

Chesapeake Chemist

*Maryland Section
American Chemical
Society*



April Speaker:

~Mr. Mark Profili~

Director, Forensic Chemistry/Science Programs, Towson University

“Forensic Chemistry and Forensic Science Programs
at a Metropolitan University”

Sunday, April 15th, 2007 - Dinner Meeting - [Burkshire Marriott in Towson](#)

April 2007

Volume 63, Number 7

Message from the Chair

By: Stephanie S Watson

April is the month for the Student Awards Meeting. Carl Minnier initiated this award program, formally at Essex, now retired, more than twenty years ago. Through his efforts, students from community colleges as well as four-year colleges and universities are honored for their efforts in chemistry. The student awards are an incentive for students' hard work in chemistry classes.

For me, chemistry classes and laboratory instruction in my undergraduate college, The College of Wooster, really steered me toward graduate school in chemistry and my focus in analytical chemistry. It was the professors and their various teaching styles that taught me all the disciplines of chemistry and made me want to work hard in my classes. I am very grateful for this experience.

Please consider joining us at the Student Dinner Awards on Sunday, April 15th at the Berkshire Marriott to recognize current student achievements.

April Dinner Meeting - Student Awards Dinner

Sunday, April 15th at the [Berkshire Marriott in Towson](#)

1:00-1:30 pm	Registration and networking on the third floor.
1:30-2:30 pm	Buffet dinner for 110+ people.
2:45-4:00 pm	Awards and the guest speaker: Mr. Mark Profili Director, Forensic Chemistry / Science Programs Towson University "Forensic Chemistry and Forensic Science Programs at a Metropolitan University" ~Question and Answer (10 minutes)~

Parking is in the Basement

Price: Members \$25; Retired Members and Guests \$20; Students who are not Awardees \$10.
Student awardees are free.

Contact: Dr.shah@juno.com or 410-323-0803

Directions to Marriott in Towson:

10 W. Burke Avenue
Towson, Maryland 21204
410-324-8100

- From the Baltimore beltway, I-695, follow to exit 27, Dulaney Valley Road.
- The Berkshire is on the left side as you enter Burke Ave. (18-story building). Meeting attendees should proceed to the left lane. Turn left into the Berkshire's parking entrance. Turn the corner and make an immediate right into the P2 parking garage.
- (You may have to press the intercom button for admittance to the elevators.)
- Proceed to the front desk to get a parking pass required for your car.
- Look for signs posted in the lobby and elevators to locate the dining room.

<http://www.berkshirerriott.com/>

ACS Maryland Section - Officers and Committee Chairs

Section Officers:

Chair - Stephanie J. Watson - (301) 975-6448; stephanie.watson@nist.gov

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Joseph Topping

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Angela Wells Winstead, Takashi Tsukamoto

Committee Chairs:

Student Awards (April) - George Farrant - (410) 455-4120; gfarrant@ccbcmd.edu

MD ACS Student Grants (April) - Susan Mercer - sgill002@umaryland.edu or Paul Smith, pjsmith@umbc.com

Remsen Award (May/June) - Lev Ryzhkov

Braude Award (October) - Charles Rowell

Maryland Chemist Award (December) - Shekhar Munavalli - (410) 436-2819; shekar.munavalli@us.army.mil

Maryland Service Award - Shree Iyengar - (410) 777-2266; ssiyengar@aacc.edu

Programs:

Archives - Ernie Silversmith - (443) 885-3214

Career Planning - Linh Cheong - (410) 762-1159

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Environmental Issues - Shirish Shah - (410) 704-2720
sshah@towson.edu & Sandy Young

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aamah@coppin.edu

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Walter_Roy@mccormick.com

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Continuing Education/High School Education -
Shirish Shah/Ellen Pisciotta

Kids & Chemistry/Chemistry-in-the-Library -
Sue Procell, 410-436-4604,
suzanne.procell@us.army.mil /Sandy Young

National Chemistry Week (NCW) -
Shirish Shah & Sandy Young

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About the speaker

Mr. Mark Profili

Director, Forensic Chemistry/Science Programs, Towson University

Phone: (410) 704-5043, (mprofili@towson.edu) http://pages.towson.edu/ladon/forensic_chemistry3.htm

Background: BS Towson University, MS George Washington

April Abstract

“Forensic Chemistry and Forensic Science Programs at a Metropolitan University ”

Towson University's Forensic Chemistry Undergraduate and Master of Science in Forensic Science programs were designed specifically to prepare the graduate with the knowledge, skills and abilities to enter the work force as a forensic scientist. This presentation will discuss the types of jobs available in the public and private forensic sectors, the education and the training needed to fill these positions and how Towson University has met the challenge to evolve the student from the classroom to the Crime Lab.

Student Affiliate News

By: Susan Mercer

We are pleased to announce that Morgan State University has won a MD ACS Student Affiliate Outreach Award for their MUCH (Morgan Undergraduate Chemistry Help) program activities, which involves outreach to local elementary schools. The Morgan State student affiliates have been invited to the April Dinner Meeting to receive their award and be honored for their outstanding achievements.

Applications for the **2008 MD ACS Student Affiliate Awards** (Green Chemistry Initiative, Interaction, and Outreach) are currently being accepted. Applications will be held until the deadline of March 1, 2008. For award descriptions and application submission, email Susan Mercer at sgill002@umaryland.edu. Each club may apply once for all three awards. Award recipients will receive \$100 to support club activities at the 2008 April Student Awards Dinner Meeting.

A **Student Affiliate Networking Activity** is planned for **Friday, April 27th (7:00-10:00 P.M.) at Dave and Busters - Arundel Mills: 7000 Arundel Mills, Hanover, MD 21076**. Encourage your students to come out and meet local Student-Affiliates and representatives from the MD-ACS, while enjoying food and having fun. The event is free for students, but **RSVP is required** to Susan Mercer at sgill002@umaryland.edu by **April 20th**.

MORGAN STATE UNIVERSITY - by Dr. Louise Hellwig

Morgan State's chapter of SA-ACS has had several interesting speakers this semester including: Martin Codrington ('05), now at Texas A&M, discussed chemistry graduate school with Chemistry Club members; Ms. Courtney Gilbert of Aerotek Employment Agency who advised us about applying for jobs in chemistry; and Dr. Monet Sifford-Wilson of Pfizer who discussed the many careers available in the pharmaceutical industry.

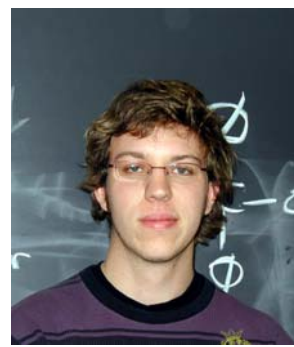
In connection with February being Black History month, the Chemistry Club watched the Nova video on Percy Julian.

The Morgan Undergraduate Chemistry Help (MUCH) program is continuing this semester with three teams already visiting Leith Walk, Hazelwood, and Northwood elementary schools on a weekly basis to lead fifth grade classes in chemistry experiments. Two more teams are preparing to visit two other elementary schools in the near future. The Chemistry Club is gratified to win a MD ACS Student Affiliate Outreach Award for last semester's MUCH activities.

Maryland Section of the ACS Student Awardees for 2007

Anne Arundel Community College

Kevin Poff



CCBC-Catonsville

Zachary D. Kurtz



Copin State College

Sandra Endurance Assan

(No Picture Available)

Goucher College

Lisa Gulian



Hood College

Kemi Abolude



Howard Community College

Caroline Scheck



Johns Hopkins University

Ramya Srinivasan



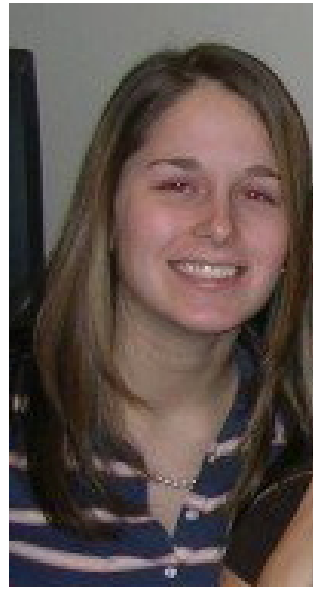
Loyola College

Brittany Conahan



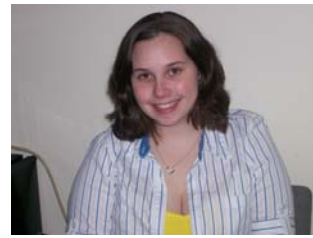
McDaniel College

Katherine Chapman



Mount Saint Mary's University

Ashley E. Keeney



Saint Mary's College of Maryland

Emily Anna Oblath



Morgan State University

Divine Kebulu



College of Notre Dame

Nicole Eigenbrode



Towson University

Valerie Schmidt



United States Naval Academy


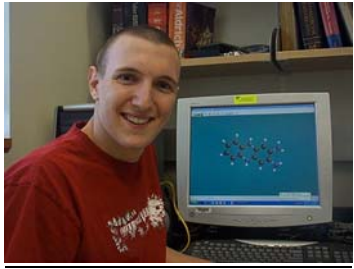
John Blaine Moore



UMBC

Linda Thompson



<p><u>Villa Julie College</u></p> <p>Amelia Delaquil</p>	
<p><u>Washington College</u></p> <p>Edward G. Hohenstein</p>	

First Awardee for the 2007 Student Travel Award:



Chelsea Prior, Student Affiliate and Senior Chemistry Major at Washington College was a recipient of a \$500 Undergraduate Student Travel Award from the MD ACS. The award assisted her in attending the 233rd National ACS Meeting in Chicago, IL (March 25-29, 2007), where she presented her research with Professor Leslie Sherman in the area of environmental chemistry.

Her work focuses on how prescribed burns affect soil chemistry, and specifically, the levels of extractable calcium, magnesium, and organic matter. This was Chelsea's first National meeting. We congratulate her research efforts and thank her for representing the Maryland Section in Chicago!

Nominations for the 2007 Maryland Chemist Award

The Maryland Chemist Award Committee is accepting nominations for the 2007 Maryland Chemist Award. Supportive documentation should include copies of the resume of the nominee and his/her list of publications. A short statement describing the outstanding contributions of the nominee to scientific research, education, industry, technology, etc., will be helpful and appreciated. Please send nominations to S. Munavalli, 700 Paige Circle, Bel Air, MD, 21014. The deadline for submission of nominations is April 15, 2007.

April Historical Events In Chemistry

By: Leopold May

- April 2, 1877 Carl L. Alsberg, a researcher on chemistry and metabolism of proteins, was born on this date. He served as chief of the Bureau of Chemistry, US Department of Agriculture (1912-1921) for drug regulation.
- April 6, 1863 James Walker, who was born on this date, did research on hydrolysis, ionization constants, and amphoteric electrolytes with organic compounds.
- April 10, 1917 Robert B. Woodward, who did research in stereoselective organic synthesis, was born on this date. He was involved in the formulation of the Woodward-Hoffman rules and received the Nobel Prize in Chemistry in 1965 for his outstanding achievements in the art of organic synthesis.
- April 12, 1884 Otto F. Meyerhof, was a researcher on muscle metabolism who in 1922 shared the Nobel Prize in Medicine for his discovery of the fixed relationship between the consumption of oxygen and the metabolism of lactic acid in the muscle with Archibald Vivian Hill for his discovery relating to the production of heat in the muscle. He was born on this date.
- April 13, 1968 The paper on the discovery of crown ethers and their complexes, "Cyclic polyethers and their complexes with metal salts" by C. P. Pedersen was received on this day. Published in *J. Am. Chem. Soc.*, **1967**, 89, 7017.
- April 15, 1861 Ernest Solvay received his first patent entitled "Industrial Production of Sodium Carbonate by Means of Marine Salt, Ammonia, and Carbon Dioxide".
- April 17, 1869 Robert Robertson did research in explosives including amato and tetryl (trinitrophenyl-methylnitramine). He was born on this day.
- April 18, 1864 Samuel C. Hooker was a sugar chemist who was born on this day.
- April 20, 1889 Paul Karrer, who was born on this day, synthesized vitamins A in 1931, B₂ (riboflavin) in 1935, and E (tocopherol) in 1938. He shared the Nobel Prize in 1937 with Walter N. Haworth.
- April 21, 1882 One hundred and Twenty-five Years ago, Percy W. Bridgman was born on this date. He studied the effect of pressure on substances and showed that viscosity increases with high pressure. In 1946, he was awarded the Nobel Prize in Physics for the invention of an apparatus to produce extremely high pressures, and for the discoveries he made therewith in the field of high-pressure physics.
- April 22, 2007 Celebrated by ACS on this day, the first Earth Day was founded by Sen. Gaylord Nelson, Father of Earth Day, and organized by Denis Hayes on April 21, 1970.
- April 23, b. 1858 Max K. E. L. Planck, who was born on this date, introduced quantum theory in 1900 and also did research in thermodynamics. In 1918, he received the Nobel Prize in Physics in recognition of the services he rendered to the advancement of Physics by his discovery of energy quanta.
- April 26, 1932 Seventy-five years ago, Michael Smith was born on this date. He invented oligonucleotide-based, site-directed mutagenesis of DNA. In 1993, he received the Nobel Prize for his fundamental contributions to the establishment of oligonucleotide-based, site-directed mutagenesis and its development for protein studies and shared it with Kary B. Mullis for his invention of the polymerase chain reaction (PCR) method.

~April Historical Events in Chemistry Continued~

- April 27, 1880 Charles James, who devised crystallization methods for separating the rare earth elements, was born on this day.
- April 29, 1893 Harold C. Urey, who was the first to isolate heavy water (D₂O) in 1932, was born on this day. In 1934, he received a Nobel Prize for the discovery of heavy hydrogen or deuterium.

More historical events may be found at Dr. May's website: <http://chemistry.cua.edu/may.cfm>



Spring 2007 - Important Dates



- April 14, 2007 Earth Day Clean Up - Project Clean Stream
(<http://www.alliancechesbay.org/project.cfm?vid=220>)
- MD ACS will sponsor a site again
- April 15, 2007 April Student Awards Meeting - Burkshire Marriott, Towson, MD - directions at:
(<http://mdchem.org/meetings/burkshire.html>)
- April 21, 2007 MD ACS Earth Day event at the Maryland Science Center
- April 22, 2007 Earth Day
- April 28, 2007 Chemistry Olympics (College of Notre Dame, Baltimore, MD - directions at:
(<http://mdchem.org/meetings/notredame.html>) POC: Mike Zapf
(Mike_Zapf@mccormick.com)
- May 16-18, 2007 Mid-Atlantic Regional Meeting (MARM), Ursinus College, Collegeville, PA
(<http://www.marmacs.org/>) - Theme: Forging New Connections in Chemistry
- May 23, 2007 Remsen Award Dinner Meeting - Johns Hopkins University, Baltimore, MD - directions at:
(<http://mdchem.org/meetings/JHU.html>)
- May 25th, 2007 At 12:00pm, the luncheon will be at Belmont, the Howard County Community College retreat just off Route 1 in Elkridge, MD.



Summer 2007 - Important Dates



- June 15, 2007 Student Affiliate National Meeting Travel Grant application deadline
- July 15, 2007 MD ACS Annual Picnic, McKeldin Area, Patapsco State Park



Fall 2007 - Important Dates



- August 19-23, 2007 Fall 2007 ACS National Meeting & Exposition, Boston, MA
(<http://chemistry.org/meetings>)
- November 15, 2007 America Recycles Day

50 Year Member Letter

9800 Middle Mill Drive
Owings Mills, MD 21117-4885
410-581-5321 T
410-581-5785 F
e-mail adbober@juno.com

To: 50-year Member, American Chemical Society

From: Maryland Section

Subject: Celebration Luncheon

Congratulations on reaching the 50-year membership milestone. The Maryland Section has arranged a luncheon to mark the event. The luncheon will be at Belmont, the Howard County Community College retreat just off Route 1 in Elkridge, MD on Friday, May 25, 2007, at noon. We have an agenda that will give you an opportunity to interact with the other 50-year members (13) and to accept the plaque ACS has issued in your honor.

Please be our guest. The Section can arrange transportation if you need it. Space at Belmont is limited but you may bring a guest at no charge if you let us know asap. Ultimately, let us know whether or not you will attend by May 1st.

Any of the above addresses can reach us.

Alvin Bober
Ernest Silversmith
Shirish Shah

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WHEN: JULY 15, 2007

WHERE: PATAPSCO STATE PARK, PAVILION #501 , McKeldin Area (Marriottsville Road)

TIME: Noon to 5.00P.M.

DIRECTIONS: Route I-70 to Marriottsville Road, 5 miles north on Marriottsville Road to park entrance on the right.

The Maryland Section, American Chemical Society, will again sponsor a family picnic. The Section will provide hotdogs, hamburgers, chicken, sodas, condiments, paper goods, cups, utensils, etc... The McKeldin Area has a ball diamond, basketball court, volleyball court, hiking trails, horseshoe pits, wading stream and more.

There will be a Scrabble tournament and a Domino contest.
Please bring your sets and dictionaries.

To make the picnic a special food fest, we are inviting participating families to bring a food dish. Please use the initials formula shown below:

A-F side dish

G-L salad

M-R snack

S-Z dessert

Fees: \$15.00 per family; \$7.50 per individual

Reservations: Please send checks, payable to Maryland Section, ACS, to

Alvin Bober
9800 Middle Mill Drive
Owings Mills, MD 21117
by July 1st.

Late reservations: Call 410-581-5321 or e-mail adbober@juno.com

Entrance to the Park is free for Seniors (62 & up) and for children under 16. There is a small fee for others.

BRING YOUR SPORTS EQUIPMENT

Receiving the Chesapeake Chemist

Hopefully, if you are receiving the Chesapeake Chemist this month, you received our mailing regarding going to electronic only updates for the Chesapeake Chemist. Please remember that we are dependant on the National ACS records for your correct, current e-mail.

E-mail changes can be updated either by:

- E-mailing us at chemists4fun@yahoo.com - give us your member #, full name, and e-mail changes and we can ensure that your records are updated with National ACS.
- Contacting the National ACS membership division: 800-333-9511 (US only) or service@acs.org

Johns Hopkins University Chemistry Department
The Ephraim and Wilma Shaw Roseman Colloquium Series

Spring 2007

Remsen Hall 233 – Tuesdays, 4:15 pm
For more information contact Rosalie Elder, 410-516-7432

<http://chemistry.jhu.edu/colloquia.html>

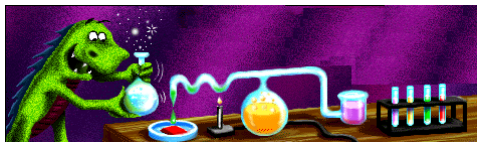
The schedule can be downloaded in pdf or html format.

April 3 <i>Tolman</i>	Professor Hashim Al-Hashimi University of Michigan	"An NMR View of RNA Dynamics and Its Role in Adaptive Recognition"
April 10 <i>Tovar</i>	Professor Adam Matzger University of Michigan	"Controlling Crystal Polymorphism: Pharmaceuticals to Proteins"
April 17 <i>Bowen</i>	Dr. Mark Pederson Naval Research Laboratory	"Density-Functional-Based Simulation of Molecular Magnets and Light Harvesting Molecules"
April 24 <i>Roth</i>	Dr. Ronald Mason NIH/NIEHS [E]	"Do It Yourself Detection of Protein and DNA Free Radicals in Organelles, Cells, and Tissues: A 30 Year Odyssey"
May 1 <i>Yarkony</i>	Dr. M. Riad Manaa Lawrence Livermore National Laboratory	"Initiation and Reactivity of Energetic Materials at Extreme Conditions"

February Dinner Meeting Recap



Dr. Naomi Surgi gave an engaging talk on Hurricane predication to a group of about 35 people at the February Dinner Meeting. Shown in picture: Dr. Stephanie Watson (MD ACS Chair 2007) is introducing the speaker. Dr. Surgi works at NOAA/National Weather Service and they have an excellent website at: (<http://www.nws.noaa.gov/>) with lots of information regarding similar information to what Dr. Surgi spoke about at the meeting.



Outreach

Chemistry-in-the-Library

Reminder: MARK YOUR CALENDARS: our spring program dates are as follows. Other dates may be added.

- Saturday, April 21st - 2-3pm - Chemists Celebrate Earth Day - Walkersville Library, Walkersville, MD (Frederick County)
- Saturday, April 21st - 1-4pm - Maryland Science Center (more info to come)
- Monday, April 23rd - 4:30 - 5:30pm - Chemists Celebrate Earth Day - Waverly Branch Library, Baltimore, MD (Baltimore City)
- Saturday, April 28th - 2-3pm - Chemists Celebrate Earth Day - Glenwood Library, Cooksville, MD (Howard County)
- Friday, May 18th - 2-3pm - Chemists Celebrate Earth Day - Savage Library, Savage, MD (Howard County)
- Saturday, May 19th - 2-3pm - Chemists Celebrate Earth Day - Elkridge Library, Elkridge, MD (Howard County)
- Saturday, May 19th - 2-3pm - Chemists Celebrate Earth Day - Port Deposit Library, Port Deposit, MD (Cecil County)
- Saturday, June 2nd - 2-3pm - Who Dun It? The Chemistry of Crime' - Elkton, MD (Cecil County)

Chemists Celebrate Earth Day - Theme 2007: Recycling - Chemistry Can!

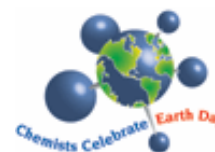
National ACS plans to publish an Earth Day handout again this year. When it is available we will have it available for download on our website.

Stop in and join us if you have time!! If you have any questions or want to assist with an event, please feel free to contact us at chemists4fun@yahoo.com.



Pre-Earth Day Clean-Up

**Herring Run Watershed -
Saturday, April 14th, 2007**



The Maryland Section (www.mdchem.org) of the ACS is once again teaming up with the Herring Run Watershed Association (www.herringrun.org) for a pre-Earth Day Clean-Up event in Baltimore. Come on out and lend a hand!

When?: Saturday, April 14th, 2007 - Clean-up from 9am - 12pm - come for an hour or stay the whole time - we appreciate your participation!

Where?: Location is at Herring Run Park in northeast Baltimore City adjacent to Lake Montebello (the park entrance is at the intersection of Harford Road and Argonne/Parkside Drives)

*Wear sturdy shoes and old clothes!

*Bags and gloves will be provided

*Refreshments will be available (drinks/snacks) as well as 'Earth Day' t-shirts for the first 50 participants

A celebration of our service to our neighborhoods and stream will be held after the clean-up from 12 -1:30 in Herring Run Park.

More information or directions: contact Paul Smith at 410-455-2519, pjsmith@umbc.edu

April 2007

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Outreach Event at the Maryland Science Center

The Maryland Section (www.mdchem.org) of the ACS is teaming up with the Maryland Science Center (<http://www.mdsci.org/>) to hold a hands-on Earth Day Outreach event at the Maryland Science Center (601 Light Street, Baltimore, MD 21230). We are looking for volunteers to help with the hands-on activities.

When?: Saturday, April 21st, 2007 - from 12 - 4pm

Where?: The Maryland Science Center is located at 601 Light Street, Baltimore, MD 21230 - in Baltimore's Inner Harbor. Directions and parking info can be found at: (<http://www.mdsci.org/plan/directions.html>).

*National ACS is providing supplies for the experiments

***If you are interested in participating, please contact: Paul Smith at 410-455-2519, pjsmith@umbc.edu**

Volunteer Here!

Like working with students? Have a talent for encouraging students in science? Have ideas for outreach events? Sign up for our volunteer news. Contact Sandy Young at chemists4fun@yahoo.com.

Interested in holding your own Chemistry-in-the-Library Program?

We are looking at putting some supply kits together and having a short training event with luncheon for folks who plan to hold their own Maryland ACS sponsored science events at local libraries in the spring. Please contact Sandy Young at chemists4fun@yahoo.com for more information.

Maryland ACS

Interested in how your dues get used and want to work on interesting member programs/projects? If you want to get involved with the Maryland Section Executive Committee and/or with section activities, we want to hear from YOU! The Maryland ACS Executive Committee meets 4 times during the year to discuss and plan activities. Please feel free to contact the chair, vice-chair, or chair-elect via e-mail to get more information on various areas/activities that you are interested in or that we would like to start or expand in the future. The amount of time to commit would be up to you but might be around 2 hours per month, depending on the activity. We are always looking for individuals with budget/financial, editing, and planning skills.

Career Opportunities:

Non-Tenure Track/Tenure Track Assistant Professor in Biochemistry/Chemistry

The Department of Pharmaceutical Sciences is searching for a qualified candidate with expertise in the area of biochemistry and/or chemistry, for a full-time, non-tenure Assistant Professor position beginning in the Summer of 2007. Applicants should have a Ph.D. in the chemical or biochemical sciences, with a minimum of two years of postdoctoral experience. Successful applicants are expected to contribute to teaching at both the professional and graduate levels, with a major emphasis on professional teaching responsibilities through leading content facilitation sessions at the new distant campus at the Universities at Shady Grove. Successful applicants are also expected to establish an independent externally funded research program, and contribute to service activities within the School. Applicants with established research programs may be considered for tenure track appointments. Minorities and Women are encouraged to apply. Review of applications will continue until the position is filled. Please submit a letter of intent, curriculum vitae, teaching objectives, statement of research, and names and contact information of at least three references to: **Dr. A. Coop, Chair, Biochemistry/Chemistry Search Committee, Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, 20 Penn St., Rm. 637, Baltimore, MD 21201. E-mail: acoop@rx.umaryland.edu.** Website: www.pharmacy.umaryland.edu. The University of Maryland is an Affirmative Action/Equal Opportunity/ADA Employer.

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