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# The MAST E-Rapper

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**Fall 2009**

**Volume 3, Number 1**

## Editor's Note

Welcome to Volume 3 of the MAST E-Rapper! And welcome back to another fantastic school year. Hopefully, you are coming back excited, energized and refreshed to all of those wonderful faces in your classrooms who count on you to help them explore this fascinating subject called science.

Please take a few minutes between planning, setting up seating charts and pulling together labs to peruse this latest issue of the E-Rapper.

Part of the focus of this issue is on the upcoming MAST conference. Plan on joining your colleagues across the state on October 16<sup>th</sup>! Read more about it in the article on Upcoming Events.

Also read about the 2009 Excellence in Science Teaching Awards. Learn about the

winners and consider submissions for the 2010 awards.

Make sure to mark your calendar for November 11-13, 2010 when NSTA brings the area conference to Baltimore. MAST has a number of exciting events and promotions leading up to the conference, so keep an eye out for how to get involved.

Please, continue to support the *E-Rapper* with your submissions and readership, and never hesitate to contact me with your concerns, questions, comments, or compliments.

Warm regards,

*Donna*

Donna Balado, Carroll County

[dmbalad@carrollk12.org](mailto:dmbalad@carrollk12.org)

# Table of Contents

(Click on article name to navigate to page)

Editors Note .....	1
President's Message .....	3
MAST News	
<i>MAST Announces 2009 Excellence in Science Teaching Award Winners</i> .....	5
Upcoming Events.....	7
MAST Conference Flyer.....	8
MAST Conference: Presentation Proposal Form .....	9
Guest Article	
<i>Virginia invites Maryland to Annual Conference</i> .....	11
Announcements	
<i>MAST and NSTA Seeks Presenters for Regional NSTA Conference</i> .....	12
NESEA Junior Solar Sprint Program.....	15
NESEA Model Solar Race Car Leader Workshop .....	17
MAGIC Mid-Atlantic Girls Collaborative Conference .....	18
MAST Membership Form.....	19

# President's Message

When Galileo trained his newly upgraded telescope toward the heavens, he saw the arrangement of the universe more clearly than most of his contemporaries. Imagine, however if he had chosen a period such as that soon to arrive, 2 hour window on the night of September 2-3, 2009 when *both* the four large moons of Jupiter *and* the rings of Saturn will be obscured for us on Earth! His observations of the heavens might have been much abbreviated.

More recently, if one were trying to observe science education in schools the way Galileo observed the skies, one might have noticed an occultation of sorts. But, at the dawn of this new school year, we are on the verge of change. For the first time in many years, science and science education are at the forefront at all levels of government. In April, President Obama referred to a “national imperative to dramatically improve student achievement in math and science.” In Congress, the Elementary and Secondary Education Act (ESEA, more recently NCLB) is up for reauthorization with a fresh look at accountability. There is federal legislation related to STEM education, and more locally, Congressman Sarbanes, who represents Maryland’s 3<sup>rd</sup> Congressional District, introduced “No Child Left Inside” to focus attention on the experiences and understanding of the natural environment among all children. These activities at the federal level have not gone unnoticed by the state which is throwing tremendous support behind STEM and environmental education initiatives.

To be sure, these are positive signs for the science education community. But as science educators who understand the law of inertia, we know we cannot stand by to await others’ recognition of the important work we do with students every day. We must actively and regularly strive to improve our practice, increase our effectiveness, and spotlight our achievements, and these comprise the core mission of the Maryland Association of Science Teachers. MAST stands alone in Maryland as the collective voice of all educators who teach students about science in all grade levels. But, that collective voice is only effective if everyone steps forward to participate.

Thus, I encourage you to join us, or rejoin us, at the start of this new school year. Your membership supports the recognition of outstanding efforts by your colleagues through the MAST award program. It supports innovation in teaching through the mini-grant program. It supports advancement in professional learning through the MAST annual conference and the semi-annual Speaker Series events. It supports collaboration through the E-Rapper and our new on-line forums. Your annual dues and active involvement bring science education in Maryland to the forefront to serve as a reminder that science and science education are important to everyone everyday.

In a recent poll conducted by the Pew Research Center and reported on by the Associated Press, 27% of those polled indicated that the nation’s greatest achievements are in science, medicine and technology. This was more than in any category besides “don’t know.” While this might seem good news at first blush, this figure is down from 47% of respondents in a similar poll ten years ago. Let us use this as a wake up call to seize the opportunities afforded by the renewed attention to science education and to help America regain global leadership in scientific and technological innovation.

In the coming months, you will be hearing more about our efforts in MAST, and I welcome you to join us. You will learn about a variety of opportunities to become involved, but please do not feel that you must wait. Contact me anytime with your thoughts, suggestions, questions, and comments. Our organization is strong only inasmuch as its membership is strong. I look forward to working with you during the coming year.

Warmest Regards,

*Mary Weller*

[mcwelle@carrollk12.org](mailto:mcwelle@carrollk12.org)

[Return to Table of Contents](#)

# MAST NEWS

## MAST ANNOUNCES 2009 EXCELLENCE IN SCIENCE TEACHING AWARD WINNERS

The Maryland Association of Science Teachers is proud to announce the MAST Excellence Awards for Science Teaching in Maryland. This year's awards were selected from a collection of many outstanding science teachers in our state. The awards will be presented formally at our Fall Conference on October 16<sup>th</sup>. This year's awardees are Elementary: Carl Bilotta from Deer Crossing Elementary School in Frederick County, Middle School: Chad Pavlekovich of Salisbury Middle School in Wicomico County, High School: Aline Novak from Clear Spring High School in Washington County and College Level: Dawn Getzandanner of Hood College, located in Frederick.

This year MAST selected elementary science teacher **Carl Bilotta**, from Deer Crossing Elementary School in Frederick. Carl has been teaching elementary science for 5 years. He is known to creatively use technology and teach his students to use this technology in his classroom regularly. From the Classroom Performance System (CPS) and CPS Chalkboard to USB microscopes connected to laptops and projectors, iPod flashcards along with United Streaming and Audacity, a computer program for voice recording, Carl seems to continually find ways to excite his students as they learn science. He has initiated a Volcano-Fest for his 5<sup>th</sup> graders, along with a physics station on rocketry at their Science Family Fun Night, and has also coordinated the school Science Fair and has found presenters to give students incite into science fair project ideas. Carl is the science team leader, is involved with summer curriculum writing, and has presented at various conferences. Carl leads by example and truly exemplifies science teaching excellence on the elementary level.

Our selection for middle school is **Chad Pavlekovich** of Salisbury Middle School located in Wicomico County. Chad teaches 8<sup>th</sup> grade Integrated Science. He is the 8<sup>th</sup> grade team leader and co-chairs his schools Instructional Leadership Team. He has developed a STEM Academy and coordinates his schools Family Science Night. He has developed several summer programs to enrich students like "From Stars to Stegosaurus" which focuses on astronomy and paleontology for his county. He has also worked with the local community college developing and instructing a program called "Blast-Off" on space and rocketry, and SPACE (Students Participating in Astronomy through Classroom Enrichment) where he received numerous grants to fund the program. Chad also works with outdoor education as his students experience lab analysis of water quality at their pond habitat; he has worked with the Horn Point Environmental Center where his camp students focus on the Chesapeake Bay watershed and its local environmental connections and was recognized as Wicomico County's Environmental Teacher of the Year. Chad is a mentor teacher for students from Salisbury State University. Chad has been recognized nationally as a teacher always looking for innovative methods to engage his students to truly learn,

**Aline Novak**, a 32 year teaching veteran at Clear Spring High School in Washington County, is our selection for this year's High School Excellence Award. Aline, currently the science department

leader, has taught chemistry, biology, AP Biology and AP Environmental Science at Clear Spring High School since 1978 and has continued to grow professionally during this time. She is a former Maryland Biology Teacher of the Year, participates as a Master Teacher leader for the Governor's Academy and has worked on HSA item writing. She works to revise county curriculum and benchmark tests. Aline has presented numerous workshops on local, state and national levels on curriculum, CBL's and lab skills, ecology field studies, algae as a food product and technology use in the classroom. Aline has received a variety of grants for technology and environmental studies for her school. She is involved with the "Critical Friends", "Bridging the Watershed", "Maryland Virtual High School" and has also coached various sports at Clear Spring and continues to coach tennis. She serves on the School Improvement Team, chairs the National Honor Society and serves on the Computer and Technology Committee. She is also an adjunct professor at Hagerstown Community College and Shepherd College in West Virginia. Serving science education as a teacher and mentor for years, Aline has been an excellent participant and contributor to her school, county and our state.

Our Excellence awardee on the college level is **Dawn Getzandanner**, of Hood College in Frederick. Currently a teacher specialist for elementary science in Frederick County Public Schools, Dawn, is an adjunct professor where she teaches Modern Science Methods. Dawn is known to her students in Frederick County as "The Spider Lady" as she has used tarantulas to teach some life science indicators. She has given her students, current teachers, many ways to inexpensively use living organisms in the classroom to get their students excited while meeting the needs of the curriculum. Dawn has been involved with the creation of electronic curriculum maps to tie curriculum with appropriate video clips to ease teachers' use of the technology available. She has also been an avid presenter and sharer of ideas ranging from local staff development to teaching MSDE courses to presenting on the state and national levels. Her involvement with staff development on the county level brought her to the idea of teaching other teachers about science teaching at the college level. Dawn has attended numerous workshops on reading and writing, behavior management, brain based practices, and hands-on to minds-on instruction which all provide a connection to her contribution to science education in Maryland.

The Maryland Association of Science Teachers is excited to present these award recipients with a one-year membership to MAST along with a monetary gift and plaque at our fall conference on October 16<sup>th</sup>. Applications for next year's awards, due in May, are available from our website [www.emast.org](http://www.emast.org).

Elizabeth McCook, Frederick County

[Return to Table of Contents](#)



## Upcoming Events

Are you a science teacher interested in learning more about STEM, the 21<sup>st</sup> Century Classroom, and Environmental Education? Are you interested in a preview of the fall 2010 NSTA Conference in Baltimore? If so, you should attend MAST's annual fall conference titled "Access to Excellence".

On Friday, October 16, 2009 MAST will hold its annual fall conference from 9:00 am until 2:00 pm at South Carroll High School in Sykesville, MD. MAST has selected three themes, which mirror the themes selected for the 2010 NSTA Baltimore Conference: STEM, the 21<sup>st</sup> Century Classroom, and Environmental Education. STEM sessions will focus on the incorporation of real-life applications, problem solving, and hand on activities. The 21<sup>st</sup> Century Classroom centers on meeting the needs of all learners through differentiation using technology available in today's schools. Environmental Education or "No Child Left Inside" will meet the needs of teachers looking to bridge the gap between their classes and the environment. Sessions specific to each theme as well as general topic sessions will provide teachers with valuable information from other educators, which they can then take back to their schools and classroom. Concurrent sessions will be held to meet the interests and needs of educators across all grade levels.

A highlight of the day will be the presentation of the "2009 MAST Excellence Awards in Science Education". These annual awards presented by MAST spotlight deserving teachers across the state of Maryland that are committed to offering their students the best in science education.

Please join us for what promises to be an exciting day of learning, sharing and previewing the 2010 NSTA Conference in Baltimore. Teachers are encouraged to bring along lesson plan ideas to share with other educators from across the state. A registration for the fall conference will be available on the MAST website [www.emast.org](http://www.emast.org). If you are interested in presenting at MAST's fall conference, please see the proposal form included in the e-rapper. Submitted proposals are due by September 13<sup>th</sup>. If you plan to present in at NSTA in Baltimore in 2010, this is an ideal opportunity to preview and practice your presentation. MAST will provide a light breakfast and lunch for conference attendees.

Mona Becker, Carroll County  
MAST President-Elect

# Access to Excellence



The Maryland Association of Science Teachers

## Fall Conference

*Friday, October 16<sup>th</sup>*

*South Carroll High School,*

*Sykesville, Maryland*

**9:00am to 2:00pm**

**(Registration begins at 8:30)**

### Strands:

- **Teaching Science in the 21<sup>st</sup> Century- What's New?**
- **Environmental Education K-12, Let's Get Involved!**
- **STEM Education- Preparing Our Students**

*MAST is looking for Presenters and Participants! No substitutes needed!  
Proposal forms are available on our website at [www.emast.org](http://www.emast.org).*



\_\_\_\_ **ENVIRONMENTAL EDUCATION** (Activities that promote Environmental Literacy for all students.)

\_\_\_\_ **STEM EDUCATION** (Great activities that develop student potential for seeking STEM Careers).

**E. Session Audience:** (Check only one level.)

Primary \_\_\_\_\_ Intermediate \_\_\_\_\_ Middle \_\_\_\_\_ High \_\_\_\_\_ K-12 \_\_\_\_\_

**F. Equipment Needs:** (Check only the equipment needed. Computers and projection devices will not be supplied.)

LCD \_\_\_\_\_ Overhead \_\_\_\_\_ TV/VCR \_\_\_\_\_ CD Player \_\_\_\_\_ Water (for your session topic) \_\_\_\_\_

Other \_\_\_\_\_

How much time do you need to set-up? \_\_\_\_\_

**G. Brief Overview:** Please attach a brief overview of your presentation. Be sure to include how your presentation addresses the intent of the Strand as well as student success in the science classroom.

**For additional information, contact –**

Elizabeth McCook – MAST – Fall Conference Program Chair [Elizabeth.mccook@fcps.org](mailto:Elizabeth.mccook@fcps.org)

Mary Weller- MAST- Fall Conference Chair [mcwelle@k12.carr.org](mailto:mcwelle@k12.carr.org)

**Proposals are due by September 13, 2009**

Proposals may be faxed or sent electronically (preferred) to:

Elizabeth McCook – MAST - [Elizabeth.McCook@fcps.org](mailto:Elizabeth.McCook@fcps.org)

Fax 240-236-7601

[Return to Table of Contents](#)

# Guest Article

## Virginia invites Maryland to Annual Conference November 5-7 at Dulles Airport Hilton

Want to learn new ways to engage and empower your students while having a grand time with friends from near and far? For the first time ever, the Virginia Association of Science Teachers is inviting Maryland science teachers to their fall conference, with your registration costs including membership in MAST! The conference is loaded with exciting speakers, field trips, concurrent sessions, special events, and exhibitors galore.

The conference will offer over 220 concurrent sessions covering K-12 science. Saturday morning's panel discussion focuses on a serious issue for Maryland, Virginia and anyone who recognizes the interactions that make our Earth a good place for human beings. That issue is the recent mysterious and catastrophic deaths of bats, deaths related to white nose syndrome. Experts on karst topography and on white nose syndrome from the Virginia Department of Conservation and Recreation will follow up on that panel discussion with small group workshops for elementary, middle, and high school teachers relating this current issue to the science curriculum.

When you pick up your registration materials at the conference table, you'll find in your goodies some VAST bucks. When you visit exhibitors, you'll receive more VAST bucks, and you may even get VAST bucks for attending general sessions and concurrent sessions! What are you supposed to do with that pile of VAST bucks you've accumulated? Come to Friday night's dance and auction and bid on surplus science equipment and materials donated by members and friends of VAST. Glassware! Telescopes! Software! Have some stuff you want to donate? Go to the VAST Website for guidelines for what can and cannot be auctioned. And, be prepared to go home with supplies and equipment for your science classes!

Intrigued? There's much, much more to be found on the VAST Website, [www.vast.org](http://www.vast.org), including a registration form and a preliminary program for the conference. The Fall 2009 newsletter with lots on information on the conference is posted at [http://www.vast.org/index.cfm/go/content.dspcontent/Page\\_Name/Newsletter.html](http://www.vast.org/index.cfm/go/content.dspcontent/Page_Name/Newsletter.html)

Dr. Juanita Jo Matkins, VAST

[Return to Table of Contents](#)

# Announcements

## **MAST and NSTA Seeks Presenters for Regional NSTA Conference in Baltimore 2010**

The National Science Teachers Association in conjunction with the Maryland Association of Science Teachers has announced the opening for proposals to present at our upcoming regional conference. The NSTA will hold its 2010 Regional Conference at the Baltimore Convention Center in November of 2010.

Committees are forming to assist the NSTA in putting together an outstanding conference for Science Teachers. This upcoming conference will center on the theme “**Charting the Course to Excellence**”. In September through January NSTA will be open for receiving proposals from local teachers to present at this conference. There will be approximately 300 presentations for attending teachers to select. NSTA and MAST would like to encourage you to make a presentation at this conference so you can share your favorite lessons, activities, and/or teaching experiences with others.

MAST and NSTA have identified three strands for professional development emphasis. We would like to encourage you to use this opportunity to present to fellow science teachers as a way to enhance your resume, share your expertise and contribute to the professional development of our regional science teachers. When you submit your proposal, please indicate the strand in which you wish to be included. The following lists the strands and goals for each. Please also note that it is not necessary to present in a particular strand. Proposals will be accepted at [www.nsta.org](http://www.nsta.org) under the Conferences and Institutes Tab.

### **Strand One: Teaching Science in the 21<sup>st</sup>-Century Classroom**

Today’s student learns differently. The 21<sup>st</sup>-century student deserves and demands an interactive and student-centric approach to learning. This presents many challenges to educators, including meeting the needs of students with diverse learning styles such as English language learners, special needs students, and advanced and below-grade-level readers. The effective science teacher uses innovative, research-based instructional strategies to facilitate achievement in science for *all* students. Differentiation, universal design for learning, project-based learning, and brain-based learning are just a few of these strategies. This strand will increase participants' knowledge of and expertise in the integration of these and other innovative pedagogies for helping students attain high standards.

**Goals:** To provide workshops and presentations focusing on one or more of the following:

- Differentiation and culturally responsive teaching in science classrooms.
- Effectively integrating cutting-edge technology to enhance student learning and support science teacher professional development.
- Teaching practices such as universal design for learning, response to intervention (RTI), or multiple intelligences.

- Implementing cognitive science to enhance learning.
- Inquiry-based instruction and its impact on student learning.

**Criteria:** Proposals will be evaluated on the extent that they:

- Promote the use of teaching strategies to match the learning styles of today’s learners.
- Provide evidence of effective use of innovative teaching strategies.
- Share examples of effective learning/achievement in “21<sup>st</sup>-century” learners.
- Align with one or more strand goals.
- Align with state and national science education standards (NSES and Benchmarks).
- Are based on current and available research and issues in science.
- Involve participants through activities and/or discussion.

**Strand Two: Embracing the World from Our Own Backyard: Environmental Education**

Our environment is threatened, and science educators are a powerful tool for change. Once empowered, our students will be key to achieving this change. In this increasingly interconnected global community, all members must understand the implications of our choices and the impact we can have both globally and locally. This strand will increase participants’ knowledge of effective practices to help students understand, appreciate, protect, and restore our natural environment.

**Goals:** To provide workshops and presentations focusing on one or more of the following:

- Implementing outdoor science experiences and programs that connect children with nature (e.g., No Child Left Inside, Children in Nature).
- Empowering environmental actions, including service learning, and environmental education activities.
- Becoming a certified Green School.
- Exploring the science of green technologies such as recycling, alternative energy resources and energy conservation, and green building techniques.
- Using 21<sup>st</sup>-century skills to protect local ecosystems, such as water monitoring, invasive species eradication, restoration projects, riparian buffers, runoff prevention, and GIS mapping.

**Criteria:** Proposals will be evaluated on the extent that they:

- Focus on student-centered learning opportunities.
- Model successful strategies for incorporating the local ecosystem into instruction.
- Align with one or more strand goals.
- Align with state and national science education standards (NSES and Benchmarks).
- Are based on current and available research and issues in science.
- Involve participants through activities and/or discussion.

**Strand Three: Building Tomorrow’s Workforce: Science, Technology, Engineering, and Mathematics (STEM)**

Imagination, invention, and creativity drive development in our world. In preparing today’s students to be tomorrow’s workforce we must prepare them for all jobs, even some that do not yet exist. Educators

must help guide students into careers in science, technology, engineering, and mathematics. This strand will highlight classroom practices that emphasize skills in critical thinking, leadership, problem solving, collaboration, communication, media, and technology in the transdisciplinary context of STEM.

**Goals:** To provide workshops and presentations focusing on one or more of the following:

- Real-life applications of STEM activities that encourage preK–16 students to think like scientists and engineers.
- Using problem solving, innovation, and imagination for development of products and applications.
- Using authentic hands-on/minds-on activities where students work as teams to design, construct, and analyze.
- Giving teachers the tools to integrate aspects of engineering and technology into everyday activities and discussions.
- Providing teachers with information on cultivating and sustaining nurturing, meaningful partnerships within their communities.

**Criteria:** Proposals will be evaluated on the extent that they:

- Integrate a STEM focus within the current curriculum.
- Provide student opportunities for collaboration and 21<sup>st</sup>-century skills development.
- Demonstrate effective application of appropriate technologies.
- Align with one or more strand goals.
- Align state and national science education standards (NSES and Benchmarks).
- Are based on current and available research and issues in science.
- Involve participants through activities and/or discussion.

Please feel free to contact Elizabeth McCook at [elizabethmccook@emast.org](mailto:elizabethmccook@emast.org), Program Chairperson for the NSTA Baltimore 2010 Conference if you have further questions in regard to your proposal. All submissions of proposals will go to the NSTA Office. If you wish to assist the Maryland Association of Science Teachers in working with NSTA on the development of this conference you may also contact her or Conference Chairperson, Mary Weller at [mcwelle@carrollk12.org](mailto:mcwelle@carrollk12.org)

[Return to Table of Contents](#)



Hey young Inventors  
want take a test drive?.....



Gain self-esteem



Explore your potential



Learn resourcefulness

In the Junior Solar Sprint program you CAN



Learn to trust your abilities!



Let yourself SHINE & have FUN!



Get in the driver's seat!



[www.NESEA.org](http://www.NESEA.org) 413-774-6051 x27



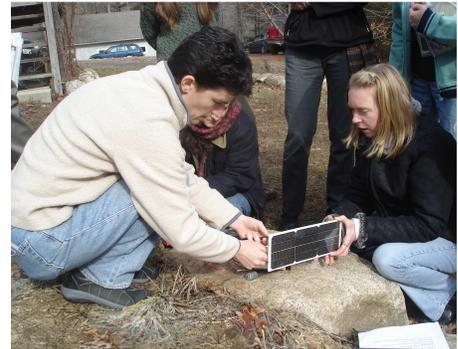
**NORTHEAST SUSTAINABLE ENERGY ASSOCIATION**

**A desire to inspire enthusiasm for science, engineering, and mathematics in students drives the Junior Solar Sprint Program...**

In the Winter and Fall, NESEA hosts FREE training workshop Northeast for teachers, mentors, and community educators



to guide students in grades 5-8 through this well established and highly motivating science & technology project. Your young engineers will deepen their understanding in solar energy, math, physical science, and craftsmanship as they design, build & race their cars.



design, build & race their cars.



Where are tomorrow's inventors, tomorrow's engineers? Where are tomorrow's technological trouble-shooters and scientists? Where are tomorrow's out of the box thinkers?

**They are RIGHT HERE TODAY!**

### The **Junior Solar Sprint program (JSS)**

allows students to explore scientific concepts and technologies that can help our country address issues of global climate change, reduce air and water pollution, and reduce our dependence on foreign sources of fuel. JSS provides opportunities for students to become informed and pro-active citizens, infused with a team-spirit approach to face the challenges that lie ahead with dignity and resourcefulness.

This engaging and creative project focuses on the design, construction, and racing of model solar electric cars. JSS is recognized nationwide as an innovative way to inspire middle school students to study in the fields of science, mathematics, and engineering.



NESEA orchestrates the annual Northeast Junior Solar Sprint Championship the second Sunday in June every year.

School, district, and state races occur throughout the spring and their winners feed into the Championship. NESEA trains and works with JSS area event coordinators and offers support and stipends to area races. Volunteer and exhibit opportunities may be available at events. Contact us for more information.

**[www.nesea.org](http://www.nesea.org) 413-774-6051 x27**

Organized by NESEA & Sponsored by U.S. Army

# Model Solar Race Car Leader Workshop

Looking for an exciting project to do with middle school age kids?



The Junior Solar Sprint program (JSS) is great for the classroom, after school, home schooling, youth groups, or with friends! This engaging, hands-on engineering workshop provides you with the information and skills you need to guide students in grades 5<sup>th</sup> – 8<sup>th</sup> through this well established and highly motivating science and technology project. Your young engineers will deepen their

understanding about solar energy, math, physical science, and craftsmanship as they design, construct, and race model solar cars. Teams can compete locally and join in regional and state races coordinated by JSS Event Coordinators. Top winners are invited to the Northeast Junior Solar Sprint Championship in June.

This JSS Educator Training Workshop is FREE and open to teachers, non-formal educators, scout leaders, community mentors, and other youth group leaders. At this workshop you'll receive:

- A basic parts kit and hands-on experience constructing a model solar car at the workshop.
- Professional development hours in science and engineering education.
- A packet of literature, lessons (JSS, global warming & carbon cycle), resources, and area event information—all the information you need to launch a program.
- A chance at door prizes including a model car solar panel!



For more information contact JSS Coordinator Susan Reyes at [sreyes@nesea.org](mailto:sreyes@nesea.org) or call 413-774-6051 x27

Junior Solar Sprint is coordinated by Northeast Sustainable Energy Association and sponsored by the United States Army.

[www.nesea.org/education/jss](http://www.nesea.org/education/jss)



<http://www.usaeop.com/aeop.htm>





**MAGiC**  
*Mid-Atlantic Girls  
 Collaborative*



www.ngcproject.org/magic

## Kickoff Conference

September 26, 2009  9:30 a.m. – 3:00 p.m.

Conference Center, The Universities at Shady Grove  
 Rockville, MD

All organizations and individuals interested in the advancement of girls in science, technology and mathematics fields are invited to the launch of the Mid-Atlantic Girls Collaborative!

**Learn** how you and your organization can become involved in MAGiC.

**Connect** with companies, not-for-profits, K-12 educators, community college educators, university educators, informal educators and others working to advance girls in STEM fields from the Mid-Atlantic region.

**Gain access** to \$1,000 mini-grants to support your collaborative efforts. The mini-grant application process will be explained in detail during the Kickoff Conference.

Featuring Keynote Speaker:  
 Catherine Didion  
 Senior Program Officer  
 National Academy of Engineering

**To register go to:**

<http://www.ngcproject.org/events/events.cfm?eventid=143>

Space is limited so register today!





# MEMBERSHIP FORM

**Welcome to MAST! Please print, complete, and mail this form to the address below.**

**Type of Membership – Please check one space in each column.**

- |  |                                  |
|--|----------------------------------|
| <input type="checkbox"/> 1 year – \$15.00          | <input type="checkbox"/> New     |
| <input type="checkbox"/> 3 year – \$40.00          | <input type="checkbox"/> Renewal |
| <input type="checkbox"/> Student – \$5.00 (1 year) |                                  |

**Member Information – Please fill this out completely!**

Last Name		First Name		Level – please check all that apply: <input type="checkbox"/> Pre-K <input type="checkbox"/> Elementary <input type="checkbox"/> Student <input type="checkbox"/> Supervisory <input type="checkbox"/> Middle/Jr. High <input type="checkbox"/> High School <input type="checkbox"/> College/University <input type="checkbox"/> Organization (please specify)  <input type="checkbox"/> Other (please specify)
Street Address				
City		State	Zip	
Local School System		School		
Home Phone	Work Phone	Cell Phone		
Email Address		Alternate Email Address		

I would like to donate \$ \_\_\_\_\_ to support:  
 the MAST Awards for Excellence in Science Education Program  
 the MAST Mini-Grants Program

Please make your check payable to the Maryland Association of Science Teachers (MAST) and send it with this completed application to:  
 MAST  
 P.O. Box 368  
 Finksburg, MD 21048

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For Office Use: Date Received \_\_\_\_\_ Amt Paid \_\_\_\_\_ Membership to: \_\_\_\_\_  
 Cash \_\_\_\_\_ Check Number \_\_\_\_\_ Check date \_\_\_\_\_

[Return to Table of Contents](#)