

# Chesapeake Chemist

*Maryland Section  
American Chemical  
Society*



**Dr. Alexander D. MacKerell, Jr.**  
**Department of Pharmaceutical Science**  
**School of Pharmacy, University of Maryland, Baltimore**

## **Adventures in Computational Chemistry: Obtaining Detailed Topographical Pictures of Bio-molecules**

Wednesday, December 13, 2006 – Burkshire Marriott Hotel, Towson, MD

## Message from the Chair

By: Sandra K. Young

I've been thinking a lot about time lately. This happens at the end of every year when I start to think about what I've accomplished over the last 12 months compared to what I had hoped to accomplish.

I have probably 6 months of C&E News sitting in my office and at home waiting eagerly for me to read them. At some point, I quickly scan through and throw out the oldest ones so I don't officially enter into packrat status with my husband. I bought several Biochemistry books with interactive CDs at the beginning of the year. I've been really interested in polymer layer-by-layer techniques – some made by using Langmuir-Blodgett methods - and how lipids and other biomolecules automatically align and wanted to learn more about it. But the books sit and wait for me on my bookshelf. I promised myself that I'd organize my outreach materials but that hasn't happened. I really wanted to revise some of the labs for the Intro to Chemistry class that I teach but this too sits on the 'Wish I had time for...' shelf of the future.

On the other hand, time marches on and many things that I have committed to do or attend have occurred. I started my own science project last year by celebrating the birth of my first child and have enjoyed watching her grow, learn, and achieve milestones over the last year. With the Maryland ACS, we held a Women's Chemist Committee Luncheon at Sabatino's in March hosting Dr. Sandra Greer from the University of Maryland at College Park who gave a presentation on the Advancement of Women in Science (<http://coach.uoregon.edu/>). We have participated in what has become (for the MD ACS) an annual clean up event at the Herring Run Watershed. I've organized and run numerous outreach events, including Chemistry-in-the-Library ([http://mdchem.org/citl/citl\\_main.html](http://mdchem.org/citl/citl_main.html)), Gains in the Education of Mathematics & Science (<http://www.usaeop.com/programs/GEMS/>), and National Chemistry Week (<http://chemistry.org/ncw>), reaching out to the most students ever – over 4,000 around Maryland! I met a number of new people/ACS members at many of the MD ACS's dinner meetings and at the MD ACS annual picnic and have listened to fascinating research at several of our awards dinners (and looking forward to the one in December). Among other events, it's been a really busy year!



Dr. Sandra Greer starting her presentation at the Women Chemists Committee luncheon



MD ACS Members helping a Baltimore neighborhood community clean up the Herring Run Watershed



Dr. Alvin Bober has been the head chef/chemist at the MD ACS Annual picnic at Patapsco State Park for many years

Recently, my Mom who has been a chemist at Unilever in Chicago for over 22 years decided to retire. I asked her what she plans on doing with the time she'll now have. Well, she's going to catch up on her reading of C&E News – a stack that she calls 'a mile high', along with reading other books, organizing the house, etc. So maybe there's hope that in about 30-years when I retire I will catch up with all these things on my to-do list... but I'm not betting on it!

# ACS Maryland Section - Officers and Committee Chairs

## Section Officers

Chair: Sandra K. Young, 410-306-0679

[skyoung@arl.army.mil](mailto:skyoung@arl.army.mil)

Vice-chair: Stephanie J. Watson

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Chair-elect: Lev Ryzhkov, 410-704-3831

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Secretary: Sara Narayan, 443-334-2326

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## Councilors

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## Alternate Councilors

Shekar Munavalli, Shirish Shah

Paul Smith, Joseph Topping

## Members at Large

Karen Hatwell, Maurice Iwunze,

Jan Kolakowski, Liina Ladon, James Nwaba

## Committee Chairs

Student Awards (April): George Farrant,

410-455-4120; [gfarrant@ccbcmd.edu](mailto:gfarrant@ccbcmd.edu)

MD ACS Student Grants: Susan Mercer,

[sgill002@umaryland.edu](mailto:sgill002@umaryland.edu) or Paul Smith,

[pjsmith@umbc.com](mailto: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](mailto:shekar.munavalli@us.army.mil)

Maryland Service Award:

Shree Iyengar, 410-777-2266

[ssiyengar@aacc.edu](mailto:ssiyengar@aacc.edu)

## Programs

Archives: Ernie Silversmith, 443-885-3214

Career Planning: Linh Cheong, 410-762-1159

Earth Day: Paul Smith & Sandy Young

Environmental Issues: Shirish Shah, 410-704-2720

[sshah@towson.edu](mailto:sshah@towson.edu) & Sandy Young

Finance Committee: Jan Kolakowski,

410-436-2755, [jan.kolakowski@us.army.mil](mailto:jan.kolakowski@us.army.mil)

Government Relations:

Shirish Shah & Robert von Tersch

Long Range Planning: Shekar Munavalli

MARM: Shirish Shah & Alan Samuels

Membership: Merle Eiss

Minority Affairs: Alfred Amah, 410-602-7164,

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Women Chemists/Younger Chemists:

Sara Narayan, 410-602-7326/Amanda Miller

## Educational Programs:

Chemistry Olympiad/Chem-a-Thon:

Shirish Shah & Mike Zapf,

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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](mailto:suzanne.procell@us.army.mil) /Sandy Young

National Chemistry Week (NCW):

Shirish Shah & Sandy Young

**Maryland Section on the Web:** <http://mdchem.org>

Webmaster: Sandy Young

[chemists4fun@yahoo.com](mailto:chemists4fun@yahoo.com))

**Chesapeake Chemist (temporary) Editor:**

Sandy Young ([chemists4fun@yahoo.com](mailto:chemists4fun@yahoo.com))

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# December Dinner Meeting

Wednesday, December 13, 2006, Burkshire Marriott Conference Center  
Towson, MD

6:00-6:45 pm	Social/Appetizers & Beverages
6:45-7:45 pm	Dinner
7:45-8pm	Award Presentation to Dr. MacKerell
8:00-8:50 pm	Presentation Dr. Alexander D. MacKerell, Jr. Department of Pharmaceutical Science, School of Pharmacy, University of Maryland, Baltimore <i>“Adventures in Computational Chemistry: Obtaining Detailed Topographical Pictures of Bio- molecules”</i> Question and Answer (10 minutes)

Cost for the dinner is \$25.00 for members; \$20.00 for spouses, retired chemists and guests, and \$10.00 for students. For reservations please contact Shirish Shah at 410-323-0803 (H) or by email at [dr.shah@juno.com](mailto:dr.shah@juno.com).

**Directions to Burkshire Marriott Conference Center:** 10 West Burke Avenue, Towson, MD

- From the Baltimore beltway, I-695, follow to exit 27, Dulaney Valley Road
- The Burkshire 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 Burkshire'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 by the elevators to locate the dining room

## Adventures in Computational Chemistry: Obtaining Detailed Topographical Pictures of Bio-molecules

Developing an anatomically detailed picture of the mechanism by which biological molecules function in their natural environment is one of the primary goals of computational chemistry. The motivation for this goal is the difficulty in obtaining such a picture from experimental methods alone. Computational chemistry achieves an atomic picture of molecules by applying mathematical models to calculate the change in energy as a function of atomic positions and electron coordinates, information that may then be used to unravel and understand the functioning of the biomolecules. Over the past 15 years a major goal of our laboratory has been the improvement of the mathematical models used in computational chemistry. In addition, we have used those models to study a variety of biological systems including the identification of low molecular weight inhibitors of proteins. An introduction to the concepts of computational chemistry and a brief overview of our work in model optimization will be discussed in this presentation. This will be followed by two examples of the application of computational chemistry to biological systems: flipping of a base out of DNA by the cytosine-5-methyltransferase from *Hhal* (*M.Hhal*) and the identification of inhibitors of the enzyme p56lck kinase.

**About the speaker...** Alexander D. MacKerell, Jr. has been named the 2006 Maryland Chemist of the Year by the ACS Maryland Section. He will receive the award on Dec. 13 during a second meeting in Towson, MD.

Dr. MacKerell is a professor in the Department of Pharmaceutical Science, School of Pharmacy, University of Maryland, Baltimore. He is also director of the University's Computer-Aided Drug Design Center.

Dr. MacKerell is being honored for his numerous scientific achievements, including pioneering research on the aldehyde dehydrogenase enzyme system, biophysical studies, including time-resolved fluorescence, chemical relaxation and MD simulations of ribonuclease T1, developing methodology in the area of empirical force fields and MD simulations, structure-activity relationships of DNA and RNA and the application of computational methods to drug discovery. He is also being honored for being an interactive and inspiring teacher.

### **Maryland Chemist Award Citation:**

The Maryland Chemist Award for 2006 is presented to Alexander D. MacKerell, Jr. in acknowledgement of his numerous scientific achievements, including pioneering research on the aldehyde dehydrogenase enzyme system, biophysical studies, including time-resolved fluorescence, chemical relaxation and MD simulations of ribonuclease T1, developing methodology in the area of empirical force fields and MD simulations, structure-activity relationships of DNA and RNA, and the application of computational methods to drug discovery, and also for being an interactive and inspiring teacher.

### **Maryland Chemist Award**

The Maryland Chemist Award was established in 1962 to recognize and to honor, each year, a member of the Maryland Section for outstanding achievement in the fields of chemistry. The achievement, as originally stated, may be in pure or applied chemistry, chemical engineering, or chemical education. Some recipients have distinguished themselves in management. The section's Bylaw VIII (applicable section quoted below) establishes the rules of selection of recipients of the Maryland Chemist Award. Recommendations of the Awards Committee must be approved by the section officers.

*"Recipients of the Maryland Chemist Award must have been members of the section for a minimum of five years and have made outstanding contributions to chemistry as defined in the Constitution of the Society (chemistry is defined in broad terms). The work on which the award is based should have been performed in Maryland."*

A list of previous awardees can be found on the Maryland ACS website at: (<http://mdchem.org/mdchem.html>).

### **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.

## December Historical Events in Chemistry

by Leopold May

The Catholic University of America

Washington, DC 20064

- December 23, 1722 Axel F. Cronstedt, who was born on this day, discovered nickel in 1751, and zeolites. He also made a classification of minerals.
- December 9, 1748 Claude L. Berthollet, who was born on this date, analysed ammonia, discovered the bleaching action of chlorine, and the composition of prussic acid. He also showed that acids do not need to contain oxygen.
- December 25, 1761 In 1791, Rev. William Gregor discovered titanium. He also analyzed minerals and was born on this date.
- December 15, 1780 Johann W. Döbereiner postulated the theory of triads showing periodicity in the elements. He was a researcher on catalytic action of platinum and invented the instantaneous lighting lamp (Döbereiner lamp). He was born on this date.
- December 7, 1810 This is the birthdate of Theodor Schwann who named and investigated pepsin in 1836. He also coined the word metabolism. Schwann's animal cell theory stimulated a great deal of research. He is now recognized as the founder of modern histology. He found that sugar and starch fermentation were the result of life processes, investigated muscular contraction and nerve structure, and discovered the striated muscle of the upper esophagus and the myelin sheath of peripheral axons, called Schwann cells.
- December 27, 1822 Louis Pasteur, who was born on this date, did research in stereochemistry, optical activity of tartaric acids, and fermentation. He invented the process of sterilizing food (Pasteurization).
- December 6, 1835 Rudolf Fittig, who was born on this date, synthesized organic compounds, e.g., lactones, with B. C. G. Tollens; and toluene. He discovered diphenyl, phenanthrene in 1872, and coumarone in 1883.
- December 2, 1859 Ludwig Knorr, who synthesized heterocyclic compounds, was born on this date.
- December 4, 1867 C. H. Herty, who studied the chemistry of natural resources, was born on this date. He established the manufacture of paper from Georgia pines and served as President of the American Chemical Society.
- December 31, 1881 One hundred and Twenty-five Years ago, Colin G. Fink was born. He was a researcher, developer, industrialist, and teacher in electrochemistry.
- December 5, 1901 Werner Heisenberg, a researcher in quantum mechanics; developed the Heisenberg Principle in 1927. In 1932, he received the Nobel Prize in Physics for the creation of quantum mechanics. He was born on this date.
- December 11, 1906 One Hundred Years ago, Henri Moissan received the Nobel Prize in Chemistry in recognition of the great services rendered by him in his investigation and isolation of the element fluorine, and for the adoption in the service of science of the electric furnace called after him.
- December 17, 1908 Willard F. Libby developed carbon dating. In 1960, he was awarded the Nobel Prize for this and was born on this date. He also did research in hot atom chemistry, tracer techniques, and isotope tracer work.
- December 29, 1931 Seventy-five years ago, it was announced that heavy water, D<sub>2</sub>O, was discovered on this date.

Continued on Page 7

- December 14, 1940 Glenn T. Seaborg, Edwin M. McMillan, J. W. Kennedy, and A. C. Wahl performed the first bombardment of uranium oxide with 16-MeV deuterons to produce plutonium on this date.
- December 8, 1947 Thomas R. Cech, who discovered role of ribonucleic acid (RNA) in the cell, was born on this date. In 1989, he shared the Nobel Prize with Sidney Altman for their discovery of catalytic properties of RNA.
- December 19, 1949 Berkelium was discovered by ion exchange chromatography at University of California, Berkeley on this date.

More Historical Events may be found at Dr. May's website: <http://faculty.cua.edu/may/may.htm>.

An informal association, Society for the Propagation of the Music of the Chemist-Composers, has been formed to publicize the music of chemist-composers. For information, see <http://faculty.cua.edu/may/SPMCC.htm>

## A Continuing Reminder: Receiving the Chesapeake Chemist

We are continuing to work on efforts to ensure that all of our members receive the Chesapeake Chemist in a timely fashion but continue to have problems with getting it printed. We had the Chesapeake Chemist printed last month but the printer did not have it available until AFTER the meeting so it didn't get sent. The e-mail version gets to about 1,600 of our 2,000 members about 1-2 weeks before the meeting. You can ALWAYS download a copy of the current edition (usually by the 5<sup>th</sup> of the month) or prior editions of the Chesapeake Chemist at the Maryland ACS website: <http://mdchem.org>.

You are welcome to give your e-mail or, also importantly, correct your e-mail address with the National ACS (and they will update the Maryland ACS roster and you too will be included on the e-mail distribution of the Chesapeake Chemist) by contacting the National ACS membership division: 800-333-9511 (US only) or [service@acs.org](mailto:service@acs.org).

## November Dinner Meeting Recap



The November Dinner meeting speaker was Dr. Cann who gave an excellent presentation on 'Green Chemistry – Chemistry for the Long Haul'. Before the presentation a raffle was held for recycling bins since our meeting was on November 15<sup>th</sup>, which is America Recycles Day. Winners of the recycling bins were: June Bronfenbrenner (shown in the picture), Bill Goldberg, and Amanda Idstein.

## Student Affiliate News

By: Susan Mercer

The MD ACS is sponsoring a “Student Affiliate – MD ACS Green Chemistry Initiative Award”. This Award will be given to Student Affiliate groups who host or participate in a Green Chemistry Event of their own choosing. Ideas include: 1) hosting a Boy/Girl Scout group on campus and help them reach their Science Badge in a “Green” manner, 2) host an informational session with demonstrations to a high school or college community to increase awareness of Green Chemistry, and 3) change a laboratory experiment to a Green experiment. Novel ideas for the Green Chemistry Initiative and collaborations with other local Student Affiliate chapters and/or the MD-ACS are highly encouraged!

- The Green Chemistry Initiative Awards will be given out to a maximum of 5 chapters at the April Student Awards Dinner Meeting. Recipients of the award will receive \$100 for their chapter activities.
- Documentation requirements: A statement (no longer than 2 pages) must be submitted for consideration which includes:
  - Description of event/participation
  - Names of group members (more than 2 people must be involved in order to be considered)
  - Community impact
  - 2-3 digital pictures of the event
  - Plans for award money (if received)
  - Any other pertinent information
- Student affiliate groups can only be considered for one Green Chemistry Award per calendar year.
- Questions about the award or documentation for the award should be e-mailed to Ms. Susan Mercer at [sgill002@umaryland.edu](mailto:sgill002@umaryland.edu)
- Green Chemistry Award documentation is **due annually on March 1<sup>st</sup>**

## Applications Are Being Accepted for the Undergraduate Student Travel Awards

Students can apply to receive up to \$500 for travel and expenses to attend a National ACS Meeting or up to \$300 to attend a Regional ACS Meeting. Open to undergraduate student affiliates of the ACS who are enrolled full time in a college or university in the Maryland Section.

The application should include:

- The meeting you plan to attend along with location, dates
- An estimated budget (cost for travel, registration, lodging, and meals)
- A 250 word essay describing your motivation for attending the meeting (if you plan to present, include a brief description of the work to be presented)
- A letter of support from a faculty member in your department

Review of applications will begin January 15<sup>th</sup>. Applications should be mailed to: Dr. Paul Smith, UMBC, Department of Chemistry and Biochemistry, 1000 Hilltop Circle, Baltimore, MD, 21250 or sent via e-mail: [pjsmith@umbc.com](mailto:pjsmith@umbc.com).



## Fall 2006 - Important Dates



**Wednesday, December 13** - December Dinner Meeting (Maryland Chemist of the Year)

Burkshire Hotel, Towson, MD – directions at: (<http://mdchem.org/meetings/burkshire.html>)



## Spring 2007 - Important Dates



- January 15, 2007 Student Affiliate National Meeting Travel Grant application deadline  
(<http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=education%5Cstudent%5Ctravelgrantinfo.html>)
- February 1, 2007 Student Affiliate Documentation for the MD ACS Travel Award due
- February 21, 2007 February Dinner Meeting - Goucher College, Baltimore, MD - directions at:  
(<http://mdchem.org/meetings/goucher.html>)
- March 1, 2007 Student Affiliate Documentation for the MD ACS Awards: Green Chemistry, Interaction, and Outreach due
- March 25-29, 2007 Spring 2007 ACS National Meeting & Exposition, Chicago, IL  
(<http://chemistry.org/meetings>)
- 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 28, 2007 Chemistry Olympics (College of Notre Dame, Baltimore, MD – directions at:  
(<http://mdchem.org/meetings/notredame.html>)
- May 16-18, 2007 Mid-Atlantic Regional Meeting (MARM), Ursinus College, Collegeville, PA  
(<http://www.marmacs.org/>) – Theme: Forging New Connections in Chemistry
- June 15, 2007 Student Affiliate National Meeting Travel Grant application deadline

## ACS Maryland Section Survey

At the end of every year, we publish a section survey for the Maryland ACS. This survey helps us to gauge member satisfaction with various section efforts and plan for next year's activities. Please take a few minutes to look over and evaluate the activities that you took part in this year, marking each with a number from 1 (Best) to 5 (Worst) or N/A if you did not take part in the activity. Then please mail your survey responses anonymously to Shirish Shah, Chemistry Department, Towson University, Towson, MD, 21252 or send them via e-mail to Shirish at: [dr.shah@juno.com](mailto:dr.shah@juno.com) by December 31, 2006, labeling the subject of the e-mail as 'MD ACS Section Survey'. Thanks for your input!!

### Activities:

#### Regular and Award Dinner Meetings:

- \_\_\_\_\_ Monthly Dinner meetings (Feb, Sept, Nov)
- \_\_\_\_\_ Student Awards (April)
- \_\_\_\_\_ Remsen Award (June)
- \_\_\_\_\_ Braude Award (October)
- \_\_\_\_\_ MD Chemist Award (December)

#### Section Communication:

- \_\_\_\_\_ Chesapeake Chemist
- \_\_\_\_\_ MD ACS website (<http://mdchem.org>)

#### Outreach Events:

- \_\_\_\_\_ Chemistry-in-the-Library
- \_\_\_\_\_ Kids and Chemistry
- \_\_\_\_\_ National Chemistry Week

#### High School & College/University Events:

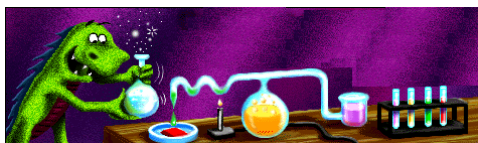
- \_\_\_\_\_ Chemistry Olympics
- \_\_\_\_\_ Chemagination
- \_\_\_\_\_ SAACS (Chemistry Clubs at Colleges and Universities)

#### General Events:

- \_\_\_\_\_ Earth Day Celebration
- \_\_\_\_\_ Bowling Challenge

Other or Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



## Outreach

### Chemistry-in-the-Library

We had a very successful year in 2006, working with over 300 students in Baltimore City and 5 different counties. This was the 4<sup>th</sup> year of our Chemistry-in-the-Library program.

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

- Friday, March 30th - 2-3pm - Magnetism: Chemistry of Attraction - Savage Branch Library, Savage, MD (Howard County)
- Saturday, April 21st - 2-3pm - Chemists Celebrate Earth Day - Walkersville Library, Walkersville, MD (Frederick County)
- 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](mailto:chemists4fun@yahoo.com).

## National ACS – Run-Off Election for President-Elect, 2007

The original vote for President Elect 2007 had 4 candidates and has resulted in a run-off election between: Dr. Bruce E. Bursten, University of Tennessee, Knoxville, TN and Dr. Bassam Z. Shakhashiri, University of Wisconsin, Madison, WI. Candidate statements can be found on the National ACS website at: (<http://chemistry.org/elections>). This run-off election for 2007 ACS president-elect ends on December 15.

I urge you to take part in this election to help determine the future leader of our society.

Voting via the Internet is easy and available 24 hours a day, at (<http://www.vres.us/acs.html>). To vote, members must use their unique PIN, which is on the paper ballot. The PIN can also be obtained by calling 1-800-218-4026, Monday - Friday, 8:30 AM - 5:00 PM CST and providing your membership number.

## 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](mailto: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](mailto: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.



**micron inc.**  
ANALYTICAL SERVICES

### **MATERIALS CHARACTERIZATION**

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