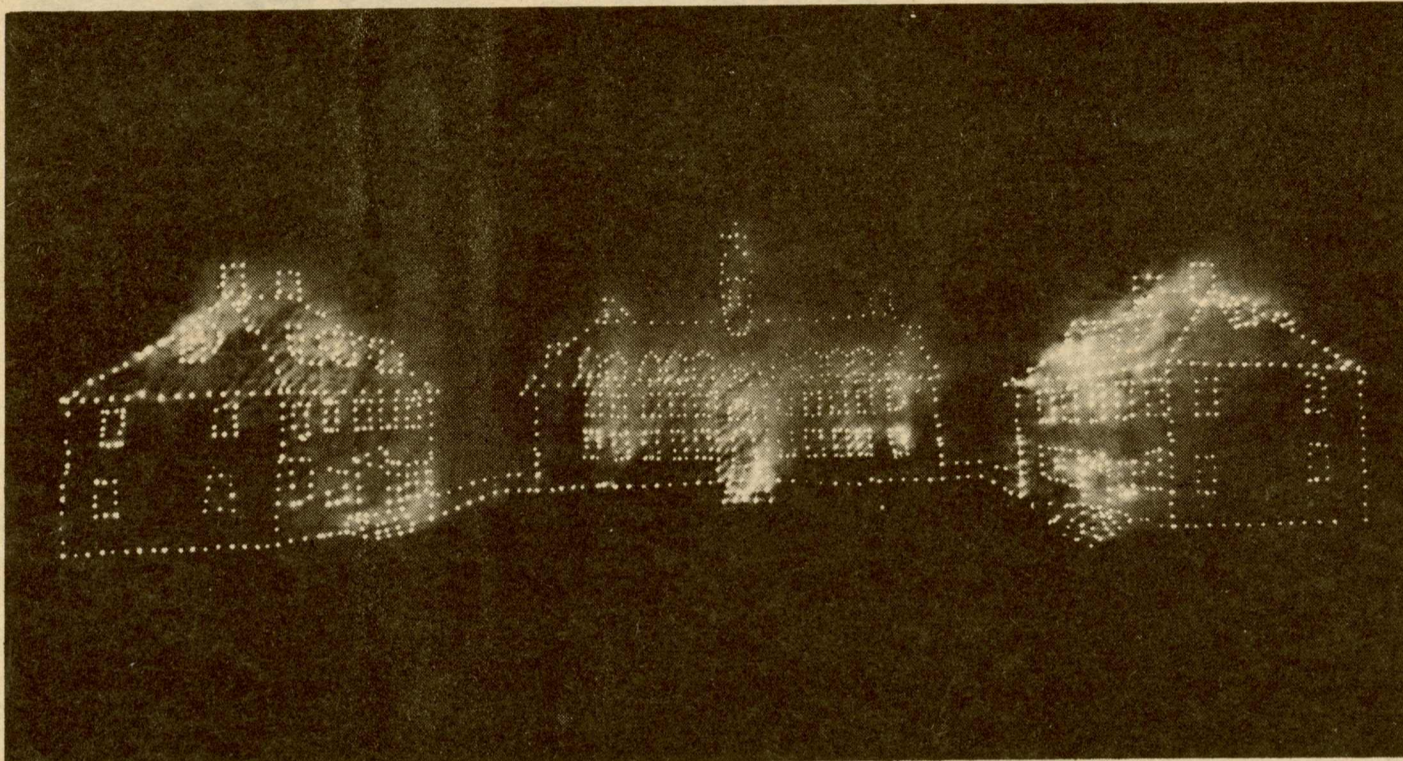


# William and Mary News



Volume I, Number 39

July 3, 1973



## Happy Fourth of July!

Tomorrow commemorates the signing of the Declaration of Independence 197 years ago. Williamsburg photographer Thomas L. Williams captures the spirit of the Fourth of July with this spectacular scene of pyrotechnics staged several years ago by Colonial Williamsburg. In a special tribute to the College the display included this unusual tableau of the Wren Building with the Brafferton (1) and the President's House.

## W&M Awarded \$400,000 Law Enforcement Grant

The U.S. Law Enforcement Assistance Administration has awarded \$400,000 to William and Mary to further work in the field of juvenile crime and delinquency being undertaken by the Pilot City Program in Chesapeake, Norfolk, Portsmouth and Virginia Beach.

The LEAA is the federal agency responsible for distributing federal funds to state and local governments for anti-crime programs. The agency's Pilot City Program functions in eight areas throughout the nation. Each of the eight programs is responsible for providing expert assistance to its host area in criminal justice research and planning and the development of effective anti-crime programs.

The Tidewater Pilot City Program is administered by the College's Metropolitan Criminal Justice Center in cooperation with the criminal justice planners and other officials and is the only program in the nation to have focused its attention particularly on the juvenile crime problem. The local program was established in 1971 as a five-year effort.

The new award will provide support for the second of three twenty-month periods.

Warren Heemann, Vice President for College Development, who was responsible for the initial planning and implementation of the program, said the new award will enable the program to move forward in its already well-established research activities in the area of juvenile crime.

He cited the study of pre-trial juvenile detention in Norfolk; the development and distribution of a police juvenile handbook for police officers in each of the four cities and the development of monographs on police planning units as well as criminal justice research as aspects of the program which would receive continued support under the new grant.

The staff of the local program consists of five full-time specialists and several part-time associates and includes lawyers, sociologists, psychiatrists, law enforcement planners, and information management experts. The variety of backgrounds, experiences and training is intended, according to W. Anthony Fitch, the director of the program, to provide a comprehensive or "systemic" approach to anti-crime planning.

"Prevention and solving crime and rehabilitating offenders have become so difficult and complicated," said Mr. Fitch, "that no one person can have an adequate understanding of the various major problems and their possible solutions. The interdisciplinary, team approach gives us at least a fighting chance to suggest comprehensive responses to these intricate problems that have some degree of effectiveness and economy."

At the present time, the Pilot City Program concentrates its research, planning and program development activities on the policing function and the opera-

tion of the juvenile justice system. These are the two areas, Mr. Fitch explained, which require the greatest expenditure of local resources and involve the majority of local criminal justice personnel.

All of the program's activities are cleared and conducted in cooperation with criminal justice planners and other officials in each of the four cities. "They're tremendous people to work with," said Mr. Fitch of local criminal justice personnel.

The Program also clears its long-range plans and goals with the host jurisdictions. "Thanks to the cooperation we've received from each of the four cities, we're right on or ahead of schedule in nearly every respect. For a major, complicated program such as this, that in itself is a major accomplishment. I wish we could claim the credit but it belongs primarily to the officials we work with," Mr. Fitch said.

### Graduate Students in Education

The services of the Office of Teacher Placement are available to you. If you are graduating this summer it is to your advantage to establish your professional credentials with this office. Contact Mr. Sykes or Mrs. Adams, Office of Teacher Placement, Washington 212, Ext. 467 for details of the services available to you.

### Field Study Program Accepting Applications

Applications are now being accepted by the Office of Special Programs for a one-day field study of Fossils of the Lower Peninsula to be held Saturday, July 21.

The field study will be conducted by Gerald Johnson, associate professor of geology.

This is the second such program to be offered by the College. The first, held in May, proved very popular and many applicants were turned away because of lack of space.

The program will begin at 8:30 a.m. with an illustrated introductory lecture on the geology of the Williamsburg-Tidewater area at the Virginia Associated Research Campus, 12070 Jefferson Avenue, Newport News.

Participants will then be taken by bus to six locations where they will have the opportunity to collect ancient marine and brackish water fossils which lived in the seas and rivers that covered Tidewater Virginia ten to fifteen million years ago. The bus will return to VARC at 5 p.m.

A \$15 registration fee will be charged for the program. This will cover the lecture, transportation by bus to all sites, and the entrance fee.

Participants should dress in field clothes and bring their lunch, collection equipment, such as a small trowel, and collection bags and a pencil.

### Programmed Latin Course Offered This Summer

William and Mary is the only school this summer to offer a special programmed Latin course for language teachers in cooperation with the Encyclopedia Britannica.

Twenty-eight teachers are enrolled in the course.

The course is being offered as part of the College's annual Summer Institute in Latin and the Humanities. Prepared and published by the Encyclopedia Britannica, it is an introduction to a new multi-media approach using self-teaching techniques to communicate the fundamentals of the language. The language study is correlated with the use of materials on Greco-Roman culture and civilization.

The instructor is Stuart L. Wheeler, assistant professor of ancient languages at the University of Richmond. Mr. Wheeler has taught at past Institutes at the College and works with the State Department of Education in the evaluation of high school Latin programs.

Programmed Latin courses have been offered at one university in the country each summer for the past several years.

## Business Administration

William and Mary was among Virginia colleges which recently received a series of financial publications furnished by the First & Merchants Corporation of Richmond.

The School of Business Administration at the College received a collection of research papers published in recent years by the Association of Reserve City Bankers.

The publications are aimed at providing a better understanding of the banking business, its opportunities, and its future to business students and faculty members. About 20 publications are included with topics ranging from the "Competitive Position of Commercial Banks" to the "Adequacy of Bad Debt Reserves."

## Chemistry

Wolf Moser of the University of Aberdeen, Scotland, visiting professor of chemistry at the College last year, paid a return visit to Williamsburg recently as the guest of Mr. and Mrs. S. Y. Tyree, Jr.

Mr. Moser was in Williamsburg for several days before leaving for a scientific conference at Dartmouth College, called to study the techniques available to investigate the structure of matter. He visited friends at Union College, Schenectady, N.Y., following the conference and was scheduled to return to Scotland, July 3.

The University of Aberdeen has historic tie with the College of William and Mary. James Blair, first president of William and Mary, attended one of the two colleges which later merged to form the University of Aberdeen.

## Staff Notes

## Printing Department

Clyde Rocklyn Hounshell of Chickahominy recently joined the staff as an offset duplicating operator. He comes to William and Mary from Boswell Supply Company, Williamsburg.

## Swem Library

Three staff members of the Cataloging Department have recently received promotions to higher positions. Jean Marie Peet, who has held a clerk-typist C position since November, 1972, assumed duties as library assistant, July 2. Mrs. Peet is a graduate of Connecticut College and holds an M.A. in history from the University of Connecticut.

Brenda Heywood of Hayes, who has held a clerk-typist A position since June 16, 1972, will assume duties as a clerk-typist C in the Cataloging Department July 16. Miss Heywood is a 1972 graduate of Gloucester High School.

Kay Hogge of Achilles, who has been employed as assistant processing clerk since June 12, 1972, will assume duties as chief processing clerk (clerk-typist C), July 16. Mrs. Hogge is a 1972 graduate of York Academy in Shackelfords.

## Music

Alan Stewart, professor, taught the instrumentality and music theory of the viola at the 14th annual Roanoke youth orchestra workshop at Hollins College in June.

More than 70 young musicians, representing various levels of proficiency, participated in classes, ensemble rehearsals, practice, individual tutoring, and planned recreation at the workshop.

The camp is sponsored by the women's auxiliary of the Roanoke Symphony Society and assisted by members of the Roanoke Symphony Orchestra and various area and out-of-state musicians.

The Hollins session featured a faculty concert June 13 and a closing rehearsal concert June 16.

## Virginia Academy of Science

Several members of the faculty have been named as section leaders or committee members of the Virginia Academy of Science: member of the Council and Junior Academy of Science Committee, Bruce K. Goodwin; Awards Committee, Stanley S. Williams; Long Range Planning Committee, Kenneth F. Bick.

Also Publications Committee, Stewart Ware; Virginia Flora Committee, Donna M. E. Ware; section officers - Astronomy, Mathematics, and Physics, George W. Crawford, secretary; Biology, Garnet R. Brooks, vice chairman; and Botany, Mrs. Ware.

Three additions to the Library staff have been announced by librarian William C. Pollard:

Judy F. Farmer of Newport News assumed duties as a clerk-typist B in the Periodicals Department, June 20. A graduate of Randolph-Macon Woman's College, Mrs. Farmer was employed as a library assistant in the Periodicals Department of Virginia Western Community College in Roanoke for three years. Her husband is a computer programmer at Thomas Nelson Community College.

Geraldine Knight of Newport News began employment as a clerk-typist B in the Cataloging Department, June 20. A graduate of Hampton High School, she was employed at United Virginia Bank in Newport News for nine years prior to joining the Swem Library staff. Mrs. Knight has a six-year old son.

Linda Carol Haywood of Mathews joined the Swem staff, July 2, as a clerk-typist A in the Cataloging Department. Miss Haywood is a 1973 graduate of Mathews High School.

Three staff members attended the 92nd annual conference of the American Library Association in Las Vegas, Nev., June 24-30: William C. Pollard, librarian; Mary Louise Cobb, head, Cataloging Department; and Berna Heyman, assistant catalog librarian.



Seated: Margaret Harris (l) & Barbara Viall

Standing: Barbara Richerson (l) & Linda Waddles

Helping to get Summer School underway for a student enrollment of over 1600 are four members of the Summer Sessions staff who are involved with a variety of duties.

As secretary for the Summer School, Mrs. Margaret Harris is a newcomer with two months of experience. However, she is well-acquainted with the College, having worked for a total of nine and one-half years in the Departments of Theatre and Speech, Ancient Languages, Chemistry, and in the Dean of the Faculty's office.

A graduate of Gloucester High School, she belongs to the Providence Baptist Church in Gloucester where she is the director for the Girls Action Organization. At home she enjoys gardening, crocheting, reading and cooking. Her husband, Ben, is employed by the Naval Weapons Station.

Formerly the Summer School secretary for five and one-half years, Mrs. Linda Waddles has currently undertaken a temporary assignment to help with registration. She observed that the busiest month for the Summer School Office is May. This heavy work load continues through August, then the Evening College work takes precedence in the fall. By November, it is time to begin preparations for Summer School the following year.

Mrs. Waddles has seen the Summer School enrollment nearly double since 1967, with education and business courses becoming increasingly popular.

## Open Education Lecture

Graham Bond of Sussex, England, an authority on the concept of open education, will give a public presentation on this topic in the Campus Center Little Theatre, Wednesday, July 11, at 2 p.m.

Mr. Bond is in Williamsburg as director of the Institutes on Open Education being conducted by the School of Education in cooperation with the Williamsburg-James City County Public School Division. He is the headmaster of the Marshlands Primary School in Hailsham, England, and has served as a senior lecturer at Goldsmith's College of the University of London.

Mr. Bond's lecture is being sponsored by the William and Mary chapter of Phi Delta Kappa education fraternity.

A graduate of Ferguson High School, she attends Warwick Baptist Church in Newport News, where she is a counselor for Girls Action. She enjoys sewing in her spare time at home.

Married to Jackie Waddles, who is employed by the Newport News Shipyard, they have one child, Keith, three years old.

Mrs. Barbara Viall is the Evening College secretary. A graduate of Weldon High School, in Weldon, N.C., she and her husband, Roger, make their home in Lanexa. He is a self-employed carpenter.

Mrs. Viall has worked for the Summer School for one year and three months. She was formerly employed by the Men's Physical Education Department for two years. She enjoys sewing, knitting and gardening.

Barbara Richerson is a part-time employee at the Summer School Office. She has been there for two months. Mrs. Richerson formerly attended the College. Her husband, David is a government major at William and Mary. He will graduate in January.

# William and Mary News

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Mrs. Eleanor R. Anderson

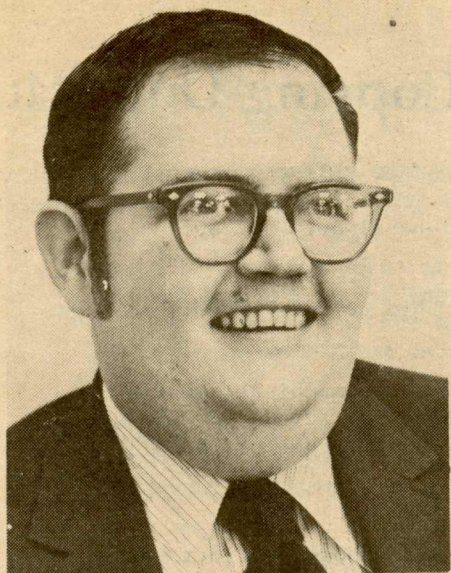
Assistants:

Miss Sharon Kurtz

Mrs. Gay Money

Miss Carolyn Gray

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



Robert L. Burr

### Swem Library Fills Post

Robert L. Burr assumed duties as head of the Circulation Department, June 23. A graduate of Canisius College in Buffalo, N.Y., Mr. Burr received his M.S.L.S. degree from Case Western Reserve in May, 1973. During the period Dec. '72-Jan. '73, he served as an intern in the Canisius College Library, where he undertook several projects under the direction of the chief librarian.

Prior to enrolling in the School of Library Science at Case Western Reserve, Mr. Burr held supervisory positions with Audn Corporation of Hamburg, N.Y. and with Carleton Controls Corp., East Aurora, N.Y.

He served on active duty with the U.S. Army for two years and earned three achievement citations. He is a member of the American Management Association, the Ohio Library Association and Mensa, an organization in which members are required to be in the top 2% of the population in general intelligence.

### Thieme's Restaurant Purchased by College

The College has made arrangements to purchase the property at 303 Richmond Road which has been operated as Thieme's Restaurant and is owned by Mr. and Mrs. Arthur K. Thieme of Williamsburg; their daughter and her husband, Frederick Feller, Jr., of New York.

An announcement concerning the property was made recently by William J. Carter, vice president for business affairs. The purchase price is \$250,000.

The purchase of the property, said Mr. Carter, will enable the College to protect its environment and will provide student housing during the next several years of dormitory renovation on campus scheduled to begin this summer.

### Twenty-three in Summer Camp

Twenty-three ROTC cadets from the College are attending summer camp. Seventeen are at Fort Bragg, N.C., and three each at Ft. Riley, Kan., and Ft. Benning, Ga.

### Mortar Board Meeting

Barbara Blake, '74, of Alexandria, recently returned from the 22nd National Triennial Conference of Mortar Board, which took place at The Ohio State University in Columbus, Ohio. She was the official delegate from the William and Mary chapter of which she is president.

## 'Common Glory' Cast in Special Productions

Cast members from "The Common Glory" will stage an 18th century adaptation of Shakespeare's "Taming of the Shrew" on several Sunday evenings this summer.

They will stage David Garrick's "Katharine and Petruchio" at 8:30 p.m. Sundays, July 15 and 29 and August 5, in the Lake Matoaka Amphitheatre on campus.

It is traditional for performers in the outdoor drama to stage Shakespeare on Sunday nights when "The Common Glory" isn't given. The performances by these "Shakespearean Players" are given free of admission charge, but a silver donation to defray costs is requested. In the event of rain the show will be given indoors in Phi Beta Kappa Hall.

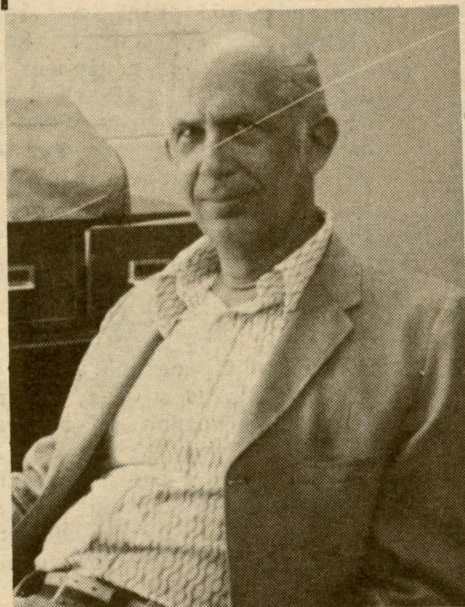
"Katharine and Petruchio" will be directed by Howard Scammon, director of the William and Mary Theatre and "The Common Glory." The play will be given in the manner and style of the 18th century when Garrick made his adaptation of Shakespeare for the London stage.

Also scheduled to be performed along with "Katharine and Petruchio" are the rustic scenes from Shakespeare's "Midsummer Night's Dream."

Several specialty numbers--such as song and dance routines and perhaps a pantomime--will be presented between acts. Such between-acts entertainment was common in the 18th century.

Barbara McCulloh, a William and Mary student from Laurel, Md., will appear as Katharine and Tom Boyle, a 1973 graduate of the University of Maryland, will appear as Petruchio. In "The Common Glory" Miss McCulloh is the general female understudy and a member of the choir. Mr. Boyle has the unusual dual role of Peter Pelham, Williamsburg's 18th century jailer, and George Washington.

## Warehouse Supervisor Appointed



Clifford Myer

Clifford H. Myer assumed the position of supervisor of College warehouse activities on July 1. Mr. Myer will be responsible for the receipt, storage and issue of approximately 3500 different line items.

Mr. Myer was employed by Colonial Williamsburg prior to

## Promotions in Maintenance Announced



Mattie B. Williams (l) &amp; Rebecca Williams

The promotion of two members of the Department of Buildings and Grounds staff was recently announced by Mr. Kipps, executive housekeeper.

Mattie B. Williams, who joined the staff more than forty years ago as a maid in Tri-Delta and Kappa Delta sorority houses, was promoted from housekeeping supervisor A to housekeeping supervisor B, effective July 1. She will assist directly in the operation of all women's residence halls.

Rebecca Williams, promoted from a custodial worker to housekeeping supervisor A, has worked in duPont Hall five of her seven years on campus. She will be in charge of the New Residence Complex and duPont.

"I can write a book on the changes that have occurred at William and Mary since my arrival Sept. 1, 1932," says Mrs. Mattie Williams. She was promoted to housekeeping supervisor A seven years ago.

Mrs. Williams is the mother of three sons. Eddie Williams is manager of the Universal Travel Agency, Inc., in Newark, N.J. Douglas Williams is employed by

the Colonial Caterers of Williamsburg, and Rev. L. F. Williams is pastor of Zion Baptist Church in Williamsburg.

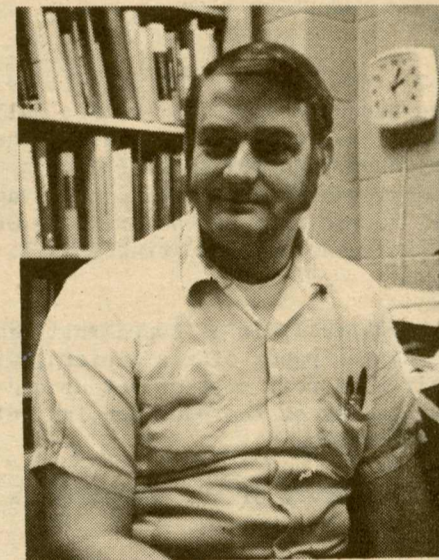
She is a member of Mt. Ararat Baptist Church in Williamsburg. She sings in the choir and is a member of the Missionary Circle.

Mrs. Rebecca Williams worked at the Rexall Drug Store 26 years before becoming a member of the William and Mary staff.

She is the foster mother of Kermit, 17, who will enter Virginia State College this fall, and Derrick, a tenth grader at York High School. Her husband, Arthur, is employed by the Naval Weapons Station in Yorktown.

Mrs. Williams is a member of St. John Baptist Church, Toano, and sings in the church choir.

### Psychology Professor Receives Grant



E. Rae Harcum

A federal grant of \$21,236 for research in reading and verbal learning has been awarded to E. Rae Harcum, professor of psychology.

The research grant, for the coming year, is the third of a three-year grant from the National Institute of Child Health and Human Development of the Department of Health, Education and Welfare. Mr. Harcum has received a total of about \$242,000 in HEW grants for research over the past 14 years.

This summer he will be working with the reading problems of children enrolled in the College Reading Center.

joining the William and Mary staff. During his 13 year tenure with CW, he managed the Motor House Cafeteria, the Williamsburg Inn Dining Room, King's Arms Tavern, Christiana Campbell's Tavern, and the Central Commissary.

He retired with the rank of chief petty officer after 21 years of service in the U.S. Navy.

His wife, Mildred, is a senior hostess at the Holiday Inn East, where she has been employed for the past 11 years.

Both of the Myers' children are alumni of the College. C. Fred Myer, '65, is a data and office processing salesman with IBM Corporation in Eugene, Ore. Carol Myer, '69, is director of the Welfare Office for the City of Williamsburg. She is currently enrolled at the College working on her master's degree in business administration.

A native of Cincinnati, Ohio, Mr. Myer attended the University of Cincinnati and the University of California at Berkeley.

## Copying-Duplicating System Under Revision

A new approach to providing copying-duplicating support to the College will be put into effect gradually, beginning this summer. The new program--aiming toward an upgrading of equipment and a total cost savings approaching \$50,000 a year--is based on a four-month study of existing operations and an analysis by a private consulting firm.

The consulting firm's report is published in summary form below. Copies of the complete report are in the hands of each dean and department head.

A special committee, including Vice President William J. Carter; W. T. Allen, Director of Purchasing; Charles Reeder, Director of the Audio-Visual Center at the Swem Library; James Chalkley, Supervisor of the Printing Office; and Ross Weeks, Director of Information Services, conducted the study. The committee's report was made to the President and Administrative Council early in June.

Generally, it appears that the College is over-equipped in this field, and yet many smaller departments lack access to adequate copying-duplicating equipment. Much of the equipment purchased over the years is underutilized, and some of it is outmoded. Moreover, many of the Xerox machines leased by various departments are not producing the minimum monthly volume of copies for which we are automatically billed; the machines are not always well serviced, and billings are frequently confusing. The central Printing Office is faced at times with an overwhelming volume of work, with neither the equipment nor the space to meet deadlines.

The following plan has been adopted in order to improve equipment available to departments for convenience copying and duplicating, while at the same time providing more substantial central duplicating capability at less cost:

1. A moratorium, in effect since July 1, will be continued indefinitely on acquisition or upgrading of equipment relating to copying and duplicating at the departmental or school level. Justifiable new needs will be explored and, hopefully, met by reallocating underutilized equipment already on the campus.

2. A plan proposed by the Xerox Corporation will be put into effect as soon as practicable. The plan views the College, rather than individual schools and departments, as lessee of the equipment; the equipment will be allocated to convenience copying centers for each major academic and administrative building. Xerox billings will be paid centrally by the College, and users will be charged by the College at a flat rate per copy for their specific monthly volumes. Access to Xerox equipment will be by means of Auditor devices issued to each departmental office; these devices activate the machines and also record the number of copies made each time.

3. The Printing Office will be moved as soon as possible to more adequate space in Trinkle Hall. An automated offset duplicating system will be installed there and operated by existing personnel. Approximately a dozen pick-up and delivery points will be designated across the campus, and daily service to these points will be provided by the Printing Office. While-you-wait service will be available at Trinkle Hall.

In general, it is hoped that mimeograph and ditto equipment, and coated paper office copiers, will be phased out because of their high real cost of set-up and operation, and because of their low quality of reproduction, as well as because of generally high repair costs.

The summary of the consultant's report follows:

### SUMMARY OF RECOMMENDATIONS

#### VOLUME OF OUTPUTS AND INPUTS

1. Continue the moratorium on acquisition of copying or duplicating equipment.
2. Reverse the policy of permitting departments to create their own copy centers.
3. Reduce the number of copy centers to one per building.
4. Recapture surplus space and equipment.
5. Avoid Xerox copiers in decentralized locations.
6. Create a central budget for copying and duplicating equipment.
7. Examine the duplicating and copying volumes of the handful of departments that account for 50 percent of the total.

#### FACILITIES AND SERVICE

1. Establish an offset copy center in James Blair Hall.

2. Divert runs over three per original to this center that are now being produced on copiers, as well as current offset duplicating. Direct savings will be almost \$53,000.
3. Divert 1,000,000 mimeo copies to this center. Direct savings will be about \$2,500.
4. Reduce decentralized copier total to 22 machines, mostly coated paper units. Review the need for Xerox 7000 in Audio-Visuals and replace with a less costly machine if possible.

### INTRODUCTION

This report contains the findings and recommendations emerging from the study conducted during March and April 1973 of copying and duplicating at the College of William and Mary.

Information required for the study came from the College's very thorough responses to initial data requests and telephone discussions about these responses, and then from a one-day visit by a two-man team with the Vice President for Business Affairs, the Assistant to the Executive Vice President, the Supervisor of the Printing Office, the Supervisor of Purchasing and Stores, and the Director of Library Audio-Visual Services. During this visit most of the numerous copying and duplicating centers on the campus were inspected, in addition to the Printing Office.

Principal consultant for the study has been Kenneth G. Scheid, President, Kenneth G. Scheid and Associates, assisted by Professor Frederick J. Amery, Vice President.

### VOLUME OF OUTPUTS AND INPUTS

So far as we can determine, drawing upon Xerox invoices, Audio-Visuals Services tabulations and monthly or annual usage estimates provided to us, the total copying and duplicating volume at William and Mary now amounts to about 8,400,000 copies annually.\*\*\*

The question is whether this volume of copying and duplicating has reached the point of negative returns. That is, have some of the recent increases in output cost more, in added equipment, personnel time, space and materials, than they have been worth in educational or administrative communications gains? We have no formula-answer to this question, but on balance we suspect that the point of negative returns has either been passed or has about been reached. These are the causes of our suspicion:

1. In six colleges for whom we have recently made similar studies, the volume of copying and duplicating averaged about 1.4 million copies per thousand students (full-time). William and Mary is considerably above this average.
2. William and Mary has been far more generous in providing excellently-equipped, decentralized copy centers to almost any department wishing to have one.\*\*\*

In brief, William and Mary has invested, or is investing by means of rentals, in equipment, as well as space, for copying and duplicating to a level well above what we observe elsewhere. (Of course, the higher level of convenience that all of this equipment and space offer does cut certain unmeasured but real staff and faculty costs of making copies, such as travel and delay time costs; on the other hand, too easy access can lead to overuse in making copies of little intrinsic value.)\*

3. The method by which departments are charged for decentralized copying and duplicating encourages overuse.\*\*\*
4. Once purchased or rented, departmental equipment is, still, typically very much underutilized. For example, only five out of 40 mimeograph and ditto machines produce more than 120,000 copies a year, and only one produces more than 360,000. (We know of centralized machines that produce a million.) Only 12 out of 22 Xerox machines produce the minimum annual copies for which Xerox charges anyway. Finally, only four out of 25 coated paper copiers produce even as little as 36,000 copies per year. (Most of these units can readily produce 60-90,000 copies annually.)\*

### Recommendations

There is certainly some indirect evidence that the volume of overall copying and duplicating at William and Mary is above an optimum quantity. But more important, it appears quite certain that far too many resources have been devoted to copying and duplicating facilities, and perhaps indirect (i.e., non-chargeable) labor. What has occurred, under the current system of economic management, is that individual departments have each sought to economize their own facilities in a way that was rational for them; what has been overlooked is that the College as a whole has lost heavily therefore.\*\*\*

Here our recommendations are directed to control over these volumes and over decentralized resources employed:

1. Continue, indefinitely, an absolute moratorium on any further acquisition of copying or duplicating equipment by all departments, whether by purchase or lease-rental, and including a moratorium on upgrading.
2. Reverse the policy of permitting each department to have its own copy center, or if not copy center then independent copier or duplicator equipment.
3. Reduce the number of copy centers to one per building, and equip them with the best machines presently owned.
4. Recapture surplus space for other uses, and recapture owned, surplus copying and duplicating units for a back-up inventory or surplus disposal.
5. Avoid equipping copy centers or independent copier locations with Xerox units, except, if at all, for well-justified plain-paper needs. Remove all, or most, Xerox units.
6. Create one central budget for the purchase of new equipment, maintenance service, Xerox or other rentals, and copier supplies including paper. Charge these expenditures to departments as follows:
  - a. For mimeo and spirit equipment expenditures, a flat annual charge per machine, prorated appropriately where use is shared.
  - b. For copiers, an all-inclusive price per copy, uniform for all users by type of unit. Department budgets will therefore contain an item to limit the number of copies annually, rather than as at present an item for direct expenditures on equipment and supplies.
7. We believe that steps such as those suggested above will contribute to stabilizing, at least, the volume of campus copying and duplicating. (A bulletin disapproving the use of machine copies in place of carbon copies might make a minor contribution also.)

### FACILITIES AND SERVICE

It is immediately apparent from (analysis of) costs that the College is spending very heavily to perform duplicating on copying machines, and on Xerox units especially. The most costly duplicating (micro blow-back aside) occurs on decentralized Xerox units, followed by the central Xerox 7000, and then by the coated paper units. It should be noted that runs up to several hundred per original are common on these copiers and especially explain why so much of total copier volume is in the duplicating range, as we define it or as it might be re-defined with a higher dividing point from what is simply convenience copying.

It is also apparent that mimeo and spirit duplicating are the least costly in direct terms (although some adjustment should be made for direct service costs). However, neither of these systems can give anywhere near the quick first copy from an original that copier technology allows; with spirit, a master needs to be typed, and that is a slow process, and then it must be mounted by hand on the machine. With mimeo, a master must be copied from the original on a slow master cutting device, or typed, and then mounted by hand. And so these systems are both substantially obsolete; they remain in use where labor is not a direct cost and equipment economy is required. They are better justified for reasonably long runs, if one considers the real cost of making the stencil or master, even on a cutter. (It must also be noted that the unit costs above for mimeo and spirit, and for decentralized copiers of course, exclude the major real cost of labor.)

Offset has evolved in the past five years or so to become the most efficient of all duplicating systems, for runs of only a few copies to runs of several thousand or more. The new offset duplicating systems consist of (1) a copier that accepts typed or other plain originals and turns out 10 or more masters per minute and sends them automatically to (2) an automated offset press that mounts the master, runs duplicates at 150 or more a minute, ejects the master when the run is complete and passes to the next one, all the while (3) copies are being sorted at press speed into sets automatically.

A system of this type can produce 3,500,000 copies or more annually. If desired it can be equipped to make both size-for-size and reduced-size masters, for example to accommodate computer printout. The press can print a sheet 11x17. The sorter can make 100 sets, ordinarily; for longer runs, off-line collating occurs, or the system is run in 100-set lots. (This can be done economically because the additional masters are so low cost.)\*

### Recommendations

1. We recommend that the College establish an offset copy service for the campus, located in James Blair, first floor. There are only two suppliers of the automated system proposed, A. B. Dick and Addressograph-Multigraph.\*\*\*

## Index of Official Memoranda Academic Year 1972-73

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# Office of Development

## Fulbright-Hays Program

Forms for graduate study abroad 1974-75 are now available. Fulbright-Hays Grants are "reserved for advanced graduate students who, in most cases, will be engaged in research for the doctoral dissertation." Awards are also available to other "graduate students, graduating seniors, and candidates who wish to further their careers in the creative and performing arts."

Fulbright-Hays Full Grants provide transportation, tuition, books and maintenance for one academic year in one country. Language or orientation course may be available as required.

Travel Grants are available for round-trip transportation to selected countries only. Grants may supplement maintenance awards that do not exceed \$2,500 for single students or \$3,500 for students with accompanying adult dependents if the maintenance awards do not specifically provide for national travel. Travel grants include health and accident insurance and the cost of an orientation course abroad, if applicable.

Foreign Grants may, in some cases, be supplemented by Fulbright-Hays Travel Grants. They may not be held concurrently with Full Grants.

Special Programs. Travel Grants may, on occasion, be available for special programs of direct exchange between American and foreign universities.

Eligibility requirements include: United States citizenship; a B.A. degree (or equivalent), but not a doctoral degree; practical language proficiency, good health; and, for the most part, a U.S. education. Final applications from students-at-large must be submitted by November 1, 1973. Requests for applications will not be honored after October 15, 1973. Applications available from Institute of International Education, 809 United Nations Plaza, New York, New York 10017.

## Environmental Protection Agency Fellowships

The EPA will accept applications for fellowships from individuals planning careers as pollution abatement workers in government agencies.

Individuals who are currently employed in environmental agencies and hold an undergraduate degree, or equivalent, in a related field, may be eligible for one-year full-time singular assistance or three-year part-time assistance. Full-time fellowships provide for the full cost of tuition, up to \$6,500, and a book allowance of \$250. No allowance is made for travel or dependents. Applicants must intend to return to the agency and have employer approval for the program. In professional fields other than science and engineering a Master's Degree is required.

Individuals who are interested in training for a career in a pollution control agency but who are not currently so employed may be eligible for full tuition costs and a book allowance of \$250, plus a stipend of \$3,600; no travel or dependents.

Applicants may choose any accredited institution that offers appropriate course work. EPA encourages preliminary discussion before application is made. Applications are due August 1 for mid-term enrollment; March 1 for fall 1974 enrollment. Forms from: Grants Administration Division; Environmental Protection Agency, Washington, D.C. 20460; Attention: Grants Information Branch. Information From: Manpower Development Staff; Control Programs Development Division; Office of Air Quality Planning and Standards; Environmental Protection Agency; Research Triangle Park, North Carolina 27711.

## Youthgrants - National Endowment for the Humanities

Applications are due July 31, 1973. The program, which is essentially the same as last year, is designed to "support humanities projects developed and conducted by students and other young people." Awards are normally under \$5,000 but may be as high as \$10,000. Forms to: Youthgrants in the Humanities; National Endowment for the Humanities; Washington, D.C. 20506.

## Technology Incentives Program

An initial allocation of \$7 million has been granted to the National Bureau of Standards (NBS) for the Experimental Technology Incentives Program (ETIP). The purpose of the program is to "obtain knowledge and experience concerning technological invention and innovation in the U.S.A. and to determine what cost-effective actions the Federal Government can take to increase the rate at which new technologies are successfully introduced to the marketplace." Particular interest is expressed in the following areas:

New approaches to government procurement practices as an incentive to technological invention and innovation.

Use of federal regulatory power to stimulate technological invention and innovation.

Special provisions to assist lone inventors and small R & D firms to stimulate technological invention and innovation.

Consideration will also be given to studies that offer an improved basis for future policy studies.

Additional funding has been requested in the fiscal 1974 budget. Inquiries on ETIP to: Director, Experimental Technology Incentives Program; National Bureau of Standards; Administration Building, Room A-724; Washington, D.C. 20234.

## "Decision Making" Course-MIT

MIT plans to offer a program under the title, Decision Making Under Uncertainty: Concepts and Application of Decision Analysis, during the summer session. Prof. A. W. Drake and Prof. R. L. Keeney will be the instructors. The program will meet August 20-31. Information from: Director of Summer Session, Room E19-356; Massachusetts Institute of Technology; Cambridge, Mass. 02139.

## New US-USSR Accords Include an Expansion of Cultural Exchanges

Following are agreements specifically including college and university faculty and students between Jan. 1, 1974 and Dec. 31, 1976, together with information supplied by the U.S. Department of State concerning their implementation:

1. The parties agree to provide for exchange annually from each side of:
  - a. At least 40 graduate students, young researchers and instructors for study and postgraduate research in the natural sciences, technical sciences, humanities and social sciences, for periods of stay from one semester up to one academic year, including five-week courses before the beginning of the academic year to improve the participant's competence in the Russian or English language;
  - b. At least 30 language teachers to participate in summer courses of 10 weeks to improve their competence in the Russian or English language;
  - c. At least 10 professors and instructors of universities and other institutions of higher learning to conduct scholarly research for periods of stay between three and six months, the total volume of these exchanges not to exceed 50 man-months for each side.
2. The parties agree to provide for exchanges of professors and specialists from universities and other institutions of higher learning, in accordance with the desires of the receiving side, for periods of from one semester up to one academic year, to offer instruction and to lecture at universities and other institutions of higher learning in the fields of:
  - a. The natural sciences, technical sciences, humanities and social sciences; and
  - b. Language, literature and linguistics.
3. The parties agree to facilitate the conducting of bilateral seminars of United States and Soviet specialists in education: 12 participants from each side for a period of two to four weeks on subjects to be agreed upon subsequently. During the period of this program, four seminars will be conducted in each country, two in subjects bearing on higher education and two in subjects bearing on primary and secondary education.
4. The United States will take measures to encourage the study of the Russian language in the United States in accordance with the joint United States-Soviet communique of May 29, 1972.

The State Department said that sections 1a, b, and c above will be administered on the U.S. side by the International Research and Exchanges Board (IREX) in New York. 2a and b will be administered by the State Department's Bureau of Educational and Cultural Affairs. Administration of the other paragraphs on the American side generally will be under the supervision of the State Department.

IREX, located at 110 East 59th Street, New York, N.Y. 10022, is a private organization which receives support from private and Federal sources.

## National Science Foundation - Research Applied to National Needs

Office of Exploratory Research and Problem Assessment: The purpose of this office is to support research on emerging or existing problems of national significance which are premature or otherwise inappropriate for attention under the programs of the three major divisions of RANN. The following five areas are emphasized: Technology Assessment, Technology and the Economy, Human Needs, Alternative Futures and Institutional Change, Other Societal Problems.

For further information, call Mrs. Neiman, Ext. 519.

### Dr. George J. Oliver

Dr. George J. Oliver, whose death occurred recently, was an educator of vision whose constructive achievements as the first president of Richmond Professional Institute were noteworthy and lasting. He was also a teacher who inspired his students, and he had a personality that endeared him to his friends.

Dr. Oliver carried RPI to new heights of usefulness when he became provost, as successor to its founder, Dr. H. H. Hibbs, and then president. In eight years, under his leadership, the full-time faculty more than doubled, the physical plant was vastly enlarged and improved, the number of full and part-time enrollees increased 100 per cent, and became the largest in Virginia. Furthermore, many new courses were added and the quality of instruction was upgraded.

RPI was for many years the "red-headed stepchild" among Virginia's state-supported educational institutions, and the ability of Dr. Hibbs and Dr. Oliver to function at all with such meagre financing was almost a miracle.

Nobody realized the unavoidable shortcomings of RPI more fully than Dr. Oliver. But he considered the presidency a challenge to greater things, and an opportunity to provide schooling for thousands of youngsters and oldsters to whom no other such avenue was open.

One of the great advances under his leadership was the establishment of the summer school, as an addition to the evening school founded by Dr. Hibbs. Dr. Oliver had been head of the summer school at the College of William and Mary, and when he came to RPI, he laid down the guidelines for a summer school for that institution. In combination with the evening school it has now developed into by far the largest summer and evening school in this part of the United States, with no

fewer than 15,000 separate individuals enrolled.

It is altogether fitting that the projected education building at Virginia Commonwealth University has been named for Dr. Oliver. The combination of RPI and the Medical College of Virginia to form VCU occurred not long after he retired as president of RPI in 1967.

George Oliver was a well-rounded man, who loved companionship, was fond of fishing and golf, and enjoyed watching competitive sports. He was also an avid reader.

He had sympathy and understanding for the student who was having problems and who was trying to "find himself." He considered it an important part of his role to counsel with such young men and women.

He had a quiet and delightful sense of humor. One of his favorite stories came from his early years as a public school principal.

A diminutive enrollee in the first grade, named David, was standing around, and thinking to be friendly, Principal Oliver patted him on the shoulder and said:

"Well, young man, do you know your ABCs?"

"Hell, no!" responded the six-year-old with some asperity, "I ain't been here hardly five minutes."

Dr. Oliver liked to relate that episode, not only because of its humorous aspects but also because it seemed to illustrate the need for each of us to feel that we have "hardly been here five minutes," and that there is forever more to learn.

George Oliver was always learning, always seeking wider horizons. His services to education and to humanity will not be forgotten.

—Virginus Dabney

★★★

George J. Oliver, a retired member of the William and Mary faculty, died at the Williamsburg Community Hospital on June 15.

Mr. Oliver, '31, came to the College in 1945 as professor of education from the Virginia State Department of Education where he served from 1938 to 1945 as Superintendent of Secondary Education. From 1945 until 1959 he served as chairman of the Department of Education. He also served as director of the Summer Sessions, coordinator of divisional activities, and director of extension.

Mr. Oliver was President of Richmond Professional Institute (now Virginia Commonwealth University) from 1959-1967. He returned to William and Mary for the 1967-68 academic year as part-time lecturer in education, the post from which he retired.

He is survived by his wife, Clara Bell Oliver; a son, Dr. George J. Oliver, Jr., of Williamsburg; two sisters and three grandchildren.



George J. Oliver

Research related to the structure of nuclei and the nature of metals being undertaken by physicists at the College has received special attention recently and two researchers have received a grant to further their work from the National Science Foundation.

The current issue of *Science News*, a weekly summary of important developments in science throughout the world, describes research at the College on "Precession of Positive Muons in Nickel and Iron," and its potential importance in technological applications.

The research is being conducted by William J. Kossler, associate professor of physics; postdoctoral research associate Neil Heiman, and a graduate student, Grayson Foy, of Richmond, all from the College; and Gary E. Stronach, a member of the faculty at Virginia State College, Petersburg, as well as a doctoral student at William and Mary.

Muons are elementary particles which are produced as byproducts when fast protons are allowed to collide with matter. The muons are guided into samples of Nickel and Iron where they stop and decay. Careful study of the directions in which the decay fragments come out of the targets yields evidence about the interior of the metal. In particular, the strong magnetic fields inside the metal can be measured. This quantity is very difficult to measure by other means.

The article in *Science News* mentions the fact that since muons behave very much like hydrogen, the technique will be important in deciphering the physical and chemical behavior of hydrogen in metals. Hydrogen

is one of the substances responsible for making metals brittle. Understanding this embrittlement is obviously an important goal of metallurgy.

The protons which are originally used to produce muons come from the cyclotron of the Space Radiation Effects Laboratory (SREL) operated for NASA by William and Mary. This facility has just been given a grant of \$261,000 from the National Science Foundation which will enable it to operate for at least another year. Mr. Kossler and his collaborators plan extensive experiments, together with physicists from Yale and Bell Telephone Laboratories, at SREL during the coming year in order to further the new technique.

Other research with muons is planned by Robert T. Siegel, director of SREL, and Robert E. Welsh, both professors at the College.

They have received a grant (separate from the SREL grant) of \$72,600 for the period beginning July 1 through December 31, 1974 from the National Science Foundation. The work they will do involves muons with a negative electric charge in contrast to those used by Mr. Kossler which are positive.

Negative muons crash into the positive nuclei of the targets they are aimed at and induce various changes in the nuclei. Such changes can be experimentally detected and compared to theories of the behavior of nuclei. Negative muons are thus used as probes for studying the structure of nuclei, while positive muons probe the nature of metals.

## Personnel Bulletin

### Job Openings

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-Stenographer C

Clerk-Typist C

Supply Buyer in College Bookstore: Minimum of two years college store buying experience required. Will be responsible for buying all non-book merchandise, merchandising, inventory control and supervision of assigned clerks for department producing \$175,000 in annual sales.

Shipping and Receiving Clerk

### Independence Day

In accordance with the holiday schedule as revised by the 1970 General Assembly, Independence Day falls on Wednesday, July 4, 1973.

This holiday should be given, as far as practicable, to members of each department. It is recognized that certain services must be maintained in the various departments, but these services should be furnished on the holiday by a minimum number of employees. The responsibility for determining the number of employees rests with the department head. It is not a decision to be made by the employees of the department.

A leave slip should be submitted to the Personnel Office for any permanent classified employee who takes leave on this holiday. Permanent classified employees who are required to work on this holiday should take the compensatory leave earned as soon thereafter as possible in order to avoid leave accumulation. Hourly employees who work on this holiday will be paid at their regular hourly rates.

# THE CALENDAR

THURSDAY, JULY 12

TUESDAY, JULY 3

no activities scheduled

WEDNESDAY, JULY 4

CW: Special Independence Day Militia Muster: Market Square Green, 10 a.m. Lecture: "The American Revolution: Ideas and Action," Gregory Stiverson of CW, Williamsburg Conference Center, 8 p.m.

THURSDAY, JULY 5

no activities scheduled

FRIDAY, JULY 6

Band School Concert (Jr. Div.): Wren Yard, 6:30 p.m.  
Band School Movie: CC, Ballroom, 8 p.m.

SATURDAY, JULY 7

Organ Recital: Wren Chapel, 11 a.m.  
Band School Movie: CC, Ballroom, 7 p.m.

SUNDAY, JULY 8

Band School Concert (Jr. Div.): Wren Yard, 2:15 p.m.  
Band School Movie: CC, Ballroom, 7 p.m.  
Concert by the choir of "The Common Glory": PBK, 8:30 p.m.  
Silver donation.

MONDAY, JULY 9—TUESDAY, JULY 10

no activities scheduled

WEDNESDAY, JULY 11

School of Education Phi Delta Kappa Lecture: Mr. Graham Bond, CC, Theatre, 2 p.m.

Band School Solo and Ensemble Recital: CC, Ballroom, 8:30 p.m.

FRIDAY, JULY 13

Band School Concert (Jr. Div.): Wren Yard, 6:30 p.m.

SATURDAY, JULY 14

Organ Recital: Wren Chapel, 11 a.m.

SUNDAY, JULY 15

Shakespearean Players: "Katharine and Petruchio," David Garrick's adaptation of Shakespeare's "Taming of the Shrew," "The Common Glory" amphitheatre (rain PBK), 8:30 p.m.  
Silver Donation.

MONDAY, JULY 16—THURSDAY, JULY 19

no activities scheduled

FRIDAY, JULY 20

End of the first term of the Summer Session

SATURDAY, JULY 21

Organ Recital: Wren Chapel, 11 a.m.

SUNDAY, JULY 22

Concert by the choir of "The Common Glory": PBK, 8:30 p.m.  
Silver donation.

MONDAY, JULY 23

Beginning of the second term of the Summer Session

## Summer Sessions Announcements

Reminder! August graduates should file an intent to graduate form, which can be secured at the Registrar's Office in James Blair Hall.

A limited number of graduation invitations have been ordered by the College Bookstore. Interested persons should check with the Bookstore.

Reminder! All classes will meet on Wednesday, July 4.

Adair Pool is open 2-7 p.m. daily and Blow Gym, with all recreation equipment, is open Monday-Thursday from 1-10 p.m. and Friday-Sunday from 1-8 p.m.

The Commons is open from 7 a.m.-7:30 p.m. daily, except on Saturday and Sunday, during which time the Wigwam is open. A Smorgasbord is held at the Commons each Wednesday night.

The Student Health Service requests that all Summer Sessions students bring their receipts for their tuition, including the \$5 registration fee, when they come to the infirmary for treatment. This receipt should be shown to the nurse on duty so that she will know the student is entitled to treatment. The cooperation of students in this matter will be much appreciated by the staff.

Language House Vacancies

There are three vacancies for girls in the French Language House for next year. Students must have the equivalent of French 202 (four semester proficiency).

For more information please contact Paul Clouter, assistant professor of modern languages, 208 Washington Hall, Ext. 295 or at home, 220-0021.

## Classified Advertisements

### For Sale

7.5 H.P. Outboard Motor with 3 gal. tank. Sears 1972 model. \$99. Call 229-0005.

3 piece modern bedroom set; queen size bed w/headboard; 2 bureaus w/mirror. \$150. 229-2581.

1969 Chevrolet Station Wagon. Excellent condition. A/C, P/S, #11 Inspection Sticker. 54,000 miles. Call Pat Gentry at 877-2458 after 5:30 p.m. weekdays.

'62 Cadillac, 4 dr, air conditioned and full power, good tires, inspected and in excellent mechanical condition. \$375. Call 229-4461.

Sears Electric Range - Classic Style with storage base. \$125. 220-1645.

1958 Chevrolet, gold, convertible. Excellent condition with 5 good street tires and 4 14 x 11 dune buggy tires on double rims. \$500. Call 229-4461.

10-speed bicycle, excellent condition, \$60. 229-0074.

100 W. Kingswood Dr. - A.C., 3 BR, 2 baths, brick rancher, 2/3 acre wooded corner lot. Slate foyer, LR, DR, large FR w/fp, kit. with self-cleaning range and dishwasher, 2-1/2 car garage. By owner, 229-7335.

2 Schwinn - Boy's Spider Bikes; 3 speed, excellent condition, 1 blue, 1 gold, \$40 each, were \$80. 1 Sears Girl's Spider Bike, green, \$30. 229-7266.

Gloucester Point - Traditional 2 story home, brick and wood. Living room, dining room, eat-in kitchen, 4 bedrooms, 1-1/2 baths, garage. 1 mile to bridge and beach, 13 miles to campus. \$32,500 - owner, 642-5101 after 1 p.m.

### Wanted

An apartment. Willing to share expenses. Prefer close to College. Lee Krottseng, 19 Greenwood Road, Pittsburgh, Pa. 15331. Call collect, 412-371-9748.

New faculty member wants to rent 3-4 BR house or large apartment beginning August 1. Please contact Gene Edelman, 3106 Blackberry Lane, Columbia, Mo. 65201.

A nice home and family that could spare one BR for needy W&M student for 1973-4-5 academic years. Drop a line to: Chi Tran, c/o News Office, William and Mary, Williamsburg, 23185.

College of William and Mary  
Williamsburg, Virginia 23185

If you would like to share the drive from Hampton each day in time for an eleven-twenty class, call Virginia Coles 851-1943.

### For Rent

Furnished one-bedroom apartment, easy walking distance from campus. \$125/month plus electricity. Call 229-1023, during office hours, Monday through Saturday.

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