

# THE CHI BETA PHI RECORD



2008

**THE  
CHI BETA PHI  
RECORD  
2008**

The Chi Beta Phi Record is published annually by the Grand Chapter of the  
Chi Beta Phi National Science Honorary and is the official publication of Chi Beta Phi.

Editor ..... William J. Pohley

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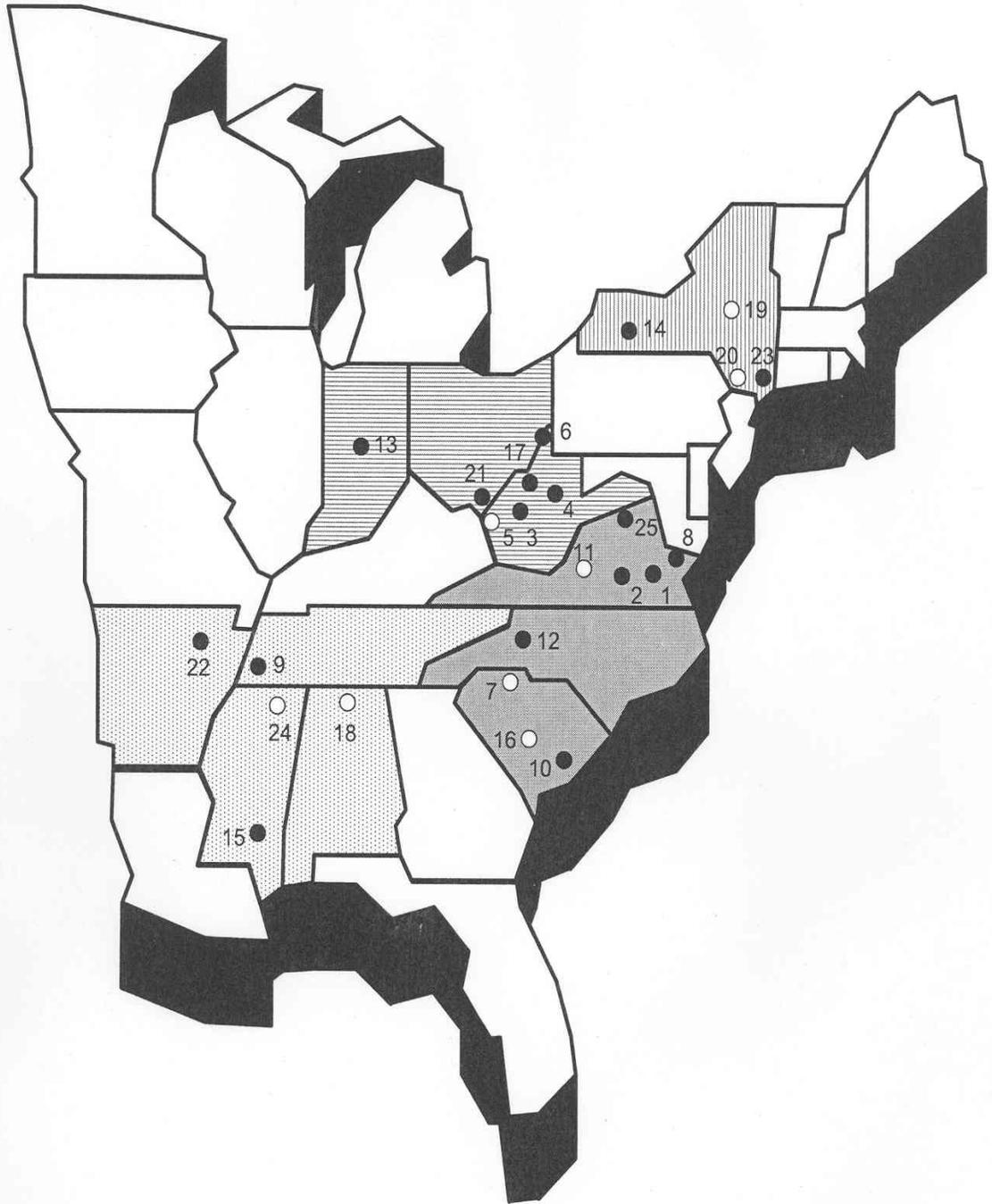
# *CHI BETA PHI*

IS A NATIONAL SCIENCE HONORARY  
WHOSE PURPOSE IS  
TO PROMOTE INTEREST IN SCIENCE  
AND  
TO GIVE RECOGNITION TO SCHOLARLY ATTAINMENT  
IN AND OUTSTANDING CONTRIBUTIONS TO THE  
FIELDS OF SCIENCE

***Scientia Omnia Vincit***

**SCIENCE CONQUERS ALL**

# Chi Beta Phi Chapters



● = Active

○ = Inactive

## Chi Beta Phi Chapters

Alpha	1916	Randolph-Macon College, Ashland, Virginia
Gamma	1921	Hampden-Sydney College, Hampden-Sydney, Virginia
Epsilon	1923	University of Charleston, Charleston, West Virginia
Zeta	1925	Davis & Elkins College, Elkins, West Virginia
Kappa	1925	Marshall University, Huntington, West Virginia
Rho	1935	West Liberty State College, West Liberty, West Virginia
Theta Sigma	1941	Limestone College, Gaffney, South Carolina
Kappa Sigma	1945	The University of Mary Washington, Fredericksburg, Virginia
Phi	1947	University of Memphis, Memphis, Tennessee
Chi	1948	Columbia College, Columbia, South Carolina
Omega	1948	Lynchburg College, Lynchburg, Virginia
Alpha Beta	1952	Lenoir-Rhyne College, Hickory, North Carolina
Alpha Delta	1953	Franklin College, Franklin, Indiana
Alpha Epsilon	1954	Keuka College, Keuka Park, New York
Alpha Zeta	1955	William Carey College, Hattiesburg, Mississippi
Alpha Eta	1956	Newberry College, Newberry, South Carolina
Alpha Iota	1964	Glenville State College, Glenville, West Virginia
Alpha Kappa	1964	Athens State College, Athens, Alabama
Epsilon Sigma	1965	State University of Oneonta, Oneonta, New York
Alpha Xi	1969	St. Francis College, Brooklyn, New York
Alpha Pi	1970	University of Rio Grande, Rio Grande, Ohio
Alpha Rho	1973	Arkansas College, Batesville, Arkansas
Alpha Sigma	1974	Molloy College, Rockville Centre, New York
Alpha Tau	1984	Rust College, Holly Springs, Mississippi
Alpha Upsilon	1984	Shenandoah University, Winchester, Virginia

**Grand Chapter Officers  
2006 – 2008**

**PRESIDENT**

Dr. Michelle Mabry  
Davis and Elkins College  
100 Campus Drive  
Elkins, WV 26241  
(304) 637-1248  
mmabry@davisandelkins.edu

**VICE-PRESIDENT**

Dr. William J. Pohley  
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101 Branigin Blvd.  
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**SECRETARY**

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Glennville State College  
Glennville, WV 26351  
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Paul.Peck@glennville.edu

**TREASURER**

Prof. Carl T. Meadors  
Post Office Box 253  
St. Albans, WV 25177  
(304) 727-0649  
[bioprof@earthlink.net](mailto:bioprof@earthlink.net)

**HISTORIAN/MARSHALL**

Cystal Bennett  
Epsilon Chapter  
University of Charleston  
Charleston, WV

**WEBPAGE**

[www.chibetaphi.org](http://www.chibetaphi.org)

## **61<sup>th</sup> Chi Beta Phi National Conference Host 2008**

Glenville State College is the most centrally located of the state-supported colleges of West Virginia. It was established by an act of the West Virginia Legislature in 1872 as the “Glenville Branch of the State Normal School of West Virginia”. Its purpose was to provide “instruction and practice for common school teachers in the science of education and the art of teachers”. Glenville remained a normal school until 1930 when the State Board of Education authorized the school to award the Bachelor of Arts in Education degree and on March 4, 1931 the State Legislature changed the name to Glenville State Teachers College. Degrees were first awarded to a class of nine in 1931. In keeping with ideas prevalent at the time, the name of the school was changed to Glenville State College in 1943. Many subsequent revisions of the curriculum have provided for a continued emphasis on teacher preparation together with creation of programs in business, pre-professional programs in the sciences and arts, nursing, forestry, land surveying, and natural resource management.

The conference’s program took place in the recently renovated Science Hall. In addition to the physical renovation and redesign of all its laboratories and class rooms Glenville State College was awarded a three-year grant from NASA in 2006 to enhance the STEM Initiative in West Virginia. The primary objectives are to recruit students to pursue a career in the STEM disciplines and develop a science research workforce. To accomplish these goals, the college has purchased additional research instrumentation, Pasco equipment, and video conferencing equipment. In addition to using the research instrumentation in our college courses, secondary science teachers and students have had access and training with this instrumentation.

# Chi Beta Phi 61<sup>st</sup> National Conference

October 18, 2008

Alpha Iota Chapter Host

Science/Math Complex

Glennville State College

Glennville, WV

## October 17<sup>th</sup> 2008

7:00 - 9:00 pm      Movie and Mixer, Mollohan Center Theater - Room 115A

## October 18<sup>th</sup> 2008

8:30 - 9:00 am      Sign in and Refreshments, Science/Math Complex - Room 107

9:00 - 9:05          NASA Grant Presentation, Science/Math Complex – Room 107

9:05 - 9:25          Science/Math Complex Tour

9:25 - 11:10        Session I, Science/Math Complex Room 107  
Call to Order, Opening Prayer  
Roll Call of Chapters, Proxy Assignments Chapter Reports  
Report of the National Officers Committee Assignments  
    Awards  
    Presentations  
    Election

11:15 - 12:10        Committee Meetings - Room locations will be announced

12:15 - 1:40        Lunch and Speaker, Mollohan Center Ballroom - (Herb Roasted Chicken, Vegetarian Lasagna, Caesar Salad, Green Beans, Mashed Potatoes with Gravy, Double Chocolate Cake, Assorted Drinks)

1:45 - 2:45        Session II, Science/Math Complex - Room 107  
Conclusion of Business - Old, New, including Election  
Awards Committee Report to the President

2:45 - 3:00        Break, Science/Math Complex 1<sup>st</sup> Floor Hallway

3:00 - 6:00        **Presentation of Papers**, Science/Math Complex - Room 107

6:00                Pizza, Science/Math Complex - Room 208  
Session III, Awards and Announcements - Science/Math Complex - Room 107

## Roll Call of Chapters/Proxies

Chi Beta Phi 61<sup>th</sup> National Conference  
October 18, 2008

<u>Chapter</u>	<u>Chap. Rept.</u>	<u>Delegate or Proxy</u>
Alpha	-	-
Gamma	+	Benjamin Brown
Epsilon	+	Tierra Williams
Zeta	+	Jennifer Boyle
Kappa	-	-
Rho	+	Keith Gallagher
Kappa Sigma	+	Sarah Ball
Phi	+	Eli Walker (Alpha Iota)
Chi	-	-
Alpha Beta	+	Michelle Mabry
Alpha Delta	+	Bill Pohley
Alpha Zeta	inactive status requested due to hurricane damage	
Alpha Eta	-	
Alpha Iota	+	Jason Poling
Alpha Xi	+	John Brown (Alpha Iota)
Alpha Rho	+	Judy Crissman (Kappa Sigma)
Alpha Sigma	+	Adam Hackney (Epsilon)

Present: 8  
Proxies: 4  
Total: 12

## Minutes of the 61<sup>th</sup> National Conference

Following refreshments provided by the host chapter, Alpha Iota, President Mabry called the 61<sup>th</sup> National Conference to order at 9:00 AM.

John Brown of the host chapter explained the NASA grant awarded to Glenville. Details are available on the College's website, [www.glenville.edu/NASA](http://www.glenville.edu/NASA).

Alpha Iota faculty and students lead the participants on a tours of their newly renovated science building.

President Mabry reconvened the meeting and asked for a member of the host chapter to read the Honorary's prayer. Katie Walker read the traditional Chi Beta Phi prayer. The roll call of chapters followed. If a chapter was called and there was no representative present but a proxy had been submitted with the Chapter Report, the chapter was assigned a proxy and considered present. A quorum was present. The Chapters present and their delegate or proxy were as follows:

<u>Chapter</u>	<u>Delegate or Proxy</u>
<u>Gamma</u>	<u>Benjamin Brown</u>
<u>Epsilon</u>	<u>Tierra Williams</u>
<u>Zeta</u>	<u>Jennifer Boyle</u>
<u>Kappa Sigma</u>	<u>Sarah Ball</u>
<u>Rho</u>	<u>Keith Gallagher</u>
<u>Phi</u>	<u>Eli Walker (Alpha Iota)</u>
<u>Alpha Beta</u>	<u>Michelle Mabry</u>
<u>Alpha Delta</u>	<u>Bill Pohley</u>
<u>Alpha Iota</u>	<u>Jason Poling</u>
<u>Alpha Xi</u>	<u>John Brown (Alpha Iota)</u>
<u>Alpha Rho</u>	<u>Judy Crissman (Kappa Sigma)</u>
<u>Alpha Sigma</u>	<u>Adam Hackney (Epsilon)</u>

The Chapter Reports were then presented. The reports were presented by the chapter delegate or the proxy.

The reports of the National Board Officers then followed. President Mabry indicated she was transitioning to her position at Lenoir-Rhyne University. That transition involved her passing the advisor role at Davis and Elkins to Dr. Stover and working to reactivate the chapter at Lenoir-Rhyne University. Vice President Pohley indicated problems associated with hosting the Honorary's website on a college/university server and indicated research he had done on purchasing a separate domain for Chi Beta Phi. Advantages would include being better able to promote the Honorary. Secretary Paul Peck of Alpha Iota indicated he and his chapter were busy preparing for the National Conference. Treasurer Meadors had his usual complete and detailed report that can be found later in this publication. Complete reports follow the chapter reports.

After the officer reports a number of items were discussed. Related to the Treasurers' report it was suggested that more money be moved from checking into savings in order to earn a higher interest rate. Mr. Meadors explained the history of the treasury and the reason for the current situation. The treasurer will investigate savings accounts/CDs. It was suggested by the secretary that shopping for the best rate might be worthwhile. Our current \$25 national lifetime membership fee was discussed and it was decided that although very reasonable, the current fee should be maintained until such time as an increase is needed. A question concerning clothing items for the Honorary was discussed. The point was made that sometimes the cost of having clothing items made, particularly for small chapters was prohibitive. A discussion followed and mention was

made of the company CafePress.com that will put submitted artwork on a variety clothing and other items. The major advantage of this approach is that the Honorary would not have to get involved in ordering and selling clothing. Hopefully as chapters design artwork it can be uploaded to CafePress for the benefit of all chapters. Pohley will investigate this further.

After the Officer reports, committees were then assigned. The committees were the Awards Committee, Presentations Committee, and Elections Committee. President Mabry and Treasurer Meadors pointed out the duties of the committees. The committees were comprised as follows:

Awards Committee: Judy Crissman (Chair), Adam Hackney (Epsilon), Benjamin Brown (Gamma), Tierra Williams (Epsilon), Krista Duncan (Alpha Iota).

Presentations Committee: Bill Pohley (Chair), Larry Baker (Alpha Iota), Sarah Ball (Kappa Sigma), John Robinson (Epsilon).

Elections Committee: Paul Peck (Chair), John Brown (Alpha Iota), Keith Gallagher (Rho), Jennifer Boyle (Zeta), Jared Aguilar (Rho).

President Mabry adjourned the morning session. Some committees met prior to lunch and our guest speaker, Mr. Mike Masterman at 12:15 in the Mollohan Center Ballroom A speaker profile follows these minutes.

After lunch and our lecture presentation President Mabry reconvened the Conference.

Old business:

C.T. Meadors reported we are still looking for someone to produce Chi Beta Phi stationery.

The new web domain [www.chibetaphi.org](http://www.chibetaphi.org) belongs to the Honorary and is up and running.

Judy Crissman is continuing to investigate the revision of the Honorary's prayer to make it more inclusive of the diverse membership of the organization.

New business:

Treasurer Meadors introduced a motion to include amend Article III, Section 3 of the National Constitution to modify the membership requirement to allow alumni to be eligible for election to the National Board. He explained the rational for his motion and a brief discussion followed. The motion was approved unanimously. The amended sentence from the National Constitution follows with the change in bold face type. " Any regular member, honorary member, associate member **or alumnus** shall be eligible for election to this body."

Treasurer Meadors initiated a discussion of our reimbursement practices for chapter attendance. After discussion a motion was approved to amend Article V, Section 6 of the National Constitution to increase the mileage reimbursement from .20 and .25 to .30 and .40. The section follows with the change in bold face type.

"Section 6. The conference expenses: Transportation expenses of the chapter delegates to and from the session by economy class commercial carrier or, if driving, at the rate of **30** cents per mile or **40** cents per mile for the delegate plus the faculty advisor, conference expenses of National Officers and any and all incidental expenses of the conference shall be paid from the Treasury of the organization and be itemized as conference expenses. "

Treasurer Meadors moved that we accept offers to host the 2009 Conference at Rho at West Liberty State College and the 2010 Conference at Epsilon at the University of Charleston.

A question was raised concerning “retroactive initiation” for a student who was eligible but not invited one semester. After some discussion it was determined after consulting the National Constitution that this type of decision was a chapter decision.

Vice President Pohley brought up the need to update the Honorary’s promotional literature and showed some examples of the type of materials produced for other organizations. A lengthy discussion followed. It was pointed out that mailings are frequently ignored but that even a low success rate would be worth the investment. One particular example was a mailer that served as both a poster and an informational piece. The poster would serve to recruit members on campuses with chapters as well as encourage the formation of new chapters if students saw the poster. Costs were discussed and it was pointed out by Larry Baker (Alpha Iota) that costs would be lower if we did it “in house” using a college/university printing service. Some discussion followed about having a student(s) work on the project and it was generally agreed that funds could be made available by the National to support such an effort.

The presentation of science papers then followed:

“Retinoic Acid Induced RAR and RXR mRNA Expression and Responsiveness in Human Melanocytes and Various Stages of Melanoma.” **Hackney, Adam**; Miles, Sarah; Fan, Jun; and Niles, Richard M.

“S-ADENOSYLMETHIONINE (SAME) REVERSAL OF ACETAMINOPHEN (APAP) EFFECTS ON HEPATIC GLUTATHIONE PEROXIDASE AND HEPATIC SAME LEVELS.” **Williams, Tierra**; Brown, J. Mike; Ball, John G.; Hogsett, Amy; Valentovic, Monica.

“Binding Energies of Various Effector Molecules in the Presence of Flurbiprofen in an Oxoheme.” **Gallagher, Keith**; Lee, Monica R.

“A Survey of the Depth Related Soil Microbial Diversity of the Yellow River Delta by Plate Counting.” **Brown, Benjamin M.**

“Rings of Prime Power Order.” **Neil, Justin**; White, Natalie

An abstract of work done by member J. Andrew Surface was read by Benjamin B. Brown and is included.

Following the presentations by Chi Beta Phi members a series of papers were presented by Glenville students as part of the NASA grant. Presenters were: Jesse De La Cruz, Jessica Lamb, and Gina Cottrill.

Dr. Mabry thanked the presenters for excellent papers.

After the presentations pizza and soft drinks were provided followed by the Awards Ceremony.

President Mabry announced the Awards recipients:

Outstanding Chapter – Epsilon  
Outstanding Advisor – Dr. John Robinson, M.D., Epsilon  
Most Improved Chapter - Gamma  
Blackwell Distance Award – Kappa Sigma  
Host Chapter Award – Alpha Iota  
National Key Award would be announced later. (It was awarded to Christopher Kent Arnatt, Gamma)

The top paper presentations as determined by the Presentations Committee were then announced. Treasurer Meadors presented checks to the winners.

First Place: \$100    Tierra Williams (Epsilon)  
Second Place: \$75    Justin Neal, (Alpha Iota)  
Third Place: \$50    Keith Gallagher (Rho)

Treasurer Meadors then thanked everyone for their attendance and participation and complimented the host chapter on their excellent work as host. He then announced that the 61<sup>th</sup> National Conference was now adjourned and wished everyone a safe trip home.

## **SPEAKER PROFILE**

### **Mike Masterman**

Michael F. Masterman is the founder and president of Extreme Endeavors and Consulting. He developed the company with the objective of, “engaging austerity through innovation,” to achieve results. Mr. Masterman has guided Extreme Endeavors to be one of the only companies in the US to support NASA Operations in Antarctica and to support the design and installation of a cave monitoring system for Hellhole, one of the most notorious caves in the US due to its sheer 180 foot drop to access the cave.

Mr. Masterman developed a system for monitoring the cave environment within School House and Hell Hole caves and served as a liaison between the West Virginia Department of Natural Resources and Greer Limestone (the customer) to improve relationships and ensure that limestone mining within the state does not harm the delicate ecological balance found to contain an endangered species.

Prior to the formation of Extreme Endeavors, Mr. Masterman held the position of Winter Site Manager for the Amundsen Scott South Pole Station, where he was responsible for managing a crew of forty personnel and maintaining the most remote station in the world for the National Science Foundation. While holding this position of winter site manager, Mr. Masterman was responsible for all emergency operations occurring at the South Pole. This included, but is not limited to, fires, medical responses, acid spills, and power outages.

Mr. Masterman worked as the Science Coordinator for the South Pole Station, ensuring that scientists had the resources they needed to conduct their research. Mr. Masterman interacted with scientists, the National Science Foundation, and other resources on-station to establish effective and reliable scientific operations at the South Pole station, Antarctica.

Prior to operations in management of the South Pole station, Mr. Masterman worked as a research scientist and engineer for astrophysical projects at the South Pole. His initial work was in the measurement of the cosmic microwave background. All together, Mr. Masterman has spent 28 months in Antarctica designing equipment, repairing various apparatuses, and supporting scientific research. During this research he was employed at Carnegie Mellon University and the University of Chicago. His ventures were not limited to radio wavelength research; he also performed IR and visible light astrophysical measurements. One of the key aspects to working on research in Antarctica is the level of discipline and diverse knowledge required to maintain and repair all of the equipment. Mr. Masterman had to provide a variety of skills to keep systems running, drawing heavily from his experience in RF electronics, machining and operation of heavy equipment.

Prior to his work in scientific research in Antarctica, Mr. Masterman worked in the field of research and development of microwave and RF systems at the National Radio Astronomy Observatory (NRAO). At NRAO he developed low noise cryogenic receiver systems in the K, Ku, C and X bands for telescopes around the world. His receiver systems were used on the 140-foot and the GBT telescopes in Greenbank, WV, the Very Long Baseline Array and the 1000 foot diameter dish at Arecibo, Puerto Rico.

Mr. Masterman also performed developmental work and testing on feed horns and telescopes with structures on the order of 2,700 moving tons. He developed, tuned and tested cryogenic amplifiers in S, C and 800 MHz band of frequency. He was one of the last engineers to work on and maintain a ruby maser amplifier system before it was replaced with a receiver he designed utilizing high electron mobility transistors (HEMT) technology. Mr. Masterman was also responsible for the Cassigrain system on the 140-foot telescope at NRAO, where he assisted astronomers with pointing and calibration, requiring detailed calculations and a thorough understanding of electromagnetic propagation and antenna principles.

While engaged in these scientific and technical ventures, Mr. Masterman worked as a firefighter and EMT in a variety of environments. He has served as an internal structure firefighter, fought forest fires, and provided incident command on a variety of scenes.

From 1990 to 1994, Mr. Masterman worked as a firefighter and EMT for Cass Fire and Rescue, obtaining the position of fire chief during this time. He served as a firefighter for Fawn and Frazer Township in Pennsylvania from 1996 to 1998. When he was stationed in Antarctica, Mr. Masterman was involved in firefighting and on scene command in temperatures surpassing –100 Degrees Fahrenheit. Mr. Masterman has also been in charge of several emergency medical situations. He maintained a certification as an EMT on the national level and spent a number of years working on an ambulance squad in rural regions of West Virginia. During his 1998/1999 deployment to Antarctica, Mr. Masterman managed several medical evacuations and managed the first emergency medical air drop in the history of the South Pole. More notable was his management of one of the world’s most publicized telemedicine operations on one of his staff members, which he executed with precision and confidence. Mr. Masterman is a fire instructor for West Virginia University, instructing in classes such as high angle rescue, basic fire fighting, incident command, and a variety of other courses.

Mr. Mike Masterman obtained a BS in Electrical Engineering and a minor in mathematics from Washington State University where he specialized in electromagnetic theory and wave propagation.

## Publications

- Collection of Infrasonic Sounds from Sources of Military Importance, August 20, 2008, Meeting of the Military Sensing Symposia (MSS) Specialty Group On Battlespace Acoustic & Seismic Sensing, Magnetic & Electric Field Sensors, Michael Masterman; Extreme Endeavors, Qamar A. Shams, Cecil G. Burkett; NASA Langley Research Center, Allan J. Zuckerwar; Analytical Services and Material, Craig Stihler, Jack Wallace; West Virginia Division of Natural Resources
- A Portable Infrasonic Detection System, August 20, 2008, Meeting of the Military Sensing Symposia (MSS) Specialty Group On Battlespace Acoustic & Seismic Sensing, Magnetic & Electric Field Sensors, Qamar A. Shams, Allan J. Zuckerwar, and Cecil G. Burkett; NASA Langley Research Center, Christopher C. Lawrenson; PCB Piezotronics and Michael Masterman, Extreme Endeavors.
- Monitoring and Environmental Microclimate Data Obtained From Studies of Hibernacula Sites within Caves in West Virginia, Proceedings of the National Cave and Karst Symposium, Mike Masterman, Todd Leonhardt, Extreme Endeavors and Consulting, 2005
- Design of a Wearable Electronics Package for Firefighter Monitoring, Proceeding of the Advanced Personal Protective Equipment Conference, Michael F Masterman, Todd D. Leonhardt, Alton G. Dunn, 2005
- Society for Amateur Radio Astronomy Journal, Consideration for design and Construction of Radio Astronomy Receiver Systems, M. Masterman, 1994
- Lonely Planet, Antarctica, Life At The South Pole, M. Masterman, 2000
- NASA, Jet Propulsions Laboratory, Evaluation of Ni-Cad batteries for Extreme Environments, M. Masterman, 2000
- NASA, Jet Propulsions Laboratory, Results from 2000-2001 Season in Antarctica on Autonomous GPS in the Transantarctic Mountains, M. Masterman, J. Keogh, 2000
- National Radio Astronomy Observatory, Design of the 43 GHz (model F110) Front-End, R. Norrod, M. Masterman, June 1991.
- Center for Astrophysical Research in Antarctica, Internal Report, Winter Over Report, Observations at the South Pole and Equipment Requirements for Wintering at the South Pole, M. Masterman, 1995

# CHAPTER REPORT

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Gamma

Mailing Address P.O. Box 727  
Hampden-Sydney College  
Hampden-Sydney, VA 23943

Advisor – Herbert J. Sipe, Jr.

Email Address hsipe@hsc.edu

Current Officers:	name	Email address
President	<u>Benjamin M. Brown</u>	<u>brownbm@hsc.edu</u>
Vice-President	<u>Bryan Greenfield</u>	<u>greenfieldb@hsc.edu</u>
Secretary-	___	
Treasurer	<u>Christopher Arnatt</u>	<u>arnattc@hsc.edu</u>
Other	___	

Current number of members  
student 28 faculty 2pledges N/A active alumni \_\_\_

Frequency of meetings: Monthly

Function or purpose of Meetings:  
chapter business  fund raising  social   
presentations  conference planning  other \_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:  
Guest speakers holding doctoral/medical degrees have been and will be invited to give lectures on research and medicine. Sponsorship of these speakers is the result of cooperation with the Pre-Health Society and more recently, Alpha Chi Sigma professional chemistry fraternity.

Social Activities of Chapter:  
Pizza parties, ice cream socials

Other Chapter Activities:  
Fund raising  
A raffle will be done in November for a gift basket, the benefits of which will go to a local humanitarian organization.  
Trips or other activities  
The opportunity to go to the Science Museum of Virginia to see a lecture as part of the “mini-medical school” series was given to members.

# CHAPTER REPORT

Chapter report for October 2007 through October 2008.

Chapter – Epsilon

Mailing Address Chi Beta Phi c/o John Robinson  
University of Charleston  
2300 MacCorkle Ave. SE  
Charleston, WV 25304

Advisor – Dr. John C. Robinson

Email Address – johnrobinson@ucwv.edu

Current Officers:	name	Email address
President	<u>Tierra Williams</u>	<u>tierrawilliams@cc.ucwv.edu</u>
Vice-President	<u>Katrina Leaprot</u>	<u>katrinaleaprot@cc.ucwv.edu</u>
Secretary	<u>Nikki Epperly</u>	<u>nikkiepperly@cc.ucwv.edu</u>
Treasurer	<u>Adam Corcovilos</u>	<u>adamcorcovilos@cc.ucwv.edu</u>
Historian	<u>Holly Anderson</u>	<u>hollyanderson@cc.ucwv.edu</u>
Recycling	<u>Christopher Thomas</u>	<u>christopherthomas@cc.ucwv.edu</u>

Officers for next year if determined:

President \_\_\_\_\_  
Vice-President \_\_\_\_\_  
Secretary \_\_\_\_\_  
Treasurer \_\_\_\_\_  
Other \_\_\_\_\_

Current number of members

student 38 faculty 1pledges 15 active alumni \_\_\_\_\_

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business  fund raising  social \_\_\_\_\_  
presentations \_\_\_\_\_ conference planning \_\_\_\_\_ community service

Chapter Activities:

Homecoming Car Bash to raise money for chapter

On Campus Recycling

Participated in Recycle Mania in Spring 2008 during which time we recycled more than one ton of plastic and aluminum.

Recycling has continued into this semester

We received a \$3000 grant from JP Morgan Chase to continue recycling this year

Service Activities:

Participated in road-side clean-up at Big Chimney, WV.

Present Science shows for local elementary schools.

Helped with COSI day at St. Agnes elementary.

Biology, Physics, Chemistry tutoring for both high school students and our own colleagues.

Donation to St. Jude's Children's Research Hospital through local radiothon.

Proposed Activities

Kanawha County, WV disbanded its Science fair a few years ago. We are looking at reinstating this opportunity for children.

Beginning a Scientific Journal Club similar to those in graduate schools. Once a month, one or two people would make a short presentation on an article from a scientific peer-reviewed journal. The purpose of this is to ensure knowledge of current events in the scientific community.

Host the second Nunley Conference honoring Dr. Robert Nunley. We will have student and faculty presentations. Hosted in spring semester.

# CHAPTER REPORT

Chapter report for Fall 2007 through Fall 2008.

Chapter – Zeta

Mailing Address Davis & Elkins College  
100 Campus Drive  
Elkins, WV 26241

Advisor – Dr. Shawn Stover

Email Address stovers@davisandelkins.edu

Current Officers:	name	Email address
	President <u>Chris Racine</u>	
	Vice-President <u>Jennifer Hempel</u>	
	Secretary <u>Kristy Ferguson</u>	
	Treasurer <u>Courtney Pawlak</u>	
	Other <u>Heidi Floyd</u>	

Officers for next year if determined:

President	<u>Jennifer Hempel</u>
Vice-President	<u>Adam Williams</u>
Secretary	<u>Lisa Cancglin</u>
Treasurer	<u>Mallory McCartney</u>
Other	—

Current number of members

student 12 faculty 3pledges 7 active alumni \_\_\_

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business  fund raising  social \_\_\_\_\_  
presentations \_\_\_ conference planning \_\_\_ other \_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

NA

Activities relative to the Annual Theme:

NA

Social Activities of Chapter:

NA

Honors Awarded to Chapter Members:

name	honor
<u>Chris Racine</u>	<u>Departmental Achievement Award (chemistry)</u>
<u>Courtney Pawlak</u>	<u>Departmental Achievement Award (chemistry)</u>
<u>Jennifer Hempel</u>	<u>Departmental Achievement Award (biology)</u>
<u>Adam williams</u>	<u>Departmental Achievement Award (biology)</u>

Other Chapter Activities:

Fund raising  
Final Exam Basket

Service to community  
Judged at the Eastern Regional Science Fair (gave two Chi Beta Phi awards for best use of the scientific method); Adopt-A-Highway roadside clean-up

Trips or other activities  
Bodies Exhibit at the Carnegie Science Center in Pittsburgh; Smithsonian Museum in Washington, DC

# CHAPTER REPORT

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Rho

Mailing Address Dr. Aguilar

P.O. Box 296  
West Liberty, WV 26074  
CSC 139

Advisor – Dr. Jarrett S. Aguilar

Email Address

Current Officers:	name	Email address
President	<u>Monica Lee</u>	<u>mlee1@westliberty.edu</u>
Vice-President	<u>Jim Garland</u>	<u>fgarland@westliberty.edu</u>
Secretary	<u>Eric Danhart</u>	<u>edanhart@westliberty.edu</u>
Treasurer	<u>Jason Brown</u>	<u>jbrown@westliberty.edu</u>
Other	—	

Officers for next year if determined:

President	<u>Megan Kopp</u>
Vice-President	<u>Keith Gallagher</u>
Secretary	<u>Nicole Garrison</u>
Treasurer	<u>Jason Brown</u>
Other	—

Current number of members

student 11 faculty 5pledges 9 active alumni —

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business  fund raising  social   
presentations  conference planning  other

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

Monica Lee presented the paper, “AMBER Post-Molecular Dynamics Binding Energy Analysis of Cytochrome P450 2C9 Correlation with Kinetics Data” at the 2007 Chi Beta Phi National Meeting.

Jason Brown and Megan Kopp presented the poster “Computer Modeling of Drug-Drug and Enzyme Interactions” at the Undergraduate Research Day at the Capitol.

Jason Brown and Zach Hartman presented papers at the West Liberty State College Research Competition.

Dr. Aguilar, Monica Lee, Eric Danhart and Megan Kopp attended the 2008 American Chemical Society Meeting.

Eric Danhart, Kayla Saunders, Keith Gallagher, Jason Brown, Megan Kopp, and Jordan McKinney presented posters at the 2008 NIH WV-INBRE Summer Research Symposium.

Jordan McKinney, Matthew McKinney, Nicole Garrison, Eric Danhart, Kayla Saunders, Keith Gallagher, Megan Kopp, and Jason Brown presented posters at the 2008 Summer Undergraduate Research Experience Symposium.

Nicole Garrison presented at the West Virginia Academy of Science, the Southern Division of the American Fisheries Society, and at the First North American Crayfish Symposium.

Activities relative to the Annual Theme:

—  
Social Activities of Chapter:

—  
Honors Awarded to Chapter Members:

All members on the Deans List. Monica Lee- Chapter Key award.

Other Chapter Activities:

Efforts to reactivate a chapter or establish a new one:

—

Fund raising

Candy bar sale. Carnation sale for Valentines Day.

Service to school (include any awards by chapter)

Donated to the science fair held at West Liberty State College. Gave \$50 awards for Most Original project in both the junior and senior categories.

Service to community

—

Trips or other activities

—

Please add any additional information or comments below.

# CHAPTER REPORT

Chapter report for September 2007\_ through September 2008.

Chapter – Kappa Sigma Mailing Address Deborah Zies  
Jepson Science Center  
1301 College Ave.  
Fredericksburg, VA 2240

Advisors – Deborah Zies Email Address [dzies@umw.edu](mailto:dzies@umw.edu)  
Stephen Fuller, Marie Sheckels, Judith Crissman

Current Officers:	name	Email address
President	Sarah Ball	<a href="mailto:sball@umw.edu">sball@umw.edu</a>
Vice-President	Andrew Cox	<a href="mailto:tcoxx1tq@umw.edu">tcoxx1tq@umw.edu</a>
Secretary	Rose Salzberg	<a href="mailto:rsalz4sp@umw.edu">rsalz4sp@umw.edu</a>
Treasurer		
Other	—	

Current number of members  
student 51\_\_ faculty 5\_\_ pledges \_\_ active alumni \_\_

Frequency of meetings: 2 per semester

Function or purpose of Meetings:  
chapter business XX fund raising \_\_ social \_\_  
presentations conference planning XX other \_\_

Honors Awarded to Chapter Members:  
Honor: 2007-2008 Earl G. Insley Chi Beta Phi Scholarships  
Awarded to Rebecca Funkhouser  
Deborah Harpe  
Monica Wu

Other Chapter Activities:

Kappa Sigma hosted the 2007 National Conference in October

# CHAPTER REPORT

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Phi

Mailing Address

Dr. John Hanneken  
University of Memphis  
Dept. of Physics  
Memphis, TN 38152

Advisor – Dr. John Hanneken

Email Address jhannekn@memphis.edu

Current Officers:	name	Email address
President	<u>Sarah Perry</u>	
Vice-President	<u>Amanda Malone</u>	
Secretary	<u>Quynh-Anh Dang</u>	
Treasurer	<u>David Seebeck</u>	
Other	___	

Officers for next year if determined:

President	___
Vice-President	___
Secretary	___
Treasurer	___
Other	___

Current number of members

student \_\_\_ faculty \_\_\_ pledges \_\_\_ active alumni \_\_\_

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business \_\_\_ fund raising \_\_\_ social \_\_\_  
presentations \_\_\_ conference planning \_\_\_ other \_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

17 New members were initiated, typically the initiation ceremony includes a talk by a current science researcher.

# CHAPTER REPORT

Chapter report for August 2008 through October 2008.

Chapter – Alpha Beta

Mailing Address

Dr. Michelle Mabry  
Lenoir-Rhyne University  
Campus Box 7203  
Hickory NC 28603

Advisor – Dr. Michelle Mabry

Email Address- michelle.mabry@lrc.edu

Current Officers:	name	Email address
	President <u>N/A</u>	
	Vice-President <u>N/A</u>	
	Secretary <u>N/A</u>	
	Treasurer <u>N/A</u>	
	Other <u>N/A</u>	

Officers for next year if determined:

President \_\_\_\_\_  
Vice-President \_\_\_\_\_  
Secretary \_\_\_\_\_  
Treasurer \_\_\_\_\_  
Other \_\_\_\_\_

Current number of members

student 0 faculty 3pledges \_\_\_\_\_ active alumni \_\_\_\_\_

Frequency of meetings: none yet this academic year

Function or purpose of Meetings:

chapter business \_\_\_\_\_ fund raising \_\_\_\_\_ social \_\_\_\_\_  
presentations \_\_\_\_\_ conference planning \_\_\_\_\_ other \_\_\_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

\_\_\_\_\_  
Activities relative to the Annual Theme:

\_\_\_\_\_  
Social Activities of Chapter:

\_\_\_\_\_  
Honors Awarded to Chapter Members:

name	honor
_____	_____
_____	_____
_____	_____
_____	_____

Other Chapter Activities:

Efforts to reactivate a chapter or establish a new one:

The chapter bylaws and constitution are being evaluated by the current members. The goal is to make sure the eligibility requirements are rigorous for an honorary society, but will allow students enough time to fully participate. Eligible students will be identified through the registrar's office and will be invited to join. We plan to have new members and officers installed in spring 2009. Dr. Michelle Mabry is the new advisor for Alpha Beta chapter.

Fund raising

\_\_\_\_\_

Service to school (include any awards by chapter)

\_\_\_\_\_

# Chapter Report

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Alpha Delta

Mailing Address

Dr. William J. Pohley  
Franklin College  
101 Branigin Blvd.  
Franklin, IN 46131

Advisor – William J. Pohley

Email Address wpohley@franklincollege.edu

Current Officers:	name	Email address
President	<u>Heather Adams</u>	<u>hadams@franklincollege.edu</u>
Vice-President	<u>Hyder Khatri</u>	<u>hkhatri@franklincollege.edu</u>
Secretary	<u>Emily Baker</u>	<u>ebaker@franklincollege.edu</u>
Treasurer	<u>Jen Pogue</u>	<u>jpogue@franklincollege.edu</u>
Other	___	

Officers for next year if determined:

President \_\_\_  
Vice-President \_\_\_  
Secretary \_\_\_  
Treasurer \_\_\_  
Other \_\_\_

Current number of members  
student 13 faculty 5pledges \_\_\_ active alumni \_\_\_

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business X fund raising \_\_\_ social X  
presentations \_\_\_ conference planning \_\_\_ other \_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

\_\_\_  
Activities relative to the Annual Theme:

\_\_\_  
Social Activities of Chapter:

In the fall 2008 Trip to Bodies: The Exhibition in Indianapolis, followed by lunch.  
Our spring dinner will be this spring as well as an activity.

Honors Awarded to Chapter Members:

name	honor
___	___
___	___
___	___
___	___

Other Chapter Activities:

Efforts to reactivate a chapter or establish a new one:

\_\_\_

Fund raising

Most of our money comes from our Student Congress. We are only required to allow our activities to be open to all members of the student body. Fund raising is discouraged on our campus.

Service to school (include any awards by chapter)

We provide tutors for our Teaching and Learning Center to help other students in the sciences. Our Many of our members, because of their outstanding academic performance, are selected to serve as ambassadors for our admissions, alumni, and development offices.

Service to community

—

Trips or other activities

—

Please add any additional information or comments below.

This spring we had a larger than normal number of students eligible for induction. This is in part due to our lower of the Science required GPA from 3.5 to 3.3. We did this last year in response to a college change a number of years ago instituting a +/- grading system, resulting in an overall lowering of GPAs. Publicity concerning the recognition provided by the graduation cords has resulted in some students even as graduating seniors accepting our invitation.



## Social Activities of Chapter:

Christmas party associated with induction of new members

Refreshments and social time before sponsored presentations which were open to all who attended.

## Honors Awarded to Chapter Members:

<b>name</b>	<b>honor</b>
Larry S. Jennings	Chi Beta Phi Pin & Graduation Honor Cord
Jacob Lilly	Chi Beta Phi Pin & Graduation Honor Cord
Rachel Redick	Chi Beta Phi Pin & Graduation Honor Cord
Sarah Rutherford	Chi Beta Phi Pin & Graduation Honor Cord
Candice Silberschatz	Chi Beta Phi Pin & Graduation Honor Cord
Larry S. Jennings	Graduated
Jacob Lilly	Graduated Cum Laude
Jamie M. Quinn	Graduated Cum Laude
Rachel Redick	Graduated Magna Cum Laude
Sarah Rutherford	Graduated
Candice Silberschatz	Graduated Summa Cum Laude
Ian Thomas Smith	Graduated
Trilce S. Townsend	Graduate Cum Laude
Trilce S. Townsend	Chisler Science and Mathematics Scholarship
Jacob Lilly	First Community Bank/WVIAC Senior Scholar Athlete
Candice Silberschatz	First Community Bank/WVIAC Senior Scholar Athlete (Two were honored from each WVIAC college.)
Lori Ware	Fine Arts Department Academic Achievement Award— GSC Honors Convocation
Jacob Lilly	Science and Mathematics Department Academic Achievement Award—GSC Honors Convocation
Candice Silberschatz	Science and Mathematics Department Academic Achievement Award—GSC Honors Convocation
Jacob Lilly	Best Undergraduate Research Poster at the 83 <sup>rd</sup> Annual Meeting of the West Virginia Academy of Sciences
Jacob Lilly	All-conference in football for junior and senior years Team captain for football senior year
Jacob Lilly	Accepted into WVU School of Pharmacy
Sarah Rutherford	Accepted into WVU School of Pharmacy
Candice Silberschatz	Accepted into a graduate program in Mathematics Education at Tufts University; received a substantial fellowship award.

## Other Chapter Activities:

**Efforts to reactivate a chapter or establish a new one:**

None

**Fund raising:**

The Chapter had two major fund raising projects: (1) We distributed coupons for Pizza Hut and received 15 % of purchases by those who turned in coupons on the evening advertised; (2) We had a Valentine's Day Rose Sale. Both were very successful.

**Service to school (include any awards by chapter)**

Received Outstanding Chapter Award at 2007 Chi Beta Phi National Conference

Our presentations were advertised and open to the campus community.

The Chapter assisted the ACS chapter in providing refreshments for some other department wide presentations and other science presentations were advertised to Chi Beta Phi members.

**Service to community:**

Our presentations were advertised in local media and open to the public. As a result of this advertising, Professor O'Dell was contacted by BBC for an interview related to his topic.

**Trips or other activities:**

None

**Please add any additional information or comments below.**

The Chapter adopted an attendance and participation policy for members to qualify for pin and honor cords paid for from the Chapter treasury. [This policy was initiated by the active student members of the Chapter.]

Much of our chapter activity since January 2008 has been devoted to fund raising and preparation for hosting the National Conference on October 18, 2008.

See next two pages for information on sponsored presentations:

**-Maintaining your personal computer to run at top speed.**

Additional information

- Online downloading and browsing safety rules.
- Keep your computer files and identity private.
- How to use your @glenville.edu e-mail account to save \$ on your next computer purchase.

**Personal Computer Maintenance Presentation**

**TUESDAY, OCTOBER 23**

**5:30 P. M.**

**ROOM 201 CLARK HALL**

**Sponsored by Chi-Beta-Phi**

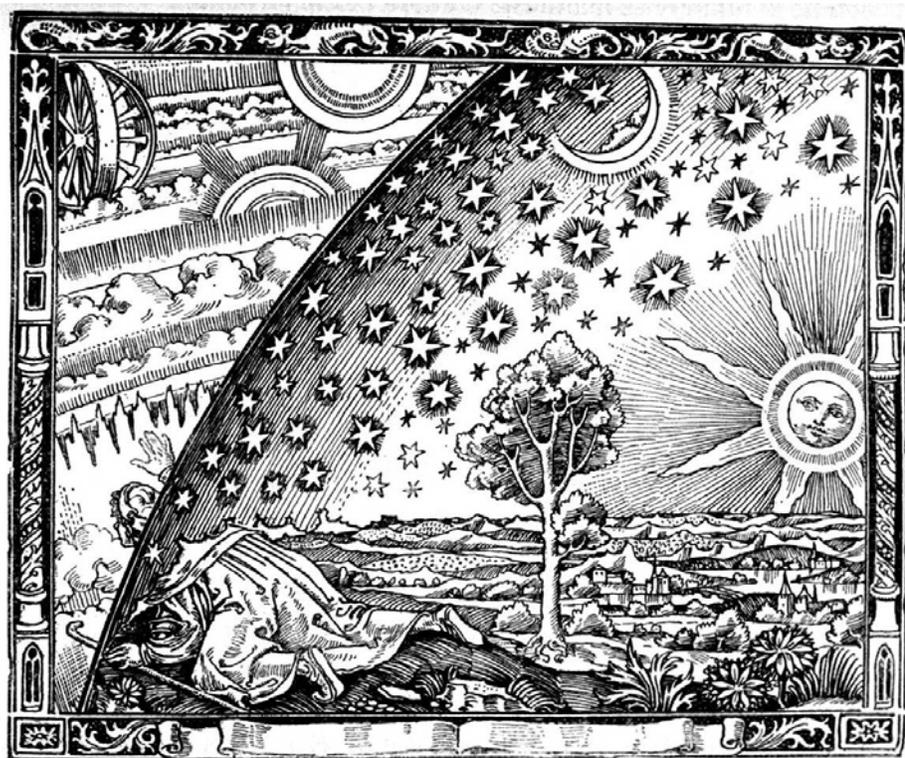
**Presented by Larry R. Baker**



Glenville, WV—Glenville State College Associate Professor of Mathematics, Dr. David O’Dell, will be speaking on “Falling Off the Edge: Myths and Misconceptions about the Flat Earth” on Tuesday, November 27 at 5:30 p.m. in Clark Hall Room 101.

Of all the myths and misconceptions regarding science and history, perhaps none is as widespread as the tale of Columbus proving to the flat-earthers that the earth is spherical. While there have been, and will likely always be, those who believe in a flat earth, the concept of a spherical earth has been around for 2500 years. This lecture will illustrate the reasoning and calculations of the early philosophers who described a spherical earth while examining the origins and perpetuation of the myth that contemporaries of Christopher Columbus believed in a flat earth.

The lecture is sponsored by the GSC chapter of Chi Beta Phi as one of their community service projects and is free and open to the public. Everyone is invited to a reception at 5:00 p.m. prior to the lecture. For more information, call (304) 462-7361 ext. 7300.



# CHAPTER REPORT

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Alpha Xi

Mailing Address St. Francis College  
Dept. of Biology  
180 Remsen St.  
Brooklyn Heights, NY 11201

Advisor – Dr. James Corrigan

Email Address bugman38@hotmail.com

Current Officers:	name	Email address
President	<u>Brian Neuner</u>	
Vice-President	<u>Anthony Zaccheo</u>	
Secretary	<u>Meltem Ates</u>	
Treasurer	<u>Arjon Bala</u>	
Other	—	

## Membership:

19 new members were inducted on March 14, 2008. Graduation in May 2008 saw 18 members leave St. Francis for additional studies on the graduate school and professional school levels. A second induction ceremony was conducted on June 27, 2008 with 12 new members added to the Alpha Xi Chapter.

Frequency of meetings: Monthly

## Function or purpose of Meetings:

chapter business \_\_\_ fund raising \_\_\_ social \_\_\_  
presentations \_\_\_ conference planning \_\_\_ other \_\_\_

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

\_\_\_  
Activities relative to the Annual Theme:

\_\_\_  
Social Activities of Chapter:

\_\_\_  
Honors Awarded to Chapter Members:

name	honor
___	___
___	___
___	___
___	___

Other Chapter Activities:

Considerable discussion of qualifications for membership have occurred this year. The guidelines for application and membership have been maintained for more than 30 years. The guidelines of the Alpha Xi Chapter are a total GPA of 3.00 and a major GPA of 3.00. The candidate must have completed two years of chemistry courses (general and organic chemistry) and two years of biology courses (general and advanced). These guidelines require that the student candidate at St. Francis complete 36 credits of coursework. These guidelines were established jointly between the Honorary Members and the student membership in 1978. These requirements are published in institution literature, student publications, the institutional website and finally with ample posters throughout the campus. Student applicants have an application period of three weeks, however students frequently delay application well beyond the stated deadline. Additionally, there is another two weeks or more before the applications are forwarded to the National Chapter.

This year at the June 27 induction ceremony Honorary membership was accorded Dr. Frank J. Macchiarola, the retiring President of St. Francis College. Dr. Macchiarola was recognized for his significant contributions to the development of the curriculum and equipment of the Biology Department and his life long support of Franciscan education.

Sadly, this year saw the loss of Dr. John M. Burke, former Director of the Science Division and Chairman of the Chemistry Department. Dr. Burke was one of the founding Honorary Members of the Alpha Xi Chapter. He was a 1940 alumnus of the College and taught at St. Francis for 62 years. He provided a strong, solid education for hundreds of young men and women. He was responsible for the development and acquisition of NSF funding for the erection of the Science Building in 1968. He actively sup-

ported the development of Chi Beta Phi in 1968-1969 and asked me to take on the role of moderator. He will sadly be missed by one and all.

There are plans developing for the 40<sup>th</sup> anniversary of the Chi Beta Phi, Alpha Xi Chapter at St. Francis College. We will be attempting to have some activity connected with the men's and women's basketball games during the months of either January or February.

Respectfully submitted,  
James E. Corrigan, PhD  
Professor, Biology Department  
Moderator, Chi Beta Phi

# CHAPTER REPORT

Chapter report for Oct. 2007 through Oct. 2008.

Chapter – Alpha Rho

Mailing Address Dr. Han Chuan Ong

Lyon College  
2300 Highland Road  
Batesville, AR 72501

Advisor – Han Chuan Ong

Email Address hong@lyon.edu

Current Officers:	name	Email address
President	<u>Ryan Harness</u>	<u>rh9583@lyon.edu</u>
Vice-President	<u>Avril Parker</u>	<u>ap9690@lyon.edu</u>
Secretary	<u>Jordan Lupo</u>	<u>jl4610@lyon.edu</u>
Treasurer	<u>Melissa Kuehl</u>	<u>mk1153@lyon.edu</u>
Other	<u>—</u>	

Officers for next year if determined:

President —  
Vice-President —  
Secretary —  
Treasurer —  
Other —

Current number of members

student 9 faculty 1pledges — active alumni —

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business  fund raising  social   
presentations  conference planning  other

Presentations, lectures, seminars, etc. attended or as part of chapter meeting:

We are in the process of revitalizing our chapter after a few years of dormancy.

Activities relative to the Annual Theme:

—  
Social Activities of Chapter:

Monthly lunch meetings.

Participation in Science and Math convocation lectures.

Serve as judges in area high school science fair.

Honors Awarded to Chapter Members:

name	honor
<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>

Other Chapter Activities:

Efforts to reactivate a chapter or establish a new one:

—

Fund raising

Submitting grant proposals to our Student Government Association. Funds will be used to invite speakers and for one science-related field trip.

Service to school (include any awards by chapter)

—

Service to community

High school and middle school science fair judges.

Trips or other activities

—

Please add any additional information or comments below.

We plan to attend the 2009 conference and are in the process of initiating about 15 new members.

# Chapter Report

Chapter report for Sept. 2007 through Sept. 2008.

Chapter – Alpha Sigma

Mailing Address Molloy College  
1000 Hempstead Avenue  
P.O. Box 5002  
Rockville Centre, NY 11571

Advisor – Anthony Tolvo, Ph.D.

Email Address atolvo@molloy.edu

Officers: (Sept. 2006-Sept. 2007)

President Thomas Coppola  
Vice-President Terry Eylers  
Secretary/Treasurer Patricia Hennessy

Officers (Sept. 2007-Sept. 2008):

President Kelli Pecora  
Vice-President Candice Petersen  
Secretary/Treasurer Bishay Faris

Current number of members

student 14 faculty 10 pledges \_\_\_ active alumni 8

Frequency of meetings: Monthly

Function or purpose of Meetings:

chapter business  fund raising  social   
presentations  field trips

As part of Chapter meetings:

Discussions and readings on a variety of scientific topics including environmental biology, conservation, preservation of wetlands, ocean pollution.

Student membership in MACUB (Metropolitan Association of College and University of Professors), student membership in SPLASH, a local environmental group.

Participation in co-sponsored activities with the Pre-Med Club.

On Campus Activities:

Chapter members participated as facilitators in the Molloy Science Fair in March, 2007 and March, 2008. This year the Molloy College Science Fair, under the direction of Dr. Dennis Jackson, and with the able assistance of Dr. Christopher Masone (also Alpha Sigma members) achieved its greatest number of Freshman and Lophomore High School participants than in previous years.

“Healthy Snack” sale conducted for the Science Fair participants to raise money for the Orca project and other chapter expenses. Chapter members participated, along with our Pre-Med Club, in “Operation Iraqi Children,” for the second year in an effort to provide school supplies to needy children in Iraq. Over 200 “school kits” were donated and sent to Iraq.

Chi Beta Phi members participated with the Pre-Med Club in a drive to supply wounded soldiers in Iraq with necessities. The Molloy community donated over 100+ pairs of flip flops, 50+ packages of underwear, 50+ pairs of pajamas, well wishes from a religious education class and multiple other items for our US injured soldiers in Iraq.

Project Green Sneaker Recycling Program

Project Green Magazine Recycling Program

Club Carnival Day at Molloy College

Leif Hazelwood, Candice Petersen, and Bishay Faris delivered presentations at our Spring Science Colloquium (April, 2008).

Off Campus Activities:

Attended workshops and symposia on environmental conservation, gene therapy and cancer at the Metropolitan Association of College and University Biologists 40<sup>th</sup> Annual Conderence at Saint John’s University, Queens, NY.

We will participate in the Annual New York State Beach Cleanup, sponsored by the Northeast Chapter of the American Littoral Society in September, 2008.

Participating in Operation Splash, a Long Island marine environmental group during the Summer and Fall, 2008.

Represented Chi Beta Phi and Molloy College at the Harlem Science Fair, NY, NY in September, 2007 (and in September, 2008).

Sponsored several field trips to "Bodies: The Exhibition," at the South Street Seaport, NYC, for the Molloy College Community (Dr. Tolvo and Dr. Pamela Monaco of Molloy College are ongoing volunteer guides at the exhibit).

Activities relative to annual theme for our Chapter: Environmental Conservation:

We renewed our support of Orca research through our donation to the Whale Museum in Friday Harbor, WA.

We are planning another trip to the Norman Levy Park and Preserve (originally the Merrick, NY landfill), now a shoreline wild-life/conservation facility. We also are planning summer and fall trips to the Lido Beach Preserve in Nassau County, LI, NY (additional reclaimed acreage) in the Fall of 2008.

We will participate in the Meadowbrook BioBlitz, and will assist in cataloging flora and fauna in three geographically related preserves in Nassau County on Long Island.

Social Activities of the Chapter:

6 new members were inducted, with pride, into Alpha Sigma Chapter at a special ceremony prior to Honors Convocation on April 22, 2008. Macela Chavez, Sheree Desmoulins, Leif Hazelwood, Lindsay Murano, Michelle Soccodato, Michele Vigliotti.

Honors Awarded to Chapter Members (Honors Convocation/Graduation, 2008):

Kelli Pecora received First Honors in Biology and was the recipient of the Helene S. Bell Valedictorian Award for the 2008 Commencement, May, 2008. Candice Petersen received Honorable Mention for Excellence in Biology. Both graduated Summa Cum Laude.

Our Chi Beta Phi members also gave enthusiastic service to the Molloy Community through:

ACE (Academic Enrichment) and other tutoring programs

Pre-Med Club participation

Molloy College Open Houses

Blood Drives

Molloy Student Government

Freshman Orientation

Respectfully submitted,

Anthony Tolvo, Ph. D.

Moderator, Alpha Sigma Chapter

**Report of the President**  
**Dr. Michelle Mabry**

This year I have been in the process of changing positions so I have been busy passing the reigns of advisor to Zeta at Davis and Elkins College to the very capable Dr. Stover and getting Alpha Beta at Lenoir-Rhyne College up and running after a period of inactivity.

**Report of the Vice President**  
**Dr. William J. Pohley**

This past year we purchased our own web domain so we are now, [www.chibetaphi.org](http://www.chibetaphi.org). Currently this address simply points you to the old web page. After conference I will work to have the site moved but I didn't want to attempt it before conference since the site gets the most hits right before conference and I was afraid there would be "down time" during the transfer.

I was contacted by and have been working with, Experience.com a career website in developing a Chi Beta Phi portal into their site. This could be a tremendous asset to Chi Beta Phi members for both getting initial jobs but also throughout their career. They are partnered with a variety of job and internship websites. They also provide informative articles and portfolio building tools. We can control the content of the portal page so that we could make announcements, etc on this page.

I pursued the opportunity with Experience.com because I continue to believe that expansion is the only hope for continued viability of Chi Beta Phi National Honorary. To help with this goal of growth I have met with a number of graphics companies to discuss promotional pieces. I feel we need more eye catching literature to distribute if we want to attract new chapters.

Later at this conference I hope to demonstrate the Experience.com website and show everyone some examples of literature.

Respectfully submitted,

W.J. Pohley  
October 18, 2008

**Report of the Secretary**  
**Mr. Paul Peck**

This year I have been in communication with the other National Officers preparing to host this year's National Conference. I would like to recognize the work of associate advisor Larry Baker for all the work he has done in preparation for the conference. I would also like to recognize the efforts of our student members in preparing for this conference.

Presented  
October 18,2008

## **Report of the Treasurer**

### **Mr. C. T. Meadors**

This report covers the period from September 2007 thru September 2008. Itemized figures will be found in the accompanying financial statement.

The treasury remains stable and is still growing. However, the financial itemization will show a decrease in our net gain as compared to the previous year. There are presently no outstanding debts, all being paid in a timely manner. The annual IRS report was completed and submitted and was found satisfactory. We continue our tax-free status. I assume our affiliate membership in the AAAS continues. Jewelry and honor cords remain available from the Treasurer at cost. A major debit item was the need to reorder both jewelry and cords. The pins increased slightly by \$1.00 per pin and our now \$27.80 each. Honor cords remain at \$6.95 per set. I continue to recommend providing jewelry and cords at cost and not for profit. One debit item has been the increased cost of mailing and shipping. It was suggested to me at the 2007 conference that perhaps we should begin adding a small surcharge to cords and jewelry to help defray mailing costs. I am not suggesting we do that at this time but will leave the future possibility of this for the future.

The major debit items continue to be grants/awards and the reimbursement of travel. I recommend the continuation of these disbursements as they continue to be supportive of our members and of Chi Beta Phi.

Two concerns expressed in previous years were the failure of the expansion program and the decrease in new memberships. The former concern remains as no responses have yet been received. The latter concern, however, has been lessened to some degree by the number of new memberships holding steady. There was an increase of two new memberships this year as compared to the previous year.

I continue to consider it an honor and pleasure to serve as your Treasurer. Any suggestions, concerns, ideas, or needs will be welcomed. If it is so deemed to nominate me for this office by this conference for another two years, I would accept with honor.

Respectfully submitted October 18, 2008

Carl T. Meadors

Financial Statement

Chi Beta Phi

September 2007 thru September 2008

Citizens Bank, Morgantown, WV (Savings)

September 2007	\$6,983.19
Interest	82.19
September 2008	\$7,065.38

Huntington Banks, Charleston, WV (Checking)

Beginning Balance September 2007	\$31,737.91
New Deposits:	
Memberships (152)	3,800.00
Jewelry, Cords	<u>2,281.45</u>
Income Total	6,081.45
Subtotal	\$37,819.36
Disbursements:	
Checks # 1072 – 1099	\$ 3,988.10
<b>Closing Balance September 2008</b>	<b>\$33,831.26</b>
<b>Total Assets as of September 2008</b>	<b><u>\$40,896.64</u></b>
Net Gain for 2008	\$ 2,175.54
Net Gain for 2007	2,588.97
Difference in Gain	- 413.43

Respectfully Submitted by the Treasurer, C.T. Meadors  
October 18, 2008

## **Committee Reports**

### **AWARDS COMMITTEE**

#### Host Chapter Award

Alpha Iota  
Glenville State College  
Glenville, WV

#### Blackwell Distance Award

Kappa Sigma  
University of Mary Washington  
Fredericksburg, VA

#### Outstanding Chapter Award

Epsilon  
University of Charleston  
Charleston, WV

#### National Key Award

Christopher Kent Arnatt  
Gamma  
Hampden-Sydney College  
Hampden-Sydney, VA

#### Most Improved Chapter Award

Gamma  
Hampden-Sydney College  
Hampden-Sydney, VA

### **PRESENTATIONS COMMITTEE**

#### Best Presentation Awards

1<sup>st</sup> - Tierra Williams, Epsilon, University of Charleston,  
Charleston, WV

2<sup>nd</sup> - Justin Neal, Alpha Iota, Glenville State College, Glenville, WV

3<sup>rd</sup> - Keith Gallagher, Rho, West Liberty State College, West Liberty, WV

### **ELECTIONS COMMITTEE**

The slate presented and unanimously approved was:

President — Bill Pohley, Alpha Delta

Vice President — Michelle Mabry, Alpha Beta

Treasurer — C.T. Meadors, Epsilon

Secretary — Jarrett Aguilar, Rho

Historian / Marshall — Jennifer Boyle, Zeta

## Presentations, Abstracts

Retinoic Acid Induced RAR and RXR mRNA Expression and Responsiveness in Human Melanocytes and Various Stages of Melanoma.

**Adam Hackney**<sup>†</sup>, Sarah Miles<sup>1</sup>, Jun Fan<sup>1</sup>, and Richard M. Niles<sup>1</sup>.

University of Charleston<sup>†</sup>, Charleston WV and the Department of Biochemistry and Microbiology at Joan C. Edwards School of Medicine-Marshall University<sup>1</sup>, Huntington WV.

Retinoids (Vitamin A [retinol] compounds and its derivatives) are a group of essential signaling molecules necessary for growth, proliferation, and differentiation of a number of cell types. The physiological actions of retinoids are primarily mediated by retinoic acid receptors (RAR  $\alpha, \beta, \gamma$ ) and retinoid X receptors (RXR  $\alpha, \beta, \gamma$ ). In melanoma, the deadliest of skin cancers in humans, retinoids seem to lose their regulatory effects. Some of this loss of regulatory effect may in fact be due to loss of functional retinoid receptors in melanoma cells (Estler et al 2007). To test this hypothesis we subjected four primary cell lines (HEMn-LP (normal human melanocytes), SbCl2 (radial growth phase), WM1366 (vertical growth phase), and WM9 (metastatic phase)) to treatment with retinoic acid (primary active metabolite of retinol) and determined the induction of RAR receptor mRNA expression, as well as quantifying the relative responsiveness of RAR receptors in these cell lines by transfecting cells with a luciferase plasmid containing a retinoic acid response element (RARE). Upon activation of the RAR by retinoic acid, the luciferase protein would be cooperatively produced. Relative luminescence then becomes a convenient method to measure activity of the receptors. With RA treatment, normal melanocytes show an approximate 900 fold increase in RAR activation, while SbCl2, WM1366, and WM9 cells only show a 0.2-2.6 fold increase. After 24 hours of retinoic acid treatment, we see a similar decrease of RAR transcription in melanoma cells by evaluation with real time RT-PCR. Normal melanocytes demonstrate up to a 10 fold increase in mRNA levels of RAR, while the melanoma lines show 0.9-2.8 fold increases in receptor mRNA expression. These results support the hypothesis that melanoma cells lose retinoid responsiveness in part due to a decreased induction in mRNA levels of RAR retinoid receptors, and in part due decreased responsiveness of the RAR receptor in these cell lines.

## Presentations, Abstracts

S-ADENOSYLMETHIONINE (SAME) REVERSAL OF ACETAMINOPHEN (APAP) EFFECTS ON HEPATIC GLUTATHIONE PEROXIDASE AND HEPATIC SAME LEVELS. **Williams, Tierra<sup>2</sup>**; Brown, J. Mikel; Ball, John G.; Hogsett, Amy<sup>1</sup>; Valentovic, Monica<sup>1</sup>

1. Pharmacology, Physiology and Toxicology, Marshall University

School of Medicine, Huntington, WV, USA.

2. University of Charleston, Charleston, WV, USA.

Overdose of the over the counter analgesic acetaminophen (APAP) is associated with hepatic damage. Previous work from our laboratory and by others have shown that S-adenosyl-L-methionine (SAME) is protective for APAP induced hepatotoxicity. This study tested the hypotheses that: 1) SAME reduces APAP mediated oxidative stress by maintaining glutathione peroxidase activity and 2) SAME treatment prevents APAP mediated decline in total hepatic SAME levels. Male C57BL/6 mice (16-25 g) were randomly divided into 4 groups (n=5/ group): Vehicle (VEH), SAME, APAP and SAME+APAP. Mice were fasted overnight, injected intraperitoneal (ip) with water (VEH; 5ml/kg) or 250 mg/kg APAP (15 ml/kg) followed 1h later by ip injection of 1.25 mmol/kg SAME. Plasma and liver were collected 4 or 6h after APAP administration. SAME treatment did not alter hepatic function as plasma ALT and liver weight (wt) were comparable to VEH values. APAP administration increased plasma ALT levels and hepatic liver wt. when compared to VEH and SAME groups confirming hepatic toxicity. Hepatic glutathione peroxidase activity was diminished ( $p < 0.05$ ) 4 and 6 h after APAP injection compared to VEH. APAP mediated decline in hepatic glutathione peroxidase activity was partially corrected at 4 hr in the SAME+APAP when compared to the APAP treated mice. Total hepatic SAME levels were diminished 4 h after APAP treatment when compared to the VEH and SAME groups. Depletion of total hepatic SAME levels was prevented in the SAME+APAP group. These findings indicate that SAME partially protects the liver from APAP induced oxidative stress and depletion of hepatic SAME levels.

(Supported by NIH Grant 5P20RR016477 to the West

Virginia IDeA Network for Biomedical Research Excellence).

## Presentations, Abstracts

**Binding Energies of Various Effector Molecules in the Presence of Flurbiprofen in an Oxoheme. Keith Gallagher, Monica R. Lee** West Liberty State College, West Liberty, WV

Cytochrome P450 2C9 metabolizes xenobiotics in various organisms. The binding energy for 2C9 predicts activation or deactivation of substrate metabolism by this enzyme, provided the energies can be correlated to known kinetics data. In this study, known activators and deactivators were modeled with cytochrome P450 2C9 built with an oxygenated heme to more closely resemble the natural environment, and dynamics were run. The trajectory outputs were analyzed for the corresponding binding energy using the AMBER post-molecular dynamics binding energy analysis. Using a mathematical process, the binding energy was calculated for each system. The energy values were graphed against percent activation of flurbiprofen. Previous studies suggest the activator systems graphed thusly are linear when docked in the deoxygenated heme. The systems docked in the enzyme containing oxoheme also show a linear correlation amongst activators. This is not seen among deactivators, suggesting different binding modes for activators and deactivators.

*This publication was made possible by NIH Grant Number 2P20 RR016477 from the INBRE Program of the National Center for Research Resources.*

## Presentations, Abstracts

# A Survey of the Depth Related Soil Microbial Diversity of the Yellow River Delta by Plate Counting

Benjamin M. Brown<sup>1</sup> , Zhenyu Wang<sup>2</sup>

1. Departments of Biology and Chemistry, Hampden-Sydney College, Hampden-Sydney, VA 23943, USA. Email: [BrownBM@hsc.edu](mailto:BrownBM@hsc.edu) 2. College of Environmental Science and Engineering, 238 Songling Road, Qingdao, Shandong Province, 266100, China, Email: [wang0628@ouc.edu.cn](mailto:wang0628@ouc.edu.cn)

### Abstract

The microbial diversity of the Yellow River Delta is not well studied. The work presented here investigated the depth-related changes of overall microbial communities and related their distribution in the Delta with the biogeochemical properties of the soil during the spring. The Yellow River, depended upon by over 140 million people<sup>9</sup> for fresh water and resources, terminates in the northeastern part of China where it runs into the Bohai Gulf forming the Yellow River Delta. As a habitat for many species of plants and birds, this ever expanding wetland is of high scientific and ecological significance<sup>17</sup>. Microbial analyses were carried out on field moist sub-samples, and physiochemical analyses were performed on air dried sub-samples. There was a significant polynomial relationship between soluble salt content and the total number of microbes as well as the fluorescein diacetate (FDA) hydrolysis rate of culturally viable microbes. It was also noted that bacteria were the dominant microbe in all areas and depths.

## Presentations, Abstracts

### Rings of Prime Power Order

**Justin Neil**, Natalie White  
Glenville State College  
Mathematics  
Paul Peck – Advisor

The purpose of this research was to develop an efficient approach to constructing and computing abstract addition and multiplication tables for finite rings. This project was derived from a paper written by Michael Lin entitled “Rings of Small Order.” Along with his findings, he developed a computer program written in IBM PC assembly language which produced multiplication tables for each ring, the total number of rings generated, and the first  $n-1$  powers of each element for each ring. We developed a more proficient computer program which allows us to further investigate larger finite rings and other properties such as methods to classify rings.

For the purposes of this research, we have concentrated upon rings whose additive groups may be expressed as the direct product of two cyclic groups of prime power order. Thus  $(R, +) = C_m \times C_n$ , where  $m$  &  $n$  are powers of a prime  $p$ . Then  $R = \{(a,b): a \in C_m, b \in C_n\}$ .

The basis for  $R$  contains two elements, which we will write as  $x$  &  $y$ .

Since every element in  $R$  is a linear combination of  $B$ , every product in  $R$  is defined by the products of the elements in  $B$ . For the rings in which we are interested, where  $B = \{x, y\}$ , we must define four basis products:  $x*x, x*y, y*x, y*y$ .

The program we developed accepts input consisting of  $m$  &  $n$ , the orders of the factor rings of  $R$ . The program then outputs a list of strings consisting of every possible valid combination of values for the basis products. Tables may then be generated for any string, or a master table generated for all strings.

## Presentations, Abstracts

Heuristic Algorithm for the Robust Classification of Water Molecules  
in Putative Protein Binding Sites

J. Andrew Surface

Department of Chemistry, Hampden-Sydney College &  
Institute of Structural Biology and Drug Development, Virginia  
Commonwealth University (Read by **Benjamin Brown**)

Virtual structure-based drug design has been used to model  
protein-ligand docking for the purposes of discovering and developing new proteomic drugs  
for the past several years by numerous drug companies and research labs.

One of the problems in building these drug models has been factoring the influence of wa-  
ter into the drug binding schema. Water has been confirmed to be a significant factor in  
drug efficacy models and in some cases the only factor in preventing a particular drug  
species from being reactive with its target protein. In this study, a statistical system  
that is the basis for a fast modeling algorithm is built. It enables the fast identifica-  
tion of water molecules in protein binding sites that are likely to be problematic in any  
ligand-protein interaction model. Using two previously validated water classification  
methods, Rank and HINT Score.

Water molecules in several different proteins were analyzed and predicted correctly with  
an accuracy of 86% using the developed algorithm, a value that was not only consistent  
across other test proteins but improved with better x-ray crystallography data. This  
mathematical system was programmed and added into the HINT plugin in the molecular model-  
ing program called Sybyl, a plugin and program used by thousands of medicinal chemistry  
labs and pharmaceutical companies around the world.

## XBP Chapters and Advisors 2008

Active	Chapter	Year	Address	Region	Advisor	Communication
Yes	Alpha	1916	Randolph-Macon College Ashland, VA 23005	I	Dr. Nora Green	ngreen@rmc.edu
Yes	Gamma	1921	Hampden-Sydney College Dept. of Chemistry Box 727 Hampden-Sydney, VA	I	Mr. Herb Sipe	(804) 223-6283 Fax (802) 223-6374 <a href="mailto:hsipe@hsc.edu">hsipe@hsc.edu</a>
Yes	Epsilon	1923	University of Charleston 2300 MacCorkle Ave. SE Charleston, WV 25304	II	Dr. John Robinson, M.D.	(304) 357-4792 <a href="mailto:johnrobinson@ucwv.edu">johnrobinson@ucwv.edu</a>
Yes	Zeta	1925	Davis & Elkins College Dept. of Biology 100 Campus Dr. Elkins, WV 26241	II	Ms. Shawn Stover	<a href="mailto:stovers@DavisandElkins.edu">stovers@DavisandElkins.edu</a>
No	Kappa	1925	Marshall University Dept. of Biology Huntington, WV 25701	II	Dr. Frank Gilliam	(304) 696-3636 <a href="mailto:gilliam@marshall.edu">gilliam@marshall.edu</a>
Yes	Rho	1935	West Liberty State College Arnett Hall West Liberty, WV 26074	II	Dr. Jarrett Aguilar	<a href="mailto:jaguilar@westliberty.edu">jaguilar@westliberty.edu</a>
No	Theta Sigma	1941	Limestone College Gaffney, SC 29304	I	Mr. Bill Sutton	
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Yes	Phi	1947	University of Memphis D2Dept. of Physics Memphis, TN 38152	IV	Dr. John Hanneken	(901) 678-2417 <a href="mailto:jhannekn@memphis.edu">jhannekn@memphis.edu</a>
Yes	Chi	1948	Columbia College Columbia, SC 29203	I	Dr. Scott Smith	(803) 786-3773 Fax (803) 786-3771 <a href="mailto:scsmith@colacoll.edu">scsmith@colacoll.edu</a>
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Yes	Alpha Beta	1952	Lenoir-Rhyne College Dept. of Biology Box 7277 Hickory, NC 28603	I	Dr. Michelle Mabry	Michelle.Mabry@lrc.edu
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No	Alpha Eta	1956	Newberry College Dept. of Science Newberry, SC 29108	I	Dr. Charles Horn	(803) 276-5010 <a href="mailto:chorn@newberry.edu">chorn@newberry.edu</a>
Yes	Alpha Iota	1964	Glenville State College Glenville, WV 26351	II	Mr. Paul Peck	(304) 462-7361, ext. 7310 Fax (304) 462-4407 <a href="mailto:Paul.Peck@glenville.edu">Paul.Peck@glenville.edu</a>
No	Alpha Kappa	1964	Athens State College Athens, AL 35611	IV		
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Yes	Alpha Pi	1970	Univ. of Rio Grande Rio Grande, OH 45674	II	Dr. Bill Stitt	(704) 245-7240 <a href="mailto:wstitt@rio.edu">wstitt@rio.edu</a>
Yes	Alpha Rho	1973	Lyon College 2300 Highland Rd. Batesville, AR 72501	IV	Dr. Han Chuan Ong	<a href="mailto:hong@lyon.edu">hong@lyon.edu</a>
Yes	Alpha Sigma	1974	Molloy College 1000 Hempstead Ave. Rockville Centre, NY 11570	III	Dr. Anthony Tolvo	(516) 678-5000, ext. 6125 Fax (516) 255-4816 <a href="mailto:atolvo@molloy.edu">atolvo@molloy.edu</a>
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Yes	Alpha Upsilon	1984	Shenandoah University Dept. of Natural Science 1460 University Dr. Winchester, VA 22601	I	Dr. Juanita Emswiler	(540) 665-4547 Fax (540) 665-4644 <a href="mailto:jemswile@su.edu">jemswile@su.edu</a>