving Conditions for Excellence in Teaching.

Guidelines will be in Mrs. Neiman's office, Ext. 519.

### Organization of American States

Fellowships for study and research within member states of the OAS. Awards cover travel, tuition, fees and maintenance. Write: Secretariat for Technical Cooperation, Office of Fellowships and Training, OAS, Washington, D.C. 20006

Deadline: December 31, 1973

### Air Force Office of Scientific Research

Requests unsolicited proposals from organizations capable of performing fundamental scientific research investigations. Fields: Chemical Sciences, Mathematical and Information Sciences, Electronic and Solid State Sciences, Life Sciences, General Physics and Geophysics.

### Program in Law, Science and Medicine

Yale Law School announces a new interdisciplinary teaching and research program in law, science, and medicine. Stipends for fellows will range from \$6,000 to \$10,000 depending on age, experience, and degree candidacy. Details can be obtained from Director, Program in Law, Science, and Medicine, Yale Law School, New Haven, Conn., 06520

Deadline: March 1, 1974

To point up the many-faceted problems posed by the energy crisis, the simulator is used as a time machine that calls for energy-use decisions from players and displays the consequences of decisions as players are hurtled through time at a rate of one century per minute.

As the time clock ticks away the years, the principal energy sources are gradually consumed at a rate determined by the players. The object of the game is to discover ways of maintaining an environmentally safe and adequately powered "world" without exhausting the depletable energy sources unnecessarily.

Some of the better players, explained Mr. Akers to his audience, have succeeded in not using all of their fossil fuels for 1,000 years. But unlike the real world, "if things go badly in the simulated world you can always start over again with a fresh supply of fuel by simply pressing the start button."

In the real world, he asserted, players must know three basic rules: "they can't win, they can't break even and they can't get out of the game."

Mr. Akers was introduced by S. Y. Tyree, Jr., professor of chemistry, who was recently elected chairman of the Council of Oak Ridge Associated Universities for a three-year term. ORAU is a non-profit corporation of southern colleges and universities and includes the College of William and Mary.

## E. Q. (Energy Quotient) Test

Try your E.Q. (energy quotient) on the test below, contained in the ORAU handbook for citizens on energy and the environment. See page 11 for answers.

1. How much of the energy used in gas stoves supplies the pilot lights?  
a. 10%    b. 25%    c. 50%
2. How much of the energy stored in coal burned in a power plant can be delivered to the customer's home as electricity?  
a. 1/3    b. 2/3    c. all of it
3. What fuel is presently our most extensively used energy source?  
a. coal    b. petroleum    c. natural gas
4. What fraction of radiation to which Americans are exposed comes from nuclear power plants and nuclear fuel reprocessing plants?  
a. 0.001%    b. 0.1%    c. 10%
5. How much of the energy stored in crude petroleum is lost in the series of processes between the oil well and a moving car?  
a. 20%    b. 60%    c. 90%
6. What fraction of the world's energy consumption occurs in the U.S.?  
a. over 10%    b. over 20%    c. over 30%
7. How long would a 100 watt light bulb burn on the energy needed to manufacture one throw-away soft-drink can or bottle?  
a. 10 minutes    b. 5 hours    c. 20 hours
8. Where would you be exposed to more ionizing radiation?  
a. on a coast-to-coast jet flight for five hours  
b. at a nuclear power plant site boundary for five hours  
c. in your living room watching color TV for five hours
9. Which of the following fuel resources is in the greatest danger of exhaustion?  
a. coal    b. petroleum    c. natural gas
10. In the year 2000, American total energy demand will be:  
a. the same as today  
b. twice as much as today  
c. three times as much as today



# Memoranda Official

From: Personnel Office Date: 11/9/73

Subject: Affirmative Action to Improve Procedures Related to Classified Personnel

The Director of Personnel at the College has taken affirmative action to implement all of the recommendations included in the committee "Report on Clerical Personnel" and on those recommendations related to classified personnel contained in the report from the Ad Hoc Committee on the Status of Women.

Listed below are the recommendations in the order submitted in the two reports, and the action taken to implement them.

## RECLASSIFICATIONS

The committee recommends that the Personnel Officer at the College of William and Mary immediately begin the process of reviewing and re-evaluating existing positions on campus and, where he deems appropriate, submit requests for the reclassification of positions to the State Personnel Director.

Deans of Schools and Department Heads have been requested to review present job descriptions and classifications within their jurisdiction, and wherever applicable, to submit a revised job description to the College Personnel Office for review. The job classification will be increased or decreased if a significant change in the duties and responsibilities of the incumbent has taken place since the position was last evaluated or reallocated. This review process is scheduled for completion March 31, 1974, and annually thereafter.

## NEW CLASSIFICATION

It is recommended that the Personnel Office of the College of William and Mary request a new classification for Departmental Secretary, with a salary, at least, comparable to that of a Clerk-Stenographer C.

The Director of Personnel at the College has made several attempts to establish a separate classification for departmental secretaries in academic departments as a group, since on October 27, 1972, the Division of Personnel audit ruled out this possibility. However, each position will have to be considered for reallocation based on its individual merits. The Dean of each school has been furnished a copy of each departmental secretary's job description with a request for reevaluation and possible reallocation if warranted. In those cases where reallocation appears warranted, a revised job description will be prepared and forwarded to the Division of Personnel in Richmond to document our recommended action.

## JOB DESCRIPTIONS

It is recommended that a committee of staff members be selected to begin the task of writing new descriptions for the specific classes of positions on campus.

Any classified employee or supervisor of a classified employee position may at any time rewrite the job description for the classified position. Subsequent to review by the appropriate Dean or Department Head, it is forwarded to the College Director of Personnel for review. If reallocation is indicated, appropriate action will be taken to implement the revised job description.

## TRANSFERS

It is recommended that employees be encouraged, not required, to notify their supervisors in writing prior to the time they apply for another position on campus.

Employees are no longer required to notify their supervisors before applying for another position on campus. Job openings are announced in the *William and Mary News*, and additional information on these positions is furnished without obligation at the Personnel Office.

## SERVICE RATINGS

The committee recommends that upon completion of the service rating form, a supervisor be required to discuss the rating with the employee and obtain the employee's signature on the form prior to returning it to the Personnel Office. It is also recommended that the employee be afforded the opportunity to comment on or dispute, in writing, any rating of fair or below.

Employees have always been entitled to review their completed service ratings on file in the Personnel Office. Supervisors have been encouraged to discuss service ratings with each employee at the time of rating, and point out any outstanding strengths or weaknesses. This information was published in the *William and Mary News* on April 3 and 10, 1973. Effective with the 1973 service rating in November, however, supervisors are required to discuss the service rating with the employee, and each employee is required to sign the service rating to indicate that the rating has been discussed.

## RETIREMENT

The committee recommends that an effort be made to include total State Retirement paid to date on the payroll stubs along with the totals paid for state tax, federal tax, etc.

Effective with the pay period August 1-15, 1973, information is now furnished semi-monthly with the employee's payroll check stub, showing the recorded balance of the employee's contribution to VSRS, toward his or her retirement.

## LEAVE NOTIFICATION

It is recommended that the Personnel Office notify each employee twice a year of the amount of annual, compensatory and sick leave that has been accumulated to date.

The Personnel Office has provided written notification to each classified employee and supervisor of the sick and annual (including compensatory) leave balances that each employee had as of June 30, 1973. This will be repeated as of December 31, 1973, and will continue on a semi-annual basis.

## STAFF ASSOCIATION

It is recommended that a staff association be formed for the purpose of keeping staff members informed as to policy and administrative changes within the College.

The Report on Clerical Personnel proposed the organization of a staff association for the purpose of keeping staff members informed as to policy and administrative changes. It is the policy of the College to publish all changes in policies and procedures affecting members of the College community (faculty, staff, and students) in the *William and Mary News*. Employees are free to form any type of organization they wish, but the College, as an agency of the Commonwealth of Virginia, is not in a position to organize such an activity.

## EMPLOYEES' HANDBOOK

The committee recommends that an employees' handbook be prepared by the Personnel Director with assistance from a committee of staff members.

This publication has been circulated among staff members for review and it is planned that each College employee will have a personal copy prior to January 1, 1974.

## FLOATER TEAM

It is recommended that the College establish a "floater team" of three or four clerical personnel to be trained in the general procedures of all major offices on campus.

Budgetary limitations at this time preclude the establishment of a floater team. When additional clerical/administrative help is needed in emergency situations, student help is recruited, or non-students may be employed by the College on an hourly basis until such time as the emergency situation is alleviated.

## PROCEDURES MANUAL

It is recommended that a committee of staff members be appointed to begin preparation of a College Procedures Manual to be distributed to all secretaries concerned.

This manual is being prepared by the Business Office, and distribution of each chapter is being made as completed. The chapter on travel has been distributed. Additional chapters on purchasing of office supplies, personnel and other procedures will be published within the coming year.

## MATERNITY LEAVE

The committee recommends that the College make a clear statement regarding maternity leave for women faculty (and classified personnel) treating it as any other temporary disability.

This type of absence is provided for in the rules of the Virginia Personnel Act for classified employees and it is explained in detail in the forthcoming Employees' Handbook.

## STATEMENT OF RIGHTS AND RESPONSIBILITIES

The committee recommends that the classified staff be addressed by the Statement of Rights and Responsibilities, or by a parallel written statement regarding their status in the College community.

The *Rules of the Virginia Personnel Act* is the document that outlines the rights and responsibilities of all classified personnel in the employ of the Commonwealth. It is considered a parallel statement.

## ON-THE-JOB TRAINING

The committee recommends that active on-the-job training programs be developed to upgrade the skills of women and minority employees.

Based on the advice of the Commonwealth of Virginia Equal Employment Opportunity Coordinator, and a survey conducted by the Director of Personnel at the College of William and Mary, it is felt that the College does not have the facilities, personnel, or finances to have a formal on-the-job training program. Local Federal and State sponsored and financed programs are available to all College employees who wish to improve themselves for better paying positions, and information on these programs may be obtained at the College Personnel Office.

## GRIEVANCE BOARD

The committee recommends that an effective, impartial, internal grievance board be established.

Rule 14 of the Virginia Personnel Act adequately provides employees with an excellent grievance procedure, and a grievance board at the College level may be convened whenever requested by the employee if the employee feels that the grievance has not been resolved. Copies of Rule 14 are available at the College Personnel Office, and this will be explained in the Employees' Handbook.

## HIRING AND PROMOTION POLICIES

The committee recommends that a study be made of internal hiring and promotion policies affecting the classified staff.

The hiring and promotion statistics of the College are monitored by the College Equal Employment Opportunity and the Affirmative Action Offices. In addition the Director of Personnel (Equal Employment Opportunity Coordinator) of the Commonwealth of Virginia is furnished quarterly progress reports.

During the period January 1, 1969 to November 1, 1973, 122 (1 out of 5) classified positions have been reallocated to a higher classification.

## STUDENT HEALTH SERVICES

The committee recommends that the staff expansion of Student Health Services include more than one additional full-time doctor.

In accordance with the recommendations contained in the Dalrymple Report, Student Health Services has had two full-time doctors since August 1, 1973.

Recommendations for classified personnel to serve on College committees, authorization for classified personnel to attend courses at the College at reduced tuition rates, and a day care center for children of College employees are being studied. The final results of these studies will be published in a forthcoming issue of the *William and Mary News*.

I. H. Robitsek  
Director of Personnel

# Official Telephone Directory Changes

From: Dennis K. Cogle Date: 10/26/73

To: All faculty and staff

Subject: Corrections in phone books

The following is a list of changes and corrections which have been reported and which should be made in your *Official Telephone Directory* for faculty and staff.

PAGE	CORRECTIONS
Inside cover	Add: Security Office, Emergency calls, ext. 550, Lodge 6
2	Change: Project Plus, ext. 417 to ext. 549
4	Add: Ext. 583, to listing for the History Department
12	Add: Andersen, Carl M., ext. 471, S-320
17	Add: Ext. 600, Lodge 2, to the listing for Anthony Fitch
19	Add: Ext. 322, to listing for Margaret Hamilton
19	Delete: Sandra Jo Hanchette
20	Change: Ifkovitz, Gerry to Ifkovits, Gerrie
20	Add: Ext. 583, to listing for Jackson, Fredi B.
20	Add: Ext. 583, to listing for Johnson, Ludwell H.
20	Add: Ext. 583, to listing for Jones, Grace L.
21	Add: Kaufman, Linda, ext. 600, Lodge 2
22	Change: Losito, W. Frank to Losito, William F.
23	Add: Metropolitan Criminal Justice Center, ext. 600, Lodge 2
24	Add: Pettengill, Donna, ext. 417, S-310
28	Add: Thomas, Charles W., ext. 600, Lodge 2
33	Add: Bauer, N. Stephen, Asst. Prof. of English, 524 Prince George St., 229-7713
33	Delete: "Honors Center" in listing for Beyer, R. Carlyle
34	Correct: Christ, Thomas W., Box 486, Toano, 564-3441
45	Correct: Phone number for Livingston, James C. to 229-4083
46	Change of Address: Messier, Louis P., 64 Mal Mae Court
46	Add: Meyers, Terry, Assistant Professor* in English, 155 Winston Drive,* 229-9807 (Shiela)
46	Correct address: Miri, Joseph A., 141-E Lake Powell Road
47	Correct address: Null, Cynthia, 29 Kirkland Court, Charisma Apartments
54	Correct phone: Van Voorhis, Jerry, 564-9748*

\*Latest Corrections



# Crapol Studies 19th Century Anglophobia



Edward Crapol

"America for Americans, and to hell with Britain and her Tories." As the nineteenth century drew to an end and the phenomenon of anglophobia reached its peak, these sentiments were echoed throughout America.

In his book, *America For Americans: Economic Nationalism and Anglophobia in the Late Nineteenth Century*, Edward Crapol, associate professor of history, argues that this intense dislike of England was current on two levels of national thought. One demanded economic, financial and political independence from England, and the other called for America's commercial

supremacy in the Western Hemisphere. Although anglophobes were not alone in raising the cry of "America for Americans," the slogan essentially reflected the era's widespread anti-British nationalism. Nativist and anti-Chinese forces used it to rally support for campaigns favoring immigration restrictions.

At the domestic level, anglophobia mushroomed as a result of increasing popular awareness of Britain's dominant role in American political and economic life. Especially involved were agrarians of the trans-Mississippi West and the South--regions where the impact of British capital was deeply felt and the resultant dependence upon England as an agricultural market prevailed as a necessary evil. The farmer's antipathy was further aggravated by deep-seated abuses implicit in the expanding American economy.

At the foreign level, the United States was on the threshold of international power and economic independence. Yet, in spite of staggering agricultural production and industrial capacity, increasing control on the domestic market and a booming export trade, the nation seemed incapable of pulling free of the British economic orbit. In response, a dynamic economic nationalism erupted, dedicated "to ending the humiliation of being a financial colony of Great Britain."

In this first full-scale study of the topic based on extensive research

into legislative documents, manuscript collections, and contemporary newspapers and journals, Mr. Crapol establishes that, contrary to the traditional view, anglophobia in the last decades of the nineteenth century cannot be understood solely as the product of Irish-American political agitation or the consequence of what Mr. Crapol calls the "quadriennial pastime of 'twisting the lion's tail.'"

A specialist in American foreign policy and recent U.S. history, Mr. Crapol received his bachelor's degree at the State University of New York at Buffalo, and his M.S. and Ph.D. degrees at the University of Wisconsin.

In the preface to his book, published by Greenwood Press of Westport, Conn., Mr. Crapol extends his gratitude to the Society of the Alumni at the College for a faculty research grant which enabled him to do research on his book in England during the summer of 1970, where he worked at the British Museum, the University of Birmingham, Oxford University, and the Public Records Office. The bulk of his book was originally prepared as his doctoral dissertation at the University of Wisconsin.

This past summer he received a faculty research grant from the College to work at the Harvard Library in Cambridge, Mass., on a forthcoming book on a study of the abolitionists and American foreign policy.

## Law Professors Study State Criminal Law

Three law professors at the Marshall-Wythe School of Law recently completed a comprehensive study of Virginia criminal law which could serve as a blueprint for the future, according to Richard E. Walck, associate professor and director of the study.

Initiated and sponsored by the Supreme Court of Virginia, this study was jointly funded by grants from the Law Enforcement Assistance Administration and the American Bar Association. The authors received assistance from the Virginia State Bar Association Criminal Law Committee, which reviewed their work.

Entitled *Comparative Analysis of American Bar Association Standards for Criminal Justice with Virginia Laws, Rules and Legal Practice*, it was written by Mr. Walck; Tom A. Collins, associate professor of law; and Timothy Sullivan, associate dean and assistant professor of law.

The study will provide information to judges and legislators on how Virginia law conforms to or diverges from A.B.A. standards. It will be of value to practicing members of the bar, to the Virginia legislature, and to State courts in general, said Mr. Walck.

In separate parts of the study, the three professors found that by and large Virginia law is in conformity with A.B.A. standards.

"The hope is that once the information in this study is available, there will be a further impetus for reform resulting in attempts to bring Virginia criminal law into conformity with A.B.A. standards," said Mr. Sullivan.

The study lists Virginia criminal laws and 16 A.B.A. standards, with comments by the three professors on dif-

ferences and similarities. Areas of criminal justice covered range from arrest of the suspected criminal offender through arraignment, trial, pre-trial release, appeals and post-conviction remedies. "The study, which digests the major cases and statutes of Virginia criminal law, will serve as a handbook for those with problems or questions concerning the criminal justice system," said Mr. Sullivan.

"The study is the first or the first in a very long time to take a comprehensive look at the criminal justice system as a whole," he added.

"A.B.A. standards were established by experts in the field of criminal law to provide minimum protection for the accused criminal and for society," explained Mr. Walck. The standards have been compiled over a period of several years. "Our study shows where Virginia law meets, is better than, or fails to meet the requirements of the A.B.A. standards," he added.

"The study will be of particular importance in the fourth circuit federal court system which includes the states of Virginia, West Virginia, Maryland, North Carolina and South Carolina," said Mr. Sullivan.

"The impact of the federal courts in the criminal justice system has grown significantly in the past 10-15 years," according to Mr. Sullivan. "The state criminal justice system must conform to federal criminal justice standards," he added. The study mentions these federal standards in their relationship to Virginia criminal law.

In his part of the study, which deals with fair trial and free press, pretrial release, electronic surveillance, discovery and procedure before trial, and joinder and severance, Mr. Walck found that "Virginia law by and

large provides as much protection for the accused and the Commonwealth as the A.B.A. standards would provide."

Mr. Collins said he was surprised by the amount of conformity between Virginia criminal law and the A.B.A. standards in the areas he reviewed, which include speedy trial, provision for defense services, pleas of guilty and prosecution and defense functions. "A.B.A. standards offer various alternatives for defense services," he said. He believes Virginia's present experimentally-based program of defense services is of particular interest. Undertaken in four Virginia localities, the program is concerned with the employment of public defenders in the court system. "The present provision for defense services in most Virginia courts makes use of appointed counsel," he added.

Mr. Sullivan reviewed the areas of trial by jury, sentencing alternatives and procedures, probation, criminal appeals, appellate review of sentencing and post-conviction remedies. As part of his comparative study of sentencing alternatives and procedures, he found that "Virginia does not at present provide the flexible and contemporary penal system contemplated by the drafters of the A.B.A. standards. This is one area in particular in which Virginia law needs to be reformed."

In their work, the authors of the study were aided by a publication which covers Virginia rules of criminal practice and procedure, jointly compiled by the Virginia State Bar and the Virginia Bar Association and entitled *Defending Criminal Cases in Virginia*.

"With the support of the A.B.A., a high percentage of states have completed studies comparing state law to A.B.A. standards," said Mr. Walck.



# OFFICE OF DEVELOPMENT

## National Science Foundation

Scientists and Engineers in Economic Development Program -  
Deadline: December 1, 1973

Research Management Improvement Program - Grants are awarded for projects directed to improving of the management of federally supported research activities and resources at universities, colleges, and independent non-profit research institutions. Proposals may request support for analyses of current management situations, developmental plans and models for improvement management, and testing and evaluation of management alternatives. In FY1973, the RMI awarded approximately \$1,000,000 to 11 projects. The awards ranged from \$7,300 to \$300,000 and the projects ran from 12 to 30 months in duration. Write: Research Management Improvement Program, National Science Foundation, 1800 G Street, N.W., Washington, D.C., 20550. Phone: (202) 632-5913

Deadline: December 31, 1973

U.S.-Japan Cooperative Science Program - This activity will enable scientists in the United States and Japan to hold joint seminars on subjects of mutual interest. The seminars are designed to bring together U.S. and Japanese scientists for discussions in areas which will be of definite value to scientists of both countries. Meetings may be held in any scientific discipline, but topics should be of particular regional interest or bring together participants of considerable research competence in a particular area.

Deadline: February 28, 1974

U.S.-Republic of China Cooperative Science Program - Types of projects include: (1) Visiting Scientist (for Short-Term--5 day to 4 week visits; Intermediate-Term--1 to 3 month visits; and Long-Term--6 month to 1 year visits), (2) Cooperative Research, and (3) Seminars.

Under Short-Term Visiting projects, support is limited to those who will be traveling to East Asia for other purposes, but who require supplemental funds for travel to Taiwan. Under Intermediate-Term visits those receiving awards may engage in consultation, symposia, research or other scholarly work. Under Long-Term visits, special attention will be given those programs for which Taiwan offers unique opportunities in the relevant science, with special consideration given to those collaborating with Chinese scientists in existing research centers (for math, chemistry, agriculture, physics, biology), or in institutions having active graduate programs.

Relative to the Cooperative Research projects, studies are encouraged in indigenous Taiwan geography and the socio-economic structure of the country--though others are acceptable. Projects of other NSF divisions, other government agencies, non-profit organizations, universities or other groups may be included under the umbrella of the Cooperative Projects.

Regarding the Seminar projects, these can be on any appropriate scientific subject, including science education. They would cover small groups of American and Chinese scientists meeting in either the U.S. or Taiwan for the exchange of information and ideas.

Eligibility is limited to U.S. citizens holding a doctoral degree (or its equivalent) for the past five years who are permanent members of the U.S. scientific community (those who have been employed as a scientist for the past five years and who are so employed at the time a proposal is submitted).

Submit proposals or letters of interest (including brief description of proposed activity) to: U.S.-Republic of China Cooperative Science Program, Office of International Programs, National Science Foundation, Washington, D.C. 20550, or phone NSF to discuss ideas on specific projects.

Research Conferences in the Mathematical Sciences -  
Deadline: December 1, 1973

NATO Senior Fellowships - Deadline: January 31, 1974

Technological Innovation in Education - Support for the development of innovative computer and related communication technologies and systems designed to improve the quality and efficiency of instruction at all levels of education. Support is provided for the exploration, development, and evaluation of (1) computer and related communication technologies and techniques; (2) computer-based concepts, applications, and courseware (instructional material); and (3) prototype computer-based systems for effective and efficient instruction.

Proposals may be submitted at any time. Four to six months should be allowed for review and final action. Guidelines are available in Mrs. Neiman's office, Ext. 519.

College Faculty Workshops - To assist in improving science curricula for undergraduate students of science in colleges and universities. The workshops are to develop, to the stage of practical implementation, educational products of national scope and utility.

The topic of a workshop may be:

(1) New material identified by leading specialists in a science area as requiring expeditious incorporation into an undergraduate science curriculum.

(2) New scientific instructional units whose development has been initiated with Foundation or comparable support and judged to be of such innovative quality as to merit nationwide utility.

(3) Educational technologies or instructional delivery systems initiated with Foundation or comparable support and judged to be of such efficiency and cost-effectiveness as to merit nationwide dissemination. Priority will be given to modes of delivery emphasizing the student's responsibility for the direction and pace of his learning in a variety of educational options.

Local course content improvements or adaptations are not objectives. The topic of a workshop must be of sufficiently broad applicability and impact as to warrant national implementation for the enhancement of undergraduate science curricula. Priority is given to the development of more efficient and effective educational procedures in newly emerging, interdisciplinary, and problem-relevant subject areas.

Proposals may be submitted at any time. Six months should be allowed for review and final action. Guidelines are available in Mrs. Neiman's office, Ext. 519.

## White House Fellows Program

Deadline: extended to December 15, 1973

## National Endowment for the Humanities

Project Grants - Deadline: March 15, 1974

Program Grants - Deadline: January 1, 1974

Summer Seminars - for the summer of 1974, applications should be postmarked no later than February 11, 1974

## American Council of Learned Societies

Grants-in-Aid for humanistic research -  
Deadline: February 15, 1974

Travel Grants for International Congresses and Conferences Abroad - Deadline: February 1, 1974

Grants for Research on South Asia -  
Deadline: December 3, 1973

Grants for Soviet Studies - Deadline: December 31, 1974

## Foreign Curriculum Consultant Program

Grants are being issued to four-year colleges to assist in bringing foreign specialists to the U.S. to help plan and develop foreign language curriculums for 1974-75.

Continued on page 5



## FSEE Test on Saturday

College seniors will have an opportunity to compete in the Federal Service Entrance Examination (FSEE) when it is given on a walk-in basis on campus November 17. Details about the test are available in the Placement Office.

During the past year 116 on-campus tests were given at 76 colleges within the Philadelphia Region which covers five states including this area. More than 2,300 men and women competed in these tests and more than 60% attained an eligible rating.

The FSEE was designed with the college student in mind. The test opens the door to approximately 60 different and challenging career fields in many Federal agencies at locations all over the country.

Open to seniors and graduates in any academic major, the program is appropriate for students in all curricula except engineering, sciences, accounting and a limited number of other technical fields. This examination remains the most popular avenue for obtaining Federal employment.

## Music Cancellation

The Italian guitarist, Massimo Gasbarroni, who was originally announced by the Department of Music to play a recital on the Collegium Musicum Series, Sunday, November 18, has been cancelled. The next program in the series will present French cellist Henri Honegger on Sunday, December 2.

## Early Class Registration

An official early registration for the spring semester of 1973-74 for juniors and seniors will be held between November 9 and 18. During this period all juniors and seniors should make an appointment with their departmental advisors and fill out registration cards. Copies of the class schedule for the spring semester will be available in James Blair Hall in the office of the Associate Dean of the Faculty of Arts and Sciences beginning November 9. Any senior or junior who fails to participate in the early registration will be required to register during the Add/Drop period January 28-February 11.

## 1974 Summer Courses

Paul N. Clem, director, Evening College-Summer Sessions, is currently seeking proposals, for courses to be offered in the 1974 Summer Sessions, from deans, departmental chairmen(women), faculty and students. As the major objective of the William and Mary Summer Sessions is to offer courses most needed by the students, Mr. Clem would like very much to have the students make their needs known. This can be done by the students speaking to their instructors, departmental chairman(woman), school dean and/or to the director of Summer Sessions.

As the 1974 Summer Sessions Preliminary Announcement must go to the printer before the Christmas break, it is imperative that all proposals be in the Summer Sessions Office (James Blair 111) by November 26. All courses proposed will be carefully considered and included in the 1974 summer program is they appear to be economically feasible.

## Sinfonicron Company Presents 'Iolanthe'



The Peers of Parliament tangle with the supernatural world of fairies in Sinfonicron's production of "Iolanthe" November 14 through 17 in PBK Hall. In the foreground are Keith Savage as Lord Mountararat and Rae Ann Lindberg and Dara Haldane, two Gilbert and Sullivan fairies.

The world of magic, gossamer, and wings will soon transform Phi Beta Kappa Hall into a memory of childhood fairy tales for the College community. The Sinfonicron Opera Company is presenting "Iolanthe," an operetta by W. S. Gilbert and Arthur Sullivan, on Wednesday-Saturday, November 14, 15, 16 and 17.

Sinfonicron, which is a combination of the men's and women's music fraternities on campus, annually revives the warmth, wit, and delightful music of this British musical team. This year's production of "Iolanthe" puts the dignity and pomp of the British Parliament at the mercy of a lively troupe of fairies as Gilbert and Sullivan satirize the peerage, who haughtily raise the cry, "Bow, bow, ye lower middle classes!"

## Student Directory Sale

Copies of the 1973-74 *Student Directory* are now available at the College Bookstore at the price of \$3 per copy.

Faculty and staff can purchase the *Student Directory* either with a purchase order or by utilizing the petty cash method if the purchase is under \$10. If the petty cash method is used, the buyer must first check with the Purchasing Office for approval. After the receipt has been returned to the Purchasing Office, reimbursement will be made from the Treasurer's Office.

Since no budget existed to pay for the publication of the *Student Directory*, the Bookstore undertook to guarantee the publication cost of approximately \$2900. Enough copies were printed to provide one for each residence hall room and one copy for each undergraduate day student. The Student Association contributed \$1700 and the Office of Student Affairs contributed \$500 toward the cost of publishing the Directory. The sale of the remaining 250 will enable the Bookstore to cover the rest of the cost of publication.

The Directory has been expanded this year to include the on-campus and local telephone numbers of students, in addition to their campus and home addresses. Telephone numbers of faculty and staff are also included in the Directory.

This year's production, under the directorship of Chris Gernand, boasts a fine cast including Kim Powell in the title role, with Bill Bonner and Donna Wine as the Lord Chancellor and the Queen of the Fairies. The romantic leads are Bob Moncrief and Kathy Farrell. These William and Mary regulars and a talented chorus battle out the riotous romantic confusion of "Iolanthe." The efforts of Darlene Fawver, vocal director, and Jim Gatling, instrumental director, insure that this production will be a truly pleasurable musical treat. Amid production effects such as ponds and water weed garments, wings and other such trappings of the fairy world, "Iolanthe" promises to be an enjoyable evening of quality entertainment.

The box office will be open daily from 3-5:30 p.m. on Nov. 13-17 and from 7:30-8:15 p.m., (curtain time) on the evenings of production.

## Karate Club

The William and Mary Karate Club will sponsor for the third time the Eastern Collegiate Karate Association Championships, held each spring and fall. Schools and colleges on the East Coast have been invited to participate.

Eliminations will begin at 12 noon Sunday, Nov. 18, in Blow Gymnasium. Admission fees are \$1 for adults and 50¢ for children and William and Mary students with I.D. cards. Proceeds will go to the Greater Williamsburg United Fund.

## Grade Reports Available

Mid-semester grades, sent to parents or legal guardians only at the request of students, are now being sent out.

Forms for making such a request are available in the Office of the Dean of Students, Room 211, James Blair Hall.

## Thanksgiving Closings

In the observance of the Thanksgiving holidays the Campus Center and Wigwam will close Wednesday, Nov. 21, at 5 p.m. and open Sunday, Nov. 25, at 4 p.m.



## Pianist to Give Concert

Joseph Banowetz, pianist, will give a public concert November 16, in the Campus Center Ballroom at 8:15 p.m. There is no admission charge.

Mr. Banowetz' visit to campus is part of the ninth annual conference of the Virginia Music Teachers Association being held November 16-18 under the sponsorship of the Music Department. The Association, currently preparing the celebration of its centennial anniversary in 1976, is one of fifty state affiliates of the oldest and one of the largest professional music teacher organizations in the United States, the Music Teachers National Association.

The convention banquet is scheduled for Saturday evening on November 17 and will be presided over by F. Donald Truesdell, professor of music, who has served as national president of the Association for the past four years. The banquet address will be given by Julio Esteban of the Peabody Conservatory of Music who is current Association president.

## Tribe Wins NCAA Meet

William and Mary took the team title in the NCAA Region Three cross country meet last Saturday at Furman. The Indians, getting five runners in the top 25, won the team title by 10 points over Western Kentucky.

The top six teams qualified for the national meet in Spokane later this year.

## Vista, Peace Corps Visit

Vista and Peace Corps representatives will be in the Campus Center lobby to talk to students on Monday Nov. 12, from 10 a.m.-4 p.m., and on Tuesday, Nov. 13, from 9 a.m.-4 p.m.

Vista and the Peace Corps encourage seniors, graduate students and law students graduating in January to apply for overseas and domestic programs which begin in January. In addition, students interested in June, July and August programs should apply now.

## New Phi Beta Kappa Members Tapped

Alpha of Virginia Chapter of Phi Beta Kappa at the College has tapped 26 members of the senior class and a graduate student in law for membership and will honor a member of the English Department as the recipient of its annual faculty award.

Elsa Nettels, associate professor of English, a member of the College faculty since 1967, will receive the Phi Beta Kappa Award for Advancement of Scholarship, presented annually in recognition of distinguished teaching and meritorious scholarship. The award is made possible through the generosity of John D. Rockefeller, Jr., who was a member of the Chapter. Miss Nettels' teaching interests include American literature and modern fiction.

New members will be initiated in ceremonies to be held December 5, prior to the annual public meeting of the Chapter in Phi Beta Kappa Memorial Hall that evening.

Although the exact place of the founding of Phi Beta Kappa is not stated in the surviving minutes of the organization, it is traditionally thought to have been founded in the Apollo Room of the Raleigh Tavern by five students of the College on December 5, 1776.

New members-elect of Alpha of Virginia chapter, their majors and hometowns include Antje Elske Huck, '73, psychology, a law student from Newport News; from the class of '74, Mary E. Austin, mathematics, Annandale; Virginia L. Baker, English, Moorestown, N.J.; Laura R. Bechtel, psychology, Pottersville, N.J.; Betsy J. Behringer, fine arts, Old Greenwich, Conn.; Sue A. Billingsley, sociology, Atlanta, Ga.; Brenda F. Buddeke, history, McLean.

In addition, Michael D. Moore, philosophy, Silver Spring, Md.; David G. Oelberg, chemistry, Hyattsville, Md.; Roger S. Pratt, inter-disciplinary, Arlington; Lawrence B. Pulley, inter-disciplinary, Virginia Beach; Gunnel E. Rinaldi, French, Yorktown; Randall L. Sarosdy, history, San

Antonio, Tex.; John D. Shillingburg, government, Fort McPherson, Ga.; Charles E. Vuksta, Jr., economics, Hellertown, Pa.; and Scott B. Wilcox, fine arts, Phillipsburg, N.J.

Also included are Sara C. Cheney, history, Arlington; Rosemary T. Enright, biology, McLean; Jack L. Helms, Jr., English, Charlottesville; Marsha L. Heney, psychology, Middlesex, N.J.; David R. Hoffman, mathematics, Williamsburg; Toni J. Hoke, mathematics, Mt. Holly, N.J.; Lucia L. Kaiser, biology, San Francisco, Calif.; Patricia A. Mayer, government, Hershey, Pa.; Patrick J. McAuley, philosophy, East Orange, N.J.; Gerald G. Miller, philosophy, Wausau, Wisc.; and Robert L. Moncrief, music, Hanover, Pa.

## Israeli Folk Dance

Due to popular demand, Hillel will sponsor a second Israeli Folk Dance Sunday, November 18, at 7 p.m. at Temple Beth El. All interested students are invited. Instructors will be present; no prior knowledge is necessary. Refreshments will be served.

## Northrop Frye to Speak

Northrop Frye, noted author and literary critic, will speak on "The Renaissance of Books," Thursday, November 15, in the Campus Center Ballroom at 8:15 p.m.

The public is invited to attend. Mr. Frye's address will open the two-day Ferguson Seminar in Publishing which will include a series of workshops on Friday.

Richard Stinely, assistant director of publications for the Colonial Williamsburg Foundation, will be one of the workshop speakers on Friday. He will discuss production and design with Joyce Kachergis, production and design manager, The University of North Carolina Press.

## Answers to E. Q. (Energy Quotient) Test

Score 1 for each correct answer.

0 - 5	Poor
6 - 7	Fair
8 - 10	Good

1. (c) Approximately half of the gas used in a gas stove is used to fuel the pilot lights because pilot lights burn continuously.
2. (a) One-third of the coal's energy gets to the consumer's home. Further losses in the consumer's appliances result, on the average, in a 94% net loss in the energy before it is ultimately used.
3. (b) In the U.S. 46% of our energy comes from petroleum. Natural gas contributes 32% and coal accounts for 17%. Dams and nuclear power plants account for most of the remaining 5%.
4. (a) Nuclear power plants account for almost none of the radiation to which Americans are exposed. The average American is exposed to:
  - 40,000 times as much radiation from outer space
  - 60,000 times as much from his immediate surroundings
  - 25,000 times as much from his own body
  - 100,000 times as much from his house if it is made of stone

5. (c) Ninety-four per cent of the energy in the gasoline from crude petroleum is lost in making your car move. The efficiencies of the most important steps where energy is lost are:

producing the crude oil . . . . .	96%
refining . . . . .	87%
gasoline transport . . . . .	97%
engine thermal efficiency . . . . .	29%
engine mechanical efficiency . . . . .	71%
rolling efficiency . . . . .	30%

The total efficiency of the system is found by multiplying the six factors together: 6%.

6. (c) More than a third of the world's energy is consumed by the 6% of the world's population residing in the United States.
7. (b) A 100 watt lamp could burn for 5 hours on the energy used to manufacture a disposable can or bottle.
8. (c) Nuclear power plant  
Jet flight  
Watching color TV
 

	Relative amount of radiation
	1 unit
	2 units
	10 units
9. (c) Natural gas reserves in the U.S. are expected to be exhausted in about 40 years. Petroleum should last for a century. Coal, 500 years or so.
10. (b) For more than a century, American demand for energy has doubled, on the average, every 20-25 years.



# THE CALENDAR

## TUESDAY, NOVEMBER 13

Mortar Board China Display: CC, Lobby, 9 a.m.  
 Vista and Peace Corps: CC, Lobby, 10 a.m.  
 Board of Student Affairs: CC, Room C, 12:30 p.m.  
 Federal Government Employment Seminar: CC, Rooms A&B, 3 p.m.  
 Faculty Meeting: Millington Aud., 4 p.m.  
 Interhall Council: CC, Room C, 4 p.m.  
 SA Senate: CC, Theatre, 7 p.m.  
 Amateur Radio Club: CC, Green Room, 7 p.m.  
 Catholic Mass: Wren Chapel, 7 p.m.  
 Wesley Foundation School of Religion, Bible Study: 526 Jamestown Rd., 7:30 p.m.  
 Fellowship of Christian Athletes: CC, Room D, 8 p.m.  
 Black Students Organization: Lodge 14, 8 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, Lobby, 9:30 p.m.  
 Spanish Discussion Group: Botetourt Residences Unit 9, 10 p.m.

## WEDNESDAY, NOVEMBER 14

Placement Office: CC, Lobby, 11 a.m.  
 Free-University Dance Class: CC, Ballroom, 5 p.m.  
 WRA Bridge Tournament: CC, Sit 'N Bull Room, 6 p.m.  
 Panhellenic Council: CC, Room C, 6:30 p.m.  
 Circle K: CC, Rooms A&B, 7 p.m.  
 Project Plus Forum: Millington Aud., 7:30 p.m.  
 Lecture by Prof. Peng, "U.S.-Chinese Relations": Small 113, 7:30 p.m.  
 Peninsula Chapter A.C.L.U. Public Meeting: "Why It Is Necessary to Impeach President Nixon," by Arlie Schardt, Associate Director, National A.C.L.U. office, Washington, D.C., CC, Theatre, 8 p.m.  
 Sinfonicon Performance: "Iolanthe," Phi Beta Kappa, 8:15 p.m.

## THURSDAY, NOVEMBER 15

National Center for State Courts: CC, Gold Room, 9 a.m.  
 Informal Coffee Hour: French Language House, Botetourt Residences Unit 6, 3-5 p.m., all interested students and faculty welcome  
 Christian Science Organization: CC, Green Room, 4:30 p.m.  
 Episcopal Holy Communion: Wren Chapel, 5 p.m.  
 Free-University Photography Class: CC, Theatre, 7 p.m.  
 Ferguson Seminar Lecture: "The Renaissance of Books," Northrop Frye, University of Toronto, CC, Ballroom, 8:15 p.m.  
 German Cultural Series Film: "Deutschlandspiegel," Botetourt Residences Unit 5, 8 p.m.  
 Physics Department Lecture: "The Christmas Comet: What It Is and How to See It," Prof. Carl-Edwin Carlson, Small 109 & 113, 8 p.m.  
 Sinfonicon Performance: "Iolanthe," PBK, 8:15 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, Lobby, 10 p.m.  
 Spanish Discussion Group: Botetourt Residences Unit 9, 10 p.m.

## FRIDAY, NOVEMBER 16

Department of Music: Annual Convention of Virginia Music Teachers Association, Ewell 100, 2 p.m.  
 English Department Film: "Red Badge of Courage," CC, Theatre, 4 p.m.  
 W&M Christian Fellowship: CC, Theatre, 6:30 p.m.  
 Hillel: Temple Beth El, 7:30 p.m.  
 SA Films: "The Wild Bunch," W&M Hall, 8 p.m.  
 "Night at the Opera" (Marx Bros.), W&M Hall, 10:15 p.m.  
 Sinfonicon Performance: "Iolanthe," PBK, 8:15 p.m.  
 Virginia Music Teachers Association Recital: Joseph Banowitz, Piano, CC, Ballroom, 8:15 p.m.

## SATURDAY, NOVEMBER 17

Department of Music: Annual Convention of Virginia Music Teachers Association, Ewell 100, 9 a.m.  
 Circle K: Millington 117, 10 a.m.  
 Organ Recital: Wren Chapel, 11 a.m.  
 Phi Delta Phi Party: CC, Sit 'N Bull Room, 11 a.m.  
 Football: W&M vs. Richmond, Cary Stadium, 1:30 p.m.  
 Rugby: W&M vs. Georgetown, Intramural Field, 1:30 p.m.  
 Sinfonicon Performance: "Iolanthe," PBK, 8:15 p.m.  
 Agape Coffee House: Wesley Foundation, 526 Jamestown Rd., 9 p.m.-12 midnight  
 Sigma Chi Dance: CC, Ballroom, 9 p.m.

## SUNDAY, NOVEMBER 18

Eastern Collegiate Karate-doh Championships: Blow Gym, 9 a.m.  
 Department of Music: Annual Convention of Virginia Music Teachers Association Ewell 100, 9 a.m.  
 "Changing of the Guard": a short performance by the Queen's Guard, campus side of the Wren Building, 1 & 4 p.m.  
 Baha'i Association: CC, Gold Room, 3 p.m.  
 Baptist Student Union: 244 S. Boundary St., 5 p.m.  
 Uncle Morris Coffee House: Fraternity Complex Unit B, 9-12 p.m.  
 German Discussion Group: Botetourt Residences Unit 5, Lobby, 9:30 p.m.

## MONDAY, NOVEMBER 19

Delta Delta Delta Banquet: CC, Ballroom, 5:30 p.m.  
 Women's Equality: CC, Rooms A&B, 8 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, Lobby, 9 p.m.

## TUESDAY, NOVEMBER 20

Interhall Council: CC, Room C, 4 p.m.  
 SA Senate: CC, Theatre, 7 p.m.  
 Catholic Mass: Wren Chapel, 7 p.m.  
 Wesley Foundation School of Religion, Bible Study: 526 Jamestown Rd., 7:30 p.m.  
 Audubon Wildlife Series Film: "Twentieth-Century Wilderness," Tom Sterling, CC, Ballroom, 7:45 p.m.  
 Fellowship of Christian Athletes: CC, Room D, 8 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, 9:30 p.m.  
 Spanish Discussion Group: Botetourt Residences Unit 9, 10 p.m.

## WEDNESDAY, NOVEMBER 21

Thanksgiving holiday begins 1 p.m.  
 Circle K: CC, Rooms A&B, 7 p.m.

## THURSDAY, NOVEMBER 22

no activities scheduled

## FRIDAY, NOVEMBER 23

Hillel: Temple Beth El, 7:30 p.m.

## SATURDAY, NOVEMBER 24

Organ Recital: Wren Chapel, 11 a.m.

## SUNDAY, NOVEMBER 25

no activities scheduled

## MONDAY, NOVEMBER 26

Thanksgiving holiday ends 8 a.m.  
 W&M Theatre Lobby Display: Carlton Abbott (through December 14)  
 English Department Film: "Othello," Millington Aud., 4 & 7 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, Lobby, 9 p.m.

## TUESDAY, NOVEMBER 27

English Department Film: "Othello," Millington Aud., 4 & 7 p.m.  
 Interhall Council: CC, Room C, 4 p.m.  
 SA Senate: CC, Theatre, 7 p.m.  
 Amateur Radio Club: CC, Green Room, 7 p.m.  
 Catholic Mass: Wren Chapel, 7 p.m.  
 English Club: "Narrative Method in James and Conrad," Elsa Nettels, PBK, Dodge Room, 7:15 p.m.  
 Wesley Foundation School of Religion, Bible Study: 526 Jamestown Rd., 7:30 p.m.  
 Fellowship of Christian Athletes: CC, Room D, 8 p.m.  
 French Discussion Group: Botetourt Residences Unit 6, Lobby, 9:30 p.m.  
 Spanish Discussion Group: Botetourt Residences Unit 9, 10 p.m.

## CLASSIFIED ADVERTISEMENTS

### FOR SALE

Royal Electric Typewriter (Electress), writes in English, French, Spanish. Special pica type. Good condition. \$140. Also, elite Electress, very cheap. 229-1929.

1968 Pontiac LeMans, Red, P/S, A/C, automatic transmission (recently replaced), radio, \$750, 220-0437 evenings after 6 p.m.

Kenmore coppertone stove, 30", four burners, window oven, clock. Good condition. \$50 firm. After 5 p.m., 229-8549.

1965 Chevy Impala. Air conditioned, power steering, good condition. \$500 or best offer. 229-3375 before 4 p.m., 229-3312 after 5:30 p.m.

Large brick home on College Terrace, within walking distance of College and Restoration. 3700 sq. ft. of living area plus basement. Finest 1938 construction. By owner, 229-1080.

Teak coffee table, \$7. Walnut dining table, 3 leaves, 6 chairs--cane backs, leather seats, \$125. Twin bed, foam mattress on firm base, adjustable base, \$25. Folding full length mirror, \$10. Tall table lamps, \$15. Travertine marble & brass coffee table, \$65. Tent, 9x12, \$30. 2 heavy sleeping bags, zip together, \$25. Black nylon sheer curtains, 8 panels, \$1 each. Printed colored sheets. Assorted women's clothes: sweaters, coats, long skirts, good looking, good cond., size 10 & 12. Shoes & boots, size 7-1/2. Lady Schick electric curlers, \$6. Hot tray. Call 220-0143.

Crib & Mattress, \$45; 2 carriages, \$19 & \$10; car seat, \$8; back pack, \$5; changing table, \$10; divider, \$3. 229-8622.

2 Sears 5000 BTU 110v window air-conditioners. Take 1 or both, best offer. 229-0374 after 5 p.m.

### FOR RENT

Large 4 bedroom furnished house available from Feb. 1 to August 1 while owner is on leave of absence. Central air conditioning, large deck, appliances. \$300/mo. Call 229-8674 evenings.

Available immediately, Greensprings area, brick rancher, 5 bedrooms, 2 baths, living room/fire place, dining room, family room, kitchen with all appliances, central air, storm windows, wall to wall carpet, garage/work shop, acre lot with fruit trees. \$340/month, long term lease preferred. Families only. Call 229-1754.

FURNISHED APARTMENT, near campus, pleasant location. \$110 per month, lights, heat extra. Married couple only, no pets or children. 229-1929.

College of William and Mary  
 Williamsburg, Virginia 23185

### FOUND

Found in the Student Health Services Center: 2 keys on chain with the word "Marathon" written on it; a book, *The Primates*. Contact Mrs. Bettye Bracey, head nurse.

### LOST

Gold Frame Glasses with Photo-Ray lenses; blue case. If found, please call Kim Ness, Ext. 264.

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