7-1989

UA66/6/2 Bionews from the Hill

WKU Biology

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Dear Biology Alumnus,

I welcome the opportunity once again to share with you the activities of former classmates, present students and faculty of the Department of Biology at Western Kentucky University during the 1988-89 academic year. I trust that this issue of Bionews from the Hill finds you and yours in good health.

Your response to the inclusion of alumni news in our newsletter has been good. If you returned the questionnaire last year, the information provided appears in this issue. Please use the questionnaire this year to update the information for us so that your former classmates may know of your present location, employment and activities. The success of this part of our newsletter depends on you! I appreciate the assistance of Dr. Joe Winstead in the organization of the alumni news.

The Department of Biology has now been back in place for one year following removal of asbestos and renovation. The year has been one in which we have continued to experience increasing enrollment (please see section on enrollment) with little increase in funding.

We greatly appreciate all of your contributions to our department either through regular scholarships or contributions to the Biology Developmental Fund. As the cost of higher education continues to increase with little increase in state funding, we rely on you more and more for assistance not only for your generous gifts but also for your assistance in spreading the word about the importance of higher education to your community.

I hope that you enjoy this issue of Bionews from the Hill and our attempts to continually improve and expand the information concerning the department and your former classmates.

Sincerely,

Valgene L. Dunham, Head
Department of Biology

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Student and Club News

Outstanding Biology Graduate, 1989
Tie
Hope Hayden (Lebanon, KY)
Duane Osborne (Elizabethtown, KY)

Ms. Hayden, a biology major, will enter the University of Louisville Medical School in the fall semester. Mr. Osborne, a double major in Biology and Chemistry, will also begin medical school this fall at the University of Louisville. Both Hope and Duane finished their undergraduate education here at WKU with perfect 4.0 grade point averages. Congratulations!

L.Y. Lancaster Award for Excellence
Tie
Hope Hayden
Duane Osborne

This is the second year this award has been presented to the outstanding senior pre-medical student accepted to medical school for the fall semester. Our appreciation is extended to Dr. and Mrs. Jim King of Lexington, KY for funding this award in honor of Professor Lancaster, a former faculty member here at WKU.

Stephen Bufton Memorial Fund Grant
National Chapter of American Business Women's Association

Susan Morales (Bowling Green, KY)

Mrs. Morales, a double major in Recombinant Genetics and Biochemistry, was awarded this scholarship to assist her at WKU and in recognition of her academic performance. She will initiate a Ph.D. program at the University of Pittsburgh this coming fall semester.

Scholar-Athlete for 1988
National Football Foundation Hall of Fame

Wayne Bush (Scottsville, KY)

Mr. Bush, a pre-medical student who majored in Biology, was one of only 11 football players from NCAA Division I-AA, II and III to be awarded this post-graduate fellowship. Wayne will use the fellowship this fall as he enters medical school at the University of Kentucky.

Medical School Scholarship
National Honor Society, Phi Kappa Phi

Duane Osborne

Mr. Osborne was one of 50 students who received this award nationwide. At WKU Duane has been an active member of several honorary and service organizations and will use the scholarship this fall at the University of Louisville Medical School.
Third Place: **Rick Welch** (Bowling Green, KY) - "Application of a modified HPLC technique to determine endogenous levels of neurotransmitters in the cockroach brain" (with Dr. Ferrell).

**Timothy Shannon** (Louisville, KY) - "Subcloning southern bean mosaic virus DNA" (with Dr. Rinehart).

Graduate Division

First Place: **Kerrie Elliott** (Bowling Green, KY) - "Ribulose 1,5 bisphosphate carboxylase: purification and immunoelectrophoretic assay" (with Dr. Toman).

Regional Beta Beta Beta Convention
Charlotte, North Carolina

Honorable Mention: **Charlotte Gill** (Allensville, KY) - "Routine isolation of DNA from etiolated soybean hypocotyls" (with Dr. Dunham).

President-elect: **Charlotte Gill** - Ms. Gill, a Recombinant Genetics major, will preside at the 1990 regional convention in Baltimore, Maryland. Region II includes chapters from Alabama, Georgia, Kentucky, Louisiana, Mississippi, Tennessee.

**Beta Beta Beta**

Officers elected for the 1989-90 academic year by the members of the L.Y. Lancaster Mu Gamma Chapter of Beta Beta Beta, national honorary biological society are:

- **President** - Susan Bosch (Paducah, KY)
- **Vice President** - Ronald Cardwell (Roundhill, KY)
- **Secretary** - Minakshi Mane (Leitchfield, KY)
- **Historian** - Philip Johnson (Glasgow, KY)
- **Activities Chairperson** - Becky Green Reitcheck (Fairdale, KY)
- **Faculty Advisors** - Drs. Elliott and Winstead

The chapter at WKU is one of 345 such officially chartered campus organizations in the United States, Canada and Puerto Rico. A prime function of the society is to promote research and to provide monthly science programs of guest lectures on campus. The organization also sponsors various social and community activities for students interested in the biological sciences.

Mr. Joe Smith (Bowling Green, KY), a senior Biology major, represented the chapter at the annual convention of the organization in San Juan, Puerto Rico. In addition to serving as a delegate to the convention, Mr. Smith presented a paper on his undergraduate research, which involved the extraction of sulfur from wood of forest trees. His research was directed by Dr. Joe Winstead (Biology) and Dr. John Riley (Chemistry).
Members of the chapter recently participated in the establishment of a tree swallow preserve on reclaimed strip mined land in Ohio County, KY owned by the Peabody Coal Company. The project, directed by Dr. Ferrell, involved the placement of 50 tree swallow nest boxes in a variety of locations on land set aside by Peabody Coal Company as wildlife habitats. The nesting boxes were purchased by the Nongame Wildlife Program of the Kentucky Department of Fish and Wildlife Resources.

Co-op/Internship

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>Employer</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helen Berg</td>
<td>Biology</td>
<td>Mercy Hospital</td>
<td>Owensboro, KY</td>
</tr>
<tr>
<td>Paul Dahlhauser</td>
<td>Rec. Genetics</td>
<td>WKU-Environmental Science</td>
<td>Bowling Green, KY</td>
</tr>
<tr>
<td>Jennifer Tyler</td>
<td>Biology</td>
<td>U.S. Army Corps of Engineers</td>
<td>Detroit, MI</td>
</tr>
<tr>
<td>Suzanne Wilson</td>
<td>Biochemistry</td>
<td>WKU-Coal Characterization Lab</td>
<td>Bowling Green, KY</td>
</tr>
</tbody>
</table>

Association of Medical Technology Students

Officers elected for the 1989-90 academic year are:

President - Michele Beeler (Hustonville, KY)
Vice President - Rhonda Oakes (Bowling Green, KY)
Sec-Treasurer - Julianna Lindsey (Millwood, KY)
Historian - Sondra Jones (Burkesville, KY)
Faculty Advisors - Drs. Elliott and Toman

Students accepted to medical technology schools are as follows:

Vanderbilt University
Sondra Jones (Burkesville, KY)

St. Mary's School of Medical Technology
Becky Lyons (Custer, KY)

St. Thomas School of Medical Technology
Rhonda Oakes (Bowling Green, KY)
Truman Taylor (Beaver Dam, KY)

Owensboro-Daviess County Hospital
Darla Risley (Henderson, KY)

The following medical technology students are involved in co-op/internships:

Michele Beeler  Taylor County Hospital, Campbellsville, KY
Michele Fuller  Muhlenberg Hospital, Greenville, KY
Pamela Jones   Logan County Hospital, Russellville, KY
Sondra Jones   T.J. Samson Hospital, Glasgow, KY
Rebecca Lyon   Hardin Memorial Hospital, Elizabethtown, KY
Deborah Mink   Hardin Memorial Hospital, Elizabethtown, KY
Rhonda Oakes   Greenview Hospital, Bowling Green, KY
Manisha Patel  T.J. Samson Hospital, Glasgow, KY
Jewel Smith    T.J. Samson Hospital, Glasgow, KY
Pamela Squires Jane Todd Crawford Memorial Hospital, Greensburg, KY
A five year review of WKU students applying to Medical Technology School upon completion of the program on campus reveals that 83% have been accepted into advanced training at hospitals or programs associated with medical schools. The excellent reputation gained by WKU students during their hospital internships has led to this high acceptance rate. Nationally the employment opportunities for medical technology graduates far exceed the number of qualified, professional clinical laboratory practitioners, and it is apparent that the field will be showing good growth for the next decade.

Alpha Epsilon Delta

Officers for 1989-90 are:

President - Toni Cottongim (Beechmont, KY)
First Vice President - Blaine Houchin (Madison, TN)
Second Vice President - Suzanne Wilson (Newburgh, IN)
Secretary - Kristy Garrett (Central City, KY)
Treasurer - Scott Havener (Rockport, IN)
Historian - Tammy Hogan (Cave City, KY)
Scalpel Reporter - Abe Areepanthu (Bowling Green, KY)
Alumni Chairperson - Paula Williams (Hardinsburg, KY)

A total of 12 members of the society graduated this year. The following members were accepted into professional school:

Joseph Allen (Central City, KY) Univ. of Louisville, medicine
Misty Brey (Philpot, KY) Univ. of Louisville, dentistry
Wayne Bush (Scottsville, KY) Univ. of Kentucky, medicine
Darren Cain (Gamaliel, KY) Univ. of Louisville, medicine
Anita Fleenor (Bowling Green, KY) Univ. of Louisville, medicine
Crystal Hagan (Scottsville, KY) Univ. of Louisville, dentistry
Hope Hayden (Lebanon, KY) Univ. of Louisville, medicine
Duane Osborne (Elizabethtown, KY) Univ. of Louisville, medicine
Bryan Puckett (Bowling Green, KY) Univ. of Louisville, medicine
Daniel Renick (Elkton, KY) Mercer Univ., pharmacy
Daphne Watkins (Bowling Green, KY) Univ. of Louisville, medicine
Rick Welch (Bowling Green, KY) Univ. of Kentucky, medicine

The society was active during the past year in numerous events in which it assisted the Department of Biology at several social events and in recruitment. In addition, AED students were active in sponsoring several speakers covering a range of topics relating to professional activities.

The following members of the society each received a D. Hugh Puckett-Alpha Epsilon Delta Scholarship for education here at WKU:

Kristy Garrett (Mt. Hermon, KY)
Toni Cottongim (Beechmont, KY)
Tammy Hogan (Cave City, KY)
In addition to the Alpha Epsilon Delta members, these Biology majors have also been accepted into professional school programs:

Melisa Blair (Lexington, KY) Univ. of Louisville, dentistry
Randal Davidson (Bowling Green, KY) Univ. of Kentucky, medicine
David Johnson (Philpot, KY) Univ. of Kentucky, dentistry
David Meno (Greenville, KY) Mercer Univ., pharmacy
Traci Mullins (Louisville, KY) Univ. of Kentucky, medicine
Mark Risen (Greensburg, KY) College of Podiatric Medicine, Des Moines, IA

Association of Undergraduate Geneticists

A new club has been organized which complements the B.S. degree program in Recombinant Genetics here at WKU. In addition to sponsoring special lectures on genetics, the club will also conduct field trips to genetic research laboratories involved in both basic and applied research. An innovative function of the new club will be to coordinate information and methodology to help students choose and gain admittance into graduate school. Membership in the club is not limited to Recombinant Genetics majors because the application of modern genetics to basic agriculture, livestock management as well as forestry and wildlife management promises to integrate numerous areas of both basic and applied science.

Officers during the first year of AUG were:

President - Tim Shannon (Louisville, KY)
Vice President - Melissa Wrenn (Bowling Green, KY)
Sec-Treasurer - Becky Burdine (Bowling Green, KY)
Historian - Kristina Hoffman (Bowling Green, KY)

Graduate School
Fall Semester, 1989

The following students have been accepted to graduate school for the coming semester:

Paul Dahlhauser  Bowling Green State University
Susan Morales  University of Pittsburgh
Doug Perkins  Mississippi State University
Tim Shannon  Western Kentucky University
Joe Smith  University of Cincinnati
Christopher Wright  Western Kentucky University

New Facilities

During Science and Technology Week in April, the Department of Biology presented an open house for the public. During the open house visitors were introduced to two new facilities in our department.
Electron Microscope Facility

Renovation and expansion of our facility have resulted in the remodeling of the labs and the doubling of floor space to exceed 2500 square feet. Included in the project has been the installation of two additional electron microscopes bringing the total number of instruments to four. With self-contained temperature and air controls, the laboratory will be in the position to conduct research and analysis of controlled items such as asbestos fibers as well as doing sophisticated x-ray analysis of materials. The laboratory will allow the department to expand activities at the subcellular level to include both basic and applied research. The new facilities will also allow expansion of student use of electron microscopy in the training course that is available. One of the new electron microscopes installed, valued at $50,000, was obtained by the efforts of Mr. Rod McCurry, Director of the EM Facility, from McCrone Environmental Associates in Atlanta, Georgia. The donation of the high resolution JEOL scope was made by Mr. Jim Millette of McCrone Environmental in recognition of the outstanding job that Western Kentucky University has done in training students to enter the field of electron microscopy.

L.Y. Lancaster Nature Exhibit

The department was the recent recipient of a gift of $4000 to help develop a nature exhibit recently established on the second floor of Snell Hall. The funds, from the L.Y. Lancaster Society, will be used to coordinate a special nature exhibit in honor of the late Dr. Lancaster. The new exhibit covering over 2,500 square feet, is being developed to serve environmental education needs of the region. Included in the exhibits are museum quality specimens of most of the native bird and animal life of Kentucky. Dr. Herb Shadowen, who retired as a full time professor of Biology in 1988, serves as the coordinator and director of the exhibit. The exhibit is open to the public and is especially designed to be attractive to public school students.

Scholarships

The Department of Biology awarded a total of 30 scholarships worth over $13,000 to deserving undergraduate students during 1988. These included:

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Number Awarded</th>
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<tbody>
<tr>
<td>Department of Biology</td>
<td>4</td>
</tr>
<tr>
<td>Ernest O. Beal</td>
<td>1</td>
</tr>
<tr>
<td>Florence and Basil C. Cole</td>
<td>20</td>
</tr>
<tr>
<td>J.R. Whitmer</td>
<td>1</td>
</tr>
<tr>
<td>Lewis B. Lockwood</td>
<td>1</td>
</tr>
<tr>
<td>D. Hugh Puckett-AED</td>
<td>3</td>
</tr>
</tbody>
</table>
Your contributions, along with those of the faculty, have now increased the total endowment of the Biology Department Scholarships to over $34,000. Your efforts are certainly appreciated and necessary in helping good students stay in school. The department continues to attract the best students to Western Kentucky University. Each year the university awards 10 Presidential Scholarship Awards. These are of the most value offered by WKU. In the fall semester, 1989, eight out of ten of these outstanding students will be majoring in a program in the Department of Biology. Please continue to help us with your contributions to the Department of Biology Scholarship Fund.

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Enrollment

Enrollment increases in Biology courses exceed the increase in students that has been reported for the entire university. Since 1985, the number of student credit hours in courses offered by the department has increased by 54%. The Recombinant Genetics major has doubled in size in the second year of its existence and will have nearly 50 students in the fall semester. Unfortunately, funding has not kept pace with enrollment. This situation is best illustrated in the following graph.

If funding to Kentucky universities does not improve, our ability to continue to provide excellent educational opportunities in the Department of Biology will be inhibited.

If you are willing to assist us in providing financial assistance for equipment and supplies necessary for the day-to-day operation of the department, please contribute to the Department of Biology Development Fund. You can be sure that your contribution will go directly to the cost of laboratory supplies and equipment. Please remember that a number of institutions and industries are willing to match your contribution which is tax exempt.
FINANCIAL SUPPORT

-Per Student Basis-

Departmental Expenditure Per Student. Overall operation budget and budget for chemicals and supplies.
**Faculty News**

**Honors**

**L.Y. Lancaster Professorship**  
*Dr. Blaine Ferrell*

Dr. Ferrell, Associate Professor of Biology, was honored by being named L.Y. Lancaster Professor. Dr. Ferrell was named to the professorship because of his interest in teaching our pre-medical students and involving them in undergraduate research. The professorship was established by matching funds from the Ogden Foundation and the L.Y. Lancaster Memorial Lectureship Society. Dr. Ferrell warrants this honor for his commitment to the support of the pre-medical program and his excellent teaching, research and public service.

**President**  
*Association of Southeastern Biologists*  
*Dr. Joe Winstead*

Dr. Winstead, Professor of Biology, was elected president of ASB, an association of over 1300 professional biologists representing colleges, universities, industry and governmental agencies in the southeastern United States. This deserved honor brings credit to Dr. Winstead's excellence in teaching and research and is an indication of his standing in the academic community of biologists.

**Scientist in Residence**  
*Dr. Robert Hoyt*

Dr. Hoyt, Professor of Biology, was recently awarded travel funds by the Southern Regional Education Board of Atlanta, Georgia and WKU in support of his nine week research stay in Scotland this summer. Dr. Hoyt will be a scientist in residence at the Scottish Marine Biological Station in Oban, Scotland examining the receptor organ development in larval fish. Dr. Hoyt's studies are important to both the sport and commercial fishing industries as the work involves both environmental and nutritional parameters of fish development.

**Parasitology Workshop**  
*Dr. Larry Gleason*

Dr. Gleason, Professor of Biology, was named as one of only 14 internationally recognized specialists to participate in a workshop on the intestinal parasite called the thorny-headed worm. The workshop was held in March at the University of Exeter in England. The workshop concentrated on relating experimental data on the ecology of this parasite with a goal of finding applications to the control of infections of wildlife.

**Chautauqua Short Course**  
*Dr. Patricia Pearson*

Dr. Pearson, Associate Professor of Biology, recently received a National Science Foundation appointment to attend a Chautauqua Short Course entitled Critical Thinking in Science Teaching. The course, held at the University of Dayton, Dayton, Ohio, was limited to 20 applicants. The programs are designed to allow participants to convey new ideas and techniques in improving teaching methods to colleagues at their home institution.
Major Publications

Dr. Gary Dillard: Freshwater Algae of the Southeastern United States, Part I: Volvocales, Tetrasporales and Chlorococcales. This first book, part I, was published by E. Schweizerbart'sche of Stuttgart, Germany and is the result of Dr. Dillard's continuing research interests in algae of the southeastern United States.

Dr. Valgene Dunham: DNA Replication in Plants. This book concerning DNA replication and repair mechanisms in higher plants, contains a chapter co-authored with Dr. John Bryant, Professor and Head of the Department of Biological Sciences at the University of Exeter, Exeter, England. The book, published by CRC Press, was also co-edited by Drs. Dunham and Bryant.

Replication of Nuclear DNA. This chapter in a book entitled Oxford Surveys of Plant Molecular and Cell Biology, Vol. 5, was co-authored by Drs. Dunham and Bryant. The book was edited by B.J. Miflin and published by Oxford University Press, Oxford, England.

Dr. Robert Hoyt: A Bibliography of the Early Life History of Fishes. This work in two volumes is an extensive bibliography of the literature on the development of fish. Dr. Hoyt traveled extensively to the major fishery biology centers of the world in compiling this exhaustive bibliography. The volumes were published by Western Kentucky University.

Major Federal Grants

Dr. Kenneth Balak: Deafness Research Foundation, $15,000. Dr. Balak's research in developmental biology deals with hair cell regeneration in the hearing process.

Dr. Valgene Dunham: National Science Foundation, $106,400 for two years. The grant is for the Young Scholars Program to support research experiences for 20 high school students in molecular biology. Kentucky high school students (10th or 11th graders) will work in the project with Drs. Dunham, Houston, Pearson, Rinehart and Toman. The program consists of a 5-week summer research experience at WKU followed by research during the next year at the student's high school in conjunction with a high school teacher who will act as mentor for the research project.
ALUMNI NEWS

The following is the total news and information about Biology Department Alumni who responded to last year's survey. The listing is organized depending upon date of first degree from Western.

1930's

George P. Whitside, 1931, B.S. M.D. 1941 Univ. of Tenn. 400 E. Main, Glasgow, Ky. Just completed 45 years in private practice of medicine.

Theresa (Whitmer) Gerard, 1936, B.S. Recently retired as hostess in charge of Garrett Conference Center at WKU.


1940's


1950's


Charles L. Cooper, 1958, B.S. M.D. 1962 Vanderbilt. 2414 E. Plaza Dr., Tallahassee, FL 32308. Private medical practice.

1960's


William H. Lee, Jr., 1965, B.S. D.M.D. 1969 Louisville, 216 Morningside St., Elizabethtown, KY 42701. Private practice in general dentistry and is also currently serving as Coroner of Hardin County.


1970's

John Alcott, 1970, B.S. 6325 Hopkinsville Rd., Russellville, KY 42276. Self employed farming operation of corn, wheat, soybeans and beef cattle. Married to Myra Berry, they have two daughters Suzanne (17) and Angela (14).


Shirley (Hassell) Chamberlain, 1971, M.S. Director of the Medical Technology Program at Indiana State University, Terre Haute, IN.

Robert D. Williams, 1971, M.S. Ph.D. 1974 Purdue. Currently USDA Research specialist in crop physiology and lives with wife, Pat, and their daughters in Durant, Oklahoma.

Dennis A. Durso, 1972, B.S. 106 Wooded Falls, Louisville, KY 40243. Senior Professional Hospital Representative for McNeil Pharmaceuticals.

Henry H. Lyon, 1972, B.S. M.S. 1975 WKU. Currently an asbestos auditor in the compliance branch of the Natural Resources and Environmental Protection Cabinet for the state of Kentucky.

Larry Daniel, 1973, B.S. M.S. 1975 WKU, Ph.D. 1978 Univ. Tenn. Medical School at Memphis. Associate Professor of Biochemistry at Wake Forest Univ. in Winston Salem, NC.


Anthony M. Greco, 1978, M.S. Research technician in electron microscopy at the Marine Science Institute of the University of South Florida which is located in St. Petersburg, Florida.


Mary Todd Stephenson, 1978, B.S. D.M.D. 1982 Louisville. P.O. Box 376, Burkesville, KY. Private practice in dentistry and currently serves on Board of Directors of Delta Dental of Kentucky, Inc.

Neil Alan Fortner, 1979, M.S. Ph.D. 1983 Cleveland State. 14678 Zenith Dr., Newbury, OH 44065. Director of toxicology, Southgate Medical Laboratories in Cleveland, OH.

Patty (McCubbin) Payne, 1979, B.S. 580 A Rural Hill, Nashville, TN 37217. An ASCP Medical Technologist at Baptist Hospital working in the Chemistry Department of the lab specializing in electrophoresis.

Gaye (Lacefield) Foster, 1979, B.S. 1416 Old Gallatin Rd., Scottsville, KY 42164. An ASCP Medical Technologist in Microbiology at Greenview Hospital in Bowling Green. Gaye and husband have two children Rachel Gaye, 5 yrs. old, and Paul Curtis, 3 yrs. old. Gaye ran in the Nov. 87 New York City Marathon.

1980's

Eddy R. Stockton, 1980, B.S. M.B.A. 1984 Tenn. Tech. Administrator at Wayne County Hospital in Monticello, KY.

Stephanie D. Wilwayco, 1981, B.S. M.D. 1985 Louisville. 3453 Steeplechase Lane #2C, Loveland, OH 45140. Completed three year family medicine residency at the Univ. of Cincinnati in 1988 and is practicing physician for Doctor's Urgent Care in Middletown, Ohio in addition to serving as a cruise physician for Norwegian Cruise Lines.


Anthony C. Hatcher, 1982, B.S. Cave City, KY 42127. Quality Control Supervisor and Medical Technologist at T.J. Samson Community Hospital in Glasgow, Ky.
Jim Pauley, 1982, M.S. Ph.D. 1986 Marquette. Research Associate at the Institute for Behavioral Genetics of the University of Colorado at Boulder.


Paul E. Bayer, 1984, M.S. Research scientist for Sheladia Assoc. Inc. in Rockville, MD.

Vickie Carol Lowe, 1984, B.S. 108 Dantzler Court, Lexington, KY 40503. Fourth year medical student at Univ. of Ky. Currently applying for residency program in physical medicine and rehabilitation.

Timothy G. Price, 1984, B.S. M.D. 1988 Louisville. 5407 Cranwood Lane, Louisville, KY 40291. Currently intern of internal medicine at Wm. Beaumont Army Medical Center in El Paso, TX.

Mike Currier, 1985, B.S. 395 Hickory Trace Dr., Nashville, TN 37211. Analytical lab technician for Stauffer Chemical Company in Nashville.


Brad M. Watkins, 1987, B.S. 2512 Cross Hill Ct. #33, Louisville, KY 40206. A second year medical student at Louisville, Brad was the First Place Student Research Award winner at UL and presented a paper at the National Student Research Forum in Medicine in Nebraska and Texas. He was president in 1988-89 of the Phi Delta Epsilon Medical Fraternity at UL.

Petrina Beury, 1988, B.S. Rt. 6, Pennyrite Dr., Madisonville, KY 42431. Currently a physical therapy aide at the Amelia Brown Frazier Rehabilitation Center in Louisville. She is also attending UL's Physical Therapy program.

Alecia Raymer Graves, 1988, B.S. 257 Heritage Hill Trail, Louisville, KY 40223. Currently medical student at the Univ. of Louisville.

Amy S. Houston, 1988, B.S. 517 Whitfield, Apt. B., Starkville, MS 39759. Graduate Assistant in the Department of Entomology at Miss. State Univ.

Howard Rogers, 1988, B.S. 2373 Spring Valley Dr. #4-C, Huntington, WV 25704. First year medical student at Marshall University.

Brad Dillard, 1988, B.S. 24 Revere Circle, #11, Jackson, TN 38305. Medical Sales Representative for Roerig, a division of Pfizer Pharmaceuticals.
Biological Science Alumni Survey
Western Kentucky University

1. Name

Address
(if different from that on envelope)

2. Education

Bachelors Degree
Masters Degree
Additional Degree(s) _____

3. Current job title or description

4. Present employer

5. News for Alumni Newsletter

Thank you for your assistance.