

THE NICHE

The Student -Faculty Newsletter of The Department of Biology
The College of William & Mary

Volume 3,

Number 4

May 3, 1991

Introductory Biology Course To Have New Look in 1992

After more than a year of study, discussion, meetings, and student surveys the Department of Biology Faculty overwhelmingly approved expanding the current Principles of Biology 101 course to two semesters: Molecular, Cellular, and Developmental Biology (MCDB); and Environmental, Population, and Organismal Biology (EPOB).

The new courses with associated laboratories will be required of all majors. If approved by the College's Educational Policy Committee, the new offering will begin in Fall, 1992. The

expanded version is designed to give potential majors a more thorough introduction to Biology.

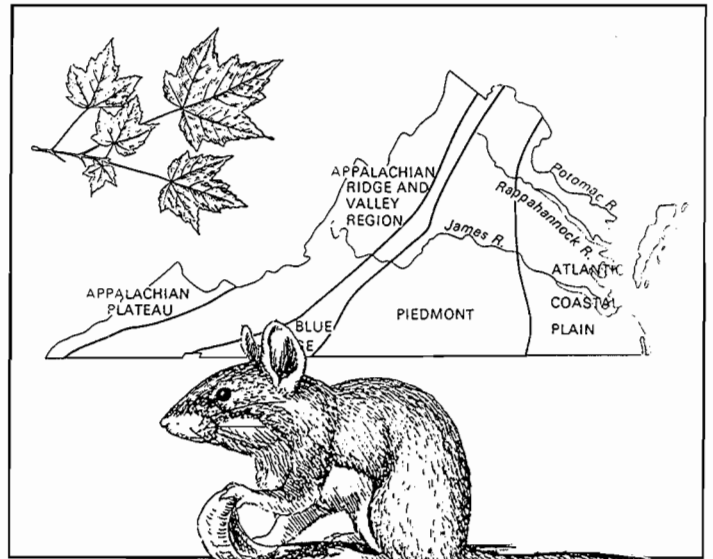
The most significant change may be in the laboratories which will be taught as two-week modules by individual faculty members. Each laboratory experience will emphasize techniques as well as facts and ideas. MCDB labs will include Measurement, Microscopy, Cell Division, Tissue Culture, Enzymes, and Molecular Biology. EPOB will include Organisms and Ecology, Genetics, and Evolution. (continued page 2, NEW 101)

Ken Callicott, Wendy Taylor Win Prestigious Fellowships

Two Biology graduating seniors have won the most prestigious awards available for doctoral studies in science in this country. These full-support awards are given directly to students to enable them to attend any graduate school they wish.

Ken Callicott was awarded a Howard Hughes Medical Institute Predoctoral Fellowship in the Biological Sciences. Only 69 were awarded from an applicant pool of 1,432 of the nation's top Biology students. Ken will begin Ph.D. work in Biology at Stanford this Fall. He received Highest Honors in Biology for research done in Dr. Mangum's laboratory this year.

Wendy Taylor received a similar full-support award from the National Science Foundation. She will begin work at Duke in the Department of Microbiology and Immunology and in the Program in Cell and Molecular Biology. She was just awarded High Honors in Biology for work with Dr. Greg Phillips.



Seven Seniors Graduate with Biology Honors

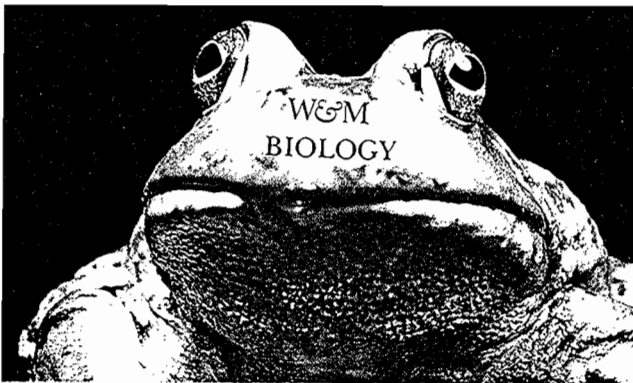
Seven seniors completed thesis defenses and were awarded Honors in Biology:

Kiran Bambha received High Honors for work with Dr. Mathes. Her thesis title is "The Influence of Selected Antioxidants on the Production of Adventitious Tomato (*Lycopersicon esculentum*) roots."

Highest Honors went to Ken Callicott's study, "Phenotypic Variability and Plasticity in the Hemocyanin of the Sand Fiddler Crab, *Uca pugilator*." Ken worked in Dr. Mangum's laboratory.

Elizabeth Crone, studying with Dr. S. Ware, received High Honors for her work, "Forest Composition, Environmental Variables and Land Use History in the Northern Neck of Virginia."

"Serum Corticosterone, Adrenal Weights, and Reproductive Organ Weights in Response to the Criterion of Dominant vs. Subordinate in Male *Peromyscus maniculatus bairdii*" was Steve Crossman's thesis title. He received High Honors for his work with Drs. Bradley and Terman. (cont. page 2, HONORS)



Three New Phi Beta Kappa Members

Congratulations to three more seniors elected to Phi Beta Kappa this Spring: Elizabeth Crone, Steven Crossman, and Pamela Entress. In Fall semester, seven Biology majors were selected for membership.

HONORS (continued from page 1)

Dawn Field worked in Dr. Joe Scott's laboratory. Her "Study of the Ultrastructural Features of Mitosis in the Coralline Red Alga *Bossiella orbignians* as a Possible Taxonomic Criterion" was awarded High Honors.

Wendy Taylor received High Honors for her "Construction of an Inducible Expression System for the *Escherichia coli* Gene *ffh*," done with Dr. Phillips.

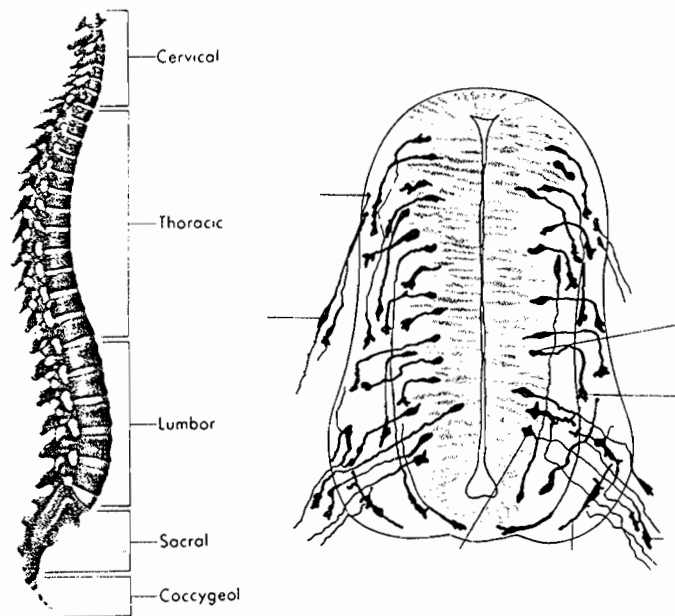
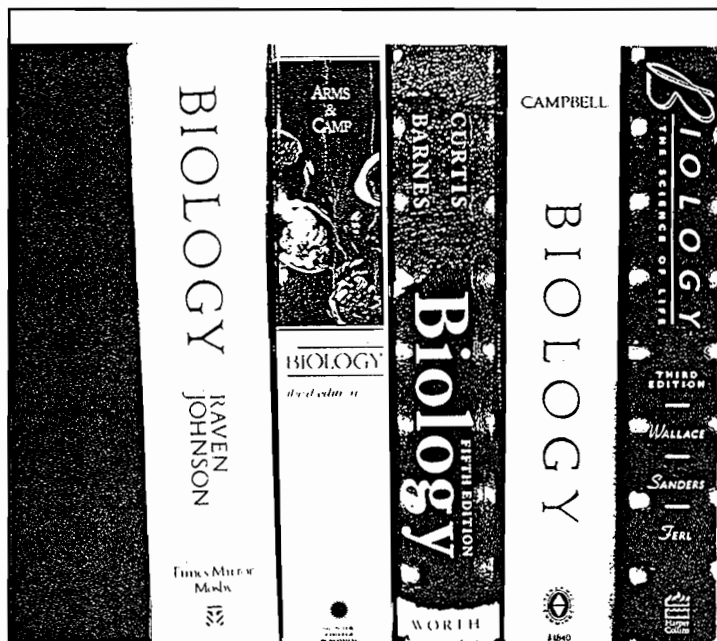
Thomas Umbach's work with Dr. Coursen, "Analysis of Whole-Cell Extracts from Light-Induced Sporulated Mycelia of *Aspergillus ornatus* (Raper), Using SDS-PAGE," received Honors.

Congratulations to all of these students for a year of hard work and discovery. Rising seniors interested in doing Honors research next year should see Dr. Black, Chair of the Department's Honors and Undergraduate Research Committee, as soon as possible.

NEW 101 (continued from page 1)

Continuing departmental discussion will shape the rest of the curriculum for majors. The Department has also approved developing a new one-year course(s) for non-majors. The details of this new offering are still being fashioned, but it should allow non-majors and potential majors to begin their study of Biology with separate courses. Currently non-majors must first take Principles of Biology 101 along with majors before they can take non-majors Human Biology 103.

Biology is the most diverse and fastest changing discipline at the College (and everywhere). These curricular revisions are designed to give our majors a more thorough introduction to college-level Biology while opening up choices at advanced levels, and also to encourage non-majors to take courses in Biology by offering them more courses they may find interesting. The Department believes that all students enrolled at a liberal arts and sciences university like William and Mary should be exposed to coursework in life sciences. No one will be able to lead a life in the future which is not touched by the Biological Sciences.



Llanso-Sherman Research Scholarship Awarded to Nicholas DiProspero

Nicholas DiProspero, rising senior, was awarded the 1991 Llanso-Sherman Research Scholarship. The scholarship, established in 1986 by Peter Neufeld '58, is intended to assist a student at the College with an interest in going on to do medical research after graduation.

DiProspero will work this summer with Professor Lloyd Guth on spinal cord regeneration in rats. His long-term goal is to obtain a Ph.D. in immunology and to begin a research and teaching career at the graduate or medical school level.

THE NICHE Is Looking for Reporters, Writers, and Other Helpers for Next Year

THE NICHE begins its fourth year of publication next year, and hopes to go from four to six issues. Mailed to all declared Biology majors, Biology faculty and graduate students, and over two hundred alumni (and distributed to interested students and others on campus), each issue numbers about 600 copies.

Publication is a cooperative venture between the Department Chair's Office and the Biology Club. This year's co-editors are rising senior Lisa Jones and rising junior Sally Hunsucker. We invite interested students to let us know if they're interested in writing for us next year. We also invite alumni contributions.

THE NICHE

The Student-Faculty Newsletter of The Department of Biology
The College of William & Mary

Published by the Department of Biology and Biology Club
Co-editors: Sally Hunsucker and Lisa Jones

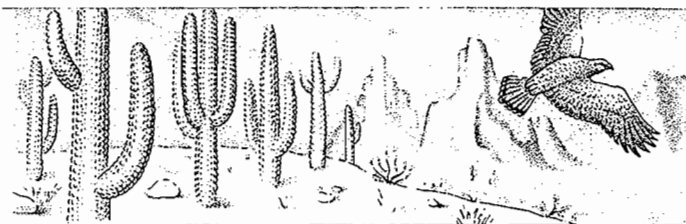
Reading Room's Mystery Woman Revealed

by Sally Hunsucker

When you look at the portrait of the woman in the Biology department library and try to think of a name, does your mind draw a Blank? Well, you're not alone. In fact, some perplexed person finally put a note up that reads "Just who exactly is this woman?" The responses include: "Mrs. Millington," "The Mona Lisa of the biology department," "Betty Crocker?," "Clearly the woman from the Depend undergarments ads," "Fran Verkuil's twin sister," "A poor relation to the Zables - all she got was a library and no plaque," "Wiseman's wife?," "Curious late night biology studier," and others.

Well, someone did finally figure it out. "Grace Blank, perhaps?" Grace Blank was the professor of microbiology from 1931 to 1965. Sorry, she was not related to the Zables, but she does have a plaque --only it's on the second floor in front of room 203, the microbiology lab dedicated to her. She was a registered nurse, and, with a few local doctors, started the first infirmary on campus where the Reves center is now located. Professor Blank often bought materials for the microbiology labs herself to insure that students would have enough supplies. She was always interested in the practical medical applications of microbiology. One of her labs, in fact, involved injecting oranges to teach students how to use needles!

Professor Blank also helped arrange loans from doctors for beginning medical students at a time when little scholarship money was available. This leads one to the conclusion that someone else might have guessed correctly the identity of the woman in the portrait. With her contributions to the Biology department and the campus, Grace Blank could really have been called "Mrs. Millington."



Howard Hughes Medical Institute

Highlights W&M Biological Sciences Program

The Department and College are concluding the second of five years on a \$1-million grant awarded us by the Howard Hughes Medical Institute for Undergraduate Biological Sciences Education. The award has allowed us to hire two new faculty --Dr. Patty Kane, a biochemist, and Dr. Greg Phillips, a molecular biologist-- and to support student summer research, lecture series, high school outreach programs, and the like.



The Medical Institute's latest Annual Report highlights our Program as one of twelve programs (of about 100 in the country supported by the Institute) of particular interest and quality. Singled out for special praise in the report is our effort to build a bridge between the study of Biology and the study of Chemistry. In the area of natural overlap between the two

Departments --Biochemistry and Molecular Biology-- we expect to continue and expand our cooperative efforts. The possibility of a biochemistry track for undergraduates is being discussed.

New Phi Sigma Biology Honor Society Members Inducted

Thirty-three new members were initiated into the Alpha Zeta Chapter of Phi Sigma, the National Biology Honor Society. In a brief address to the new members, Department Chair Lawrence Wiseman challenged the group to become more active in promoting undergraduate research in the Department. "It isn't enough to be honored in this way, you should become involved in the Department." Wiseman offered the group \$500 from money raised to support undergraduate research to come up with "new ideas to encourage undergraduate research in Biology." After the induction ceremony, the new members elected officers for 1991-92: President, Scott Madar; Co-Vice Presidents, Heather Ferguson and Kim Pieslak; Secretary, Gina Adrales; and Treasurer, Thu Le.

Phi Sigma's new members are Gina Lynn Adrales, Sarah Caroline Blackstock, John Whitfield Briggs, Brandon McPherson Brooks, Kelly O'Harra Browne, Kimberly Leann Cathey, Catherine Grace Clayton, Heather Aglaia Ferguson, Dawn Field, Lauren Christine Garner, Ryan Douglass Herrington, Jennifer Leigh Hollar, Ellen M. Huminski, Marion Lisa Jones, Elsa

Kuo, Thu Quynh Le, Rebecca Fontaine Lynch, Scott Anthony Madar, Christopher Lance Massengill, Jennifer Forrest Meekins, Scott Robert Miller, Mohamed Ahmed Noor, Elizabeth Lynn Peterson, Kimberly Joan Pieslak, Francis Joseph Probst, III, Andrea Laine Robertson, Stephen Christopher Rottenborn, Stephanie Denise Silverman, Stephen F. Stanziale, Meenu Talwar, Thomas Walter Umbach, Elizabeth Ann Wolff, and Diana Marie Zombek.

Phi Sigma Society



Devoted to the Promotion of Research in the Biological Sciences

Members are invited to join the society based upon a minimum grade point average in biology courses. To find out more, please contact the officers for more information. Dr. Mathes is the faculty adviser for the group.

TOP TEN LIST

So you're stuck here all year? Never fear! We've got the Top Ten Ways To Survive The Summer In Williamsburg:

- 10. Cool off by taking a swim in Crim Dell or Lake Matoaka
- 9. Get an apartment WITH air conditioning
- 8. Teach the Verkuil's whippet to fetch
- 7. Plant flowers in the Sunken Gardens
- 6. 19 meal plan . . . at the Deli's
- 5. Strike up a friendship with one of Prof. Fashing's giant hissing roaches.
- 4. Travel to Italy, France, Germany . . . and enjoy your day at Busch Gardens, the old country
- 3. Try to get the parking lot in front of Zable Stadium named after you (Hint: \$\$\$\$\$\$)
- 2. Actively prevent the building of the new Campus Center by lying down in front of the bulldozer, Arthur Dent style
- 1. Call up Aspen and say "Sorry, I'm busy,

Letters to THE NICHE

Please address your questions, comments, and suggestions to **THE NICHE**, Biology Department (Williamsburg, VA 23185) --or drop them off at our mailbox in Millington Room 118.

How does one get involved in the "Research in Biology" program? *Students interested in doing research in Biology should talk with faculty who are active in research. There are a number of ways to do research: Research in Biology 403, Honors 495-496, summer Howard Hughes Medical Institute Fellowships in Molecular Biology, and informal arrangements in various laboratories. Professor Wiseman, Chair of the Department, and Professor Black, Chair of the Department's Committee on Honors and Undergraduate Research, can give you information on what different faculty members are doing. For those faculty members who are doing things of interest to you, ask them for recent reprints of scientific publications to give you an idea of the kinds of things they are working on now.*

What are the new bulletin boards for? *They will be used to display current faculty and student publications, and to show "posters" that Department members have prepared for scientific meetings.*

Can I take classes for my Biology major at another university this summer? And what about the Physics classes? *Classes comparable to our own taken at other universities in summer are generally OK for transfer credit. You have to get prior permission from the Department Chair, Professor Wiseman. As for Physics, because it is not required for a Biology major, it is between the student and the Physics Department if transfer credit is desired. However, graduate and professional schools will accept Physics courses from institutions other than the ones from which students graduate, so if you do not need the credits to graduate from W&M, you can take the courses elsewhere and get transcripts from the other institution when you apply for schools or jobs.*

In the course catalog it recommends that Biology majors interested in graduate school study a modern foreign language. Is this really important nowadays? Are some languages more useful for a Biologist than others? *It's true that many graduate schools no longer require foreign languages for advanced study. You should check with those schools you may be interested in attending. In "the old days" most graduate schools required two languages, with German and French (and sometimes Spanish) the most common. Although English is now "the language of science" around the globe, foreign languages may be useful for some kinds of biology, especially when reading older literature. Ask professors in areas of your biological interest what languages, if any, they recommend.*

Why is there a little blue light on top of Millington on the side toward the street? *That's a warning device for the greenhouse. When the temperature inside gets to dangerous levels for the plants, the light/alarm goes off to alert us. The light is toward the street so that if the problem occurs during times when the building is not at full activity, the campus police and other College personnel may see the signal.*

Does a Chicken have lips? What color is a red blood cell? *This will be on your final!*



Invitation to Herbarium Alumni to Backpack with Donna Ware in West Virginia

Adjunct Professor and Herbarium Curator Donna Ware will be backpacking on the Dolly Sods in West Virginia in mid-August with a group of herbarium assistants and other "herbarium-affiliates." If there are other herbarium alumni who would like to join Dr. Ware and the others, give her a call at 804/221-2213.

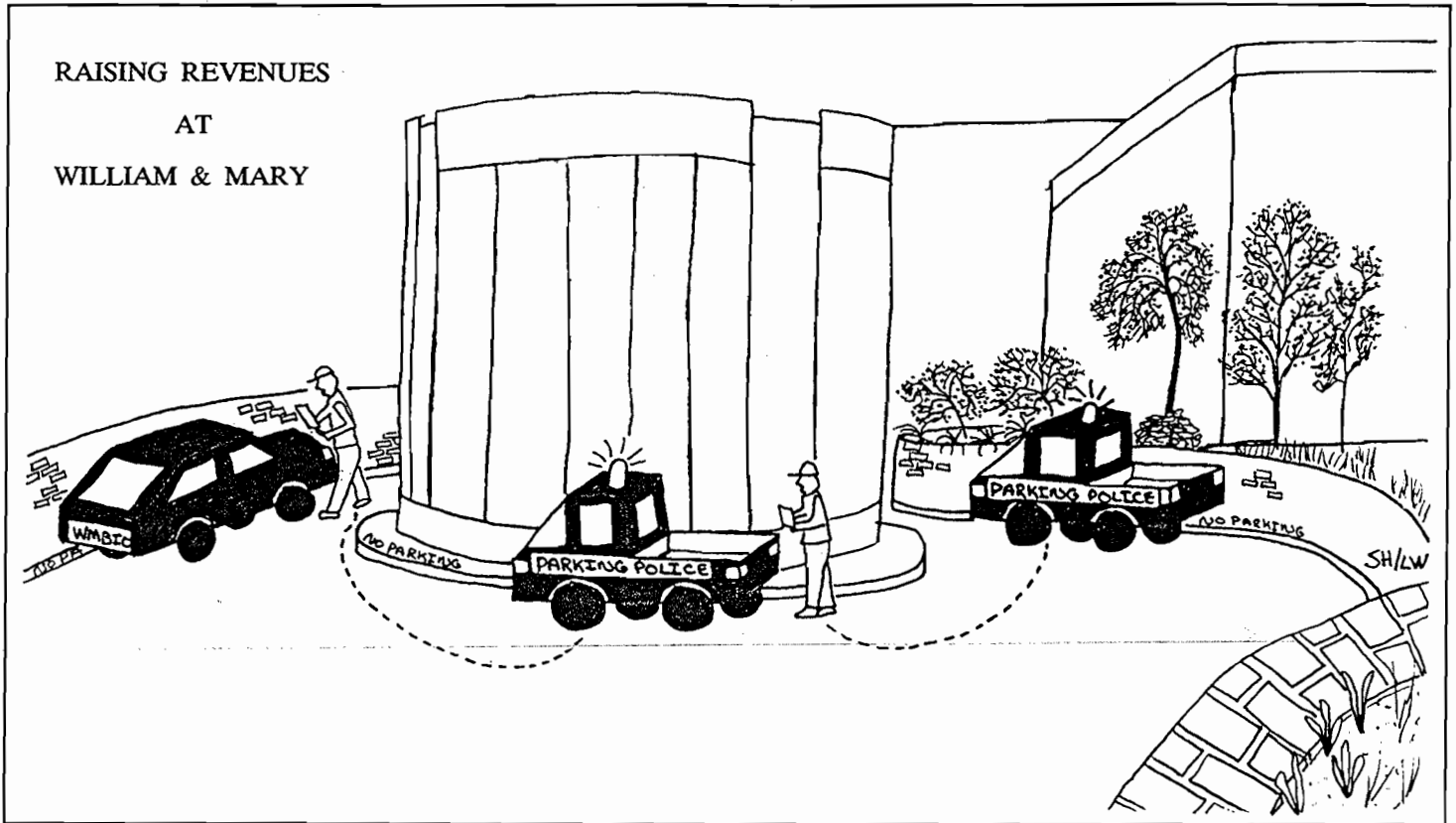
Last year a similar group (including Elizabeth Crone, Virginia Crouch, Brian Nicholson, Greg Plunkett, Vallery Weiss and Chuck Bailey) did a portion of the Foothills Trail on the Southern Blue Ridge Escarpment in North and South Carolina. Among the memorable plants they saw were alder (*Fothergilla major*), yellow fringed orchid (*Habenaria ciliaris*), and Fraser's magnolia.

BIOSPHERE

RAISING REVENUES

AT

WILLIAM & MARY



Jewell Thomas, Electron Microscope Technician Supreme, Heads Department's Recycling

Jewell Thomas began recycling in Millington about 12 years ago, when the vending machines were installed in the basement. She hated to see the cans piling up in the trash cans and dumpster, so she began taking them to Reynolds Aluminum Recycling center. When the Williamsburg Recycling center opened, Jewell started comprehensive recycling in Millington, assuming the full responsibility of taking all the recyclables to the center herself. Once people saw that there was a convenient place to recycle, they began to bring things in from home. Cardboard boxes from the Bio and Psych department found their way to the recycling center rather than the landfill. Three years ago, the Biology club began taking some of the recyclables over, making it easier to handle the growing amount. Prof. Hoegerman often helps keep the pile neat by sorting through things that are not in the right place.



To Jewell Thomas, recycling has become a way of life. She believes that God has asked us to be good stewards to the planet, and recycling is part of that responsibility. When purchasing something, look for containers that can be recycled and/or are made of recycled materials. Use-once, throw away items clutter landfills and are a waste of our resources. In fact, much to her son's disappointment, Jewell Thomas won't buy the non-recyclable jello pudding cups offered at the grocery store, preferring instead to make pudding from the mixes in recyclable cardboard boxes. It's the small sacrifices that often count. She also believes that the College should set up its own recycling program and insist that students and faculty not dump recyclable items in dumpsters. A program such as this would reduce the amount of trash produced on campus and save money on landfill costs. All in all, through her initiative to start a recycling program in Millington, Jewell Thomas has shown us that one person can truly make a difference.

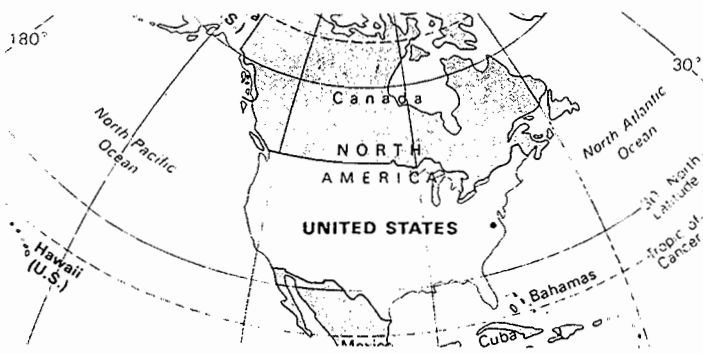
GRADUATING SENIORS: KEEP NICHE COMING AFTER YOU LEAVE

When you know your new address, fill out this coupon and mail to **THE NICHE**, c/o L. Wiseman, Department of Biology, W&M, 23185. We will keep the newsletter coming to you free of charge your first year of "Life After Millington."

NAME: _____

News to share:

ADDRESS: _____



Seniors To Begin "Life After Millington"

THE NICHE asked graduating seniors to tell us what they will be doing next. About 20% of the class responded.

Sara Burmeister will be going to law school at Lewis and Clark School of Law, but first she will spend the summer working for the Northern Rockies Action Group in Montana as a solid waste recycling intern.

Nancy Geer will be moving to Philadelphia to become a Research Technician in the Department of Pharmacology at the University of Pennsylvania School of Medicine.

Pennsylvania is the destination, too, of **Bryan Brendley** who will pursue a Ph.D. in Plant Physiology at Pennsylvania State University. Bryan will be supported by a USDA National Research Fellowship.

Elizabeth Cockey will begin work on an M.S. in Marine Biology at the University of South Florida.

Although he's not sure which medical school he will attend, **Wes Farris** is looking at M.D./Ph.D. programs. He's also considering a possible stint in the Peace Corps.

Elizabeth Davis will be doing missions/social work for the United Methodist Church somewhere (as yet to be determined) in the United States.

Brian Nicholson is heading up the road to Richmond, where he will enter the Ph.D. program in Pharmacology at the Medical College of Virginia.

Also headed to Richmond is **Sandy Kapur** for a B.S. in Pharmacy at MCV.

Carolyn Morris will teach high school Biology in Fairfax County. She plans to pursue an M.S. or M.A. after two or three years.

Michael Vives will begin work toward the M.D. at University of Pennsylvania Medical School.

Steve Crossman is also headed toward medicine, but he hasn't decided yet between Medical College of Virginia and the University of Kentucky College of Medicine.

Peter Oelkers will be working toward the Ph.D. at Wake Forest University.

Among the immediately undecided is **Susan House**. Eventually she plans to work toward a Masters of Public Health degree.

Grad Students Respond: "What Shaped Your Research Philosophy?"

by Tim O'Connell

The Biology graduate students, many of whom are planning careers in research, were asked "What one experience has shaped your research philosophy more than anything else?" Here are their spontaneous responses:

Tim Boyer: "A field-oriented Mammalogy class. It was the excitement of working in the field that really got me interested in Biology as a career. Also, Dr. Nesius and Dr. Rose at Old Dominion --they were willing to spend the time to make a difference."

Ellen McLean: "The research I did as a sophomore (studying bird migration). That and my Archaeology class. That's my answer."

Chris Dassler: "I don't know. What is this for? Probably the Electron Microscopy class I took as a junior."

Robin Parnell: "Ask me in another month."

Craig Bailey: "I don't understand the question. Oh. Then I guess that being a product of the TV generation, it was all those nature documentaries I watched as a kid."

Heather Jones: "The allure of the solitude of nature (at False Cape) and the call of the Cottonmouth."

Susan MacLeod: "Just seemed like the right thing to do. I had no home. I had no job. I needed a student loan to pay my rent."

Patti Staubs: "I have no idea. I haven't started my research yet.... Hey! Don't print that!"

Penny Cazier: "Mine's gotta be Dr. Ware, but you want something with more depth, don't you?"

Greg Keller: "What?! We're supposed to be doing research?!!!"

Ken Callicott is off to Stanford for Ph.D. work in Biology. He is the recipient of a Howard Hughes Medical Institute Predoctoral Fellowship.

Wendy Taylor, awarded a National Science Foundation Predoctoral Fellowship, will be working toward the Ph.D. at Duke University. She has a joint appointment to the Department of Microbiology and Immunology and the Program in Cell and Molecular Biology. Before leaving for Durham, Wendy will be assisting in the Governor's School here at William and Mary.

Cathy Clayton, Amy Epperson, and Peyton Taliaferro will all be attending the Medical College of Virginia's M.D. program in Richmond.

Just up the interstate in Charlottesville, **Ryan Herrington, Beth Peterson, and Jennifer Thorne** will begin their medical studies at the University of Virginia Medical School.

We wish all of our students the best of luck as they begin "Life After DOG Street" and "Life After Millington." CONGRATULATIONS!!

Faculty and Graduate Students Plan Busy Summer of Research and Travel

Professor Gus Hall plans to spend a week backpacking and botanizing in Big Bend National Park, Texas, in mid-June. Afterwards he will join a natural history group for a week at the Rancho Del Cielo International Biosphere Reserve in the Sierra Madre of eastern Mexico.

Professor Bruce Grant continues his work on the peppered moth, *Biston betularia*. He will be working with graduate student **Robin Parnell** on factors which influence caterpillar color, and will also study heritability of background-selection behavior in the same moth. In June, Grant will be in England collaborating with Sir Cyril Clarke on a study of divergence in mating call pheromones between British and North American subspecies.

The incidence of Lyme Disease at Cheatham Annex Naval Supply Center will continue to be an object of study for **Professor Norman Fashing**. In addition, he will collaborate with rising junior **Mark Woody** on a study of mite inhabitants of water-filled treeholes. Fashing is also going to northern California for his high school reunion.

Professor Sharon Broadwater will be teaching in the Biology section of the Governor's School for four weeks, and will be attending the International Phycological Congress at Duke University. She will also spend four weeks at the University of California, Santa Cruz doing molecular biology --small ribosomal subunit sequencing of nuclear and chloroplast DNA in several red algae.

Second-year graduate student **Tim O'Connell** will be continuing his field research on the Virginia barrier islands on gull/tern interactions. After that, he says he will be "searching for the perfect Ph.D. program" and "trying to publish my thesis."

Adjunct Professor Donna Ware will be rewriting the recovery plan for the endangered orchid *Isotria medeoloides* under a contract with the U.S. Fish and Wildlife Service. In mid-August she will be backpacking on the Dolly Sods in West Virginia with a group of herbarium assistants. If there are other herbarium alumni who would like to join Dr. Ware, please call her at 804-221-2213.

Continuing his experiments on substrate adaptation in rock outcrop plants, **Professor Stewart Ware** will be travelling to the Ozarks to collect soil and seeds to bring back to Williamsburg. He will also be painting his house....

Professor Joe Scott continues his serious swimming: a 1-mile swim at Virginia Beach, a 2-mile swim near Charlottesville, and a 4.4-mile swim across the Chesapeake Bay near Annapolis. If he survives all this physical activity, he and **Bill Saunders** will be collecting algae in New England in early summer, and California later on. Scott, Saunders, graduate student **Craig Bailey**, undergraduate Honors Research student **Dawn Field**, **Jewell Thomas**, and Sharon Broadwater will present their work at the International Phycological Congress at Duke University.

Graduate student **Chris Dassler** plans to get a job and get married! He has been accepted into Tuft's School of Veterinary Medicine, but is hoping to defer matriculation for one year to work as a laboratory technician at Medical College of Virginia.

Already, **Professor Jack Brooks** is out West. After spending time in the Big Bend country of Texas, he will participate in a Nature Photography Course in Arches National Park, Moab, Utah.

The American Society of Mammalogists and the Animal Behavior Society annual meetings are destinations this summer for **Professor Dick Terman**. He will also be continuing the 9th year of study on population growth regulation in a wild population of White-footed mice at the Department's Ecological Study Area next to the Law School. Along with graduate student **Tim Boyer**, Terman is continuing a comparative study of Michigan and Virginia mice.

Professor Eric Bradley will continue work with Professor Terman on the vomeronasal organ in mice, as well as finish writing several publications. Perhaps equally important, Bradley says "I will be sailing the Bay on weekends....."

Louis E. Burnett ('73), now Chair of Biology at the University of San Diego and **Charles E. Booth** (M.A., '77), now Associate Professor of Biology at Eastern Connecticut, will join **Professor Charlotte Mangum** for a month of research at the School of Marine Science laboratories on Virginia's Eastern Shore. Undergraduate **Tara Atkins** ('92) will be Mangum's assistant for the summer, and graduate student **Kevin White** ('89) may join the group.

James Green, a William and Mary non-science concentrator, will work with **Professor Martin Mathes** on a Wilson Scholarship (cross-disciplinary summer independent study). Green's project is "The Techniques of Plant Propagation." The Wilson Scholarships, a competitive award program at William and Mary, are designed to promote interdisciplinary study and research between students and faculty in different areas (i.e., Humanities, Social Sciences, Sciences).

Professor Ruth Beck will be working with colonial and solitary beach nesting birds on some of Virginia's barrier islands. She will also be flying over and taking census of Great Blue Heron colonies in Virginia.

Heather Jones, first-year graduate student, will be doing vegetational analysis studies in False Cape State Park, Virginia. She is looking for someone "who is not afraid of plants" to be her unpaid assistant.

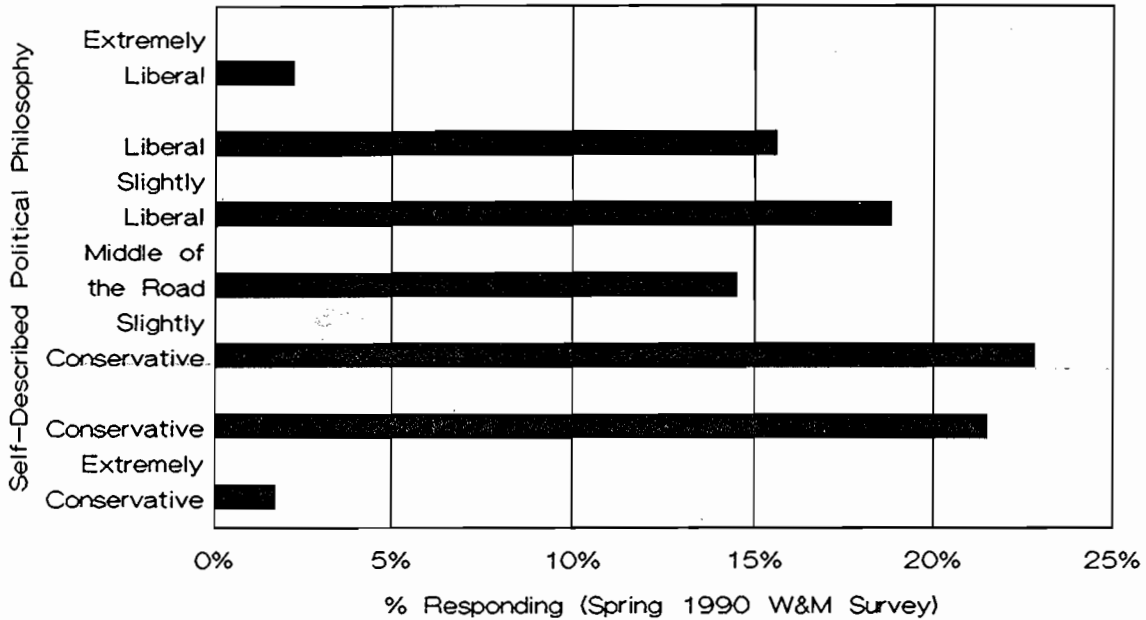
Professor Wiseman will be writing an invited report evaluating the Biology Graduate Program at the University of Richmond, and teaching in the Governor's School in the Department for four weeks. In early August he is part of an American Association for the Advancement of Science-sponsored five-day workshop on Ecology of the Rockies at the University of Denver biological field station on Mt. Evans, Colorado. Following the workshop he will continue his exploration of Colorado and Utah.

Continuing his writing, **Professor Greg Capelli** will begin work on a textbook that will deal with "issues in Biology," ranging from tropical deforestation and the use of pesticides to fetal research, animal rights, and genetic engineering. Capelli will also continue his various studies on Lake Matoaka's problems, and will teach both Principles of Biology and Zoology in summer school.

THE NICHE

*Biology Department Newsletter
College of William and Mary*

Political Philosophies of William and Mary Alumni, 1965 - 1985



THE NICHE
*Department of Biology
College of William and Mary
Williamsburg, VA 23185*

Non-Profit Org
U.S. Postage Paid
Permit No. 26
Williamsburg, VA

PRE-SORTED
BULK RATE

TO: