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*TEAM REPORT A Publication*

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<http://www.techedmd.org>

**TEAM**

**The Technology Education Association of Maryland  
Announces the  
Donald Maley Technology Education  
Undergraduate Scholarship**

.....  
The Technology Education Association of Maryland proudly announces the Donald Maley Technology Education Teacher Scholarship in honor of Dr. Donald Maley. Its purpose is to support teachers in their preparation to increase the positive outcomes of technology education. The scholarship is given annually to a freshman undergraduate student majoring in technology education teacher preparation. The award is based upon interest in teaching, academic ability and faculty recommendations.

**Eligibility Requirements:**

- Applicant must be a 1999 graduate of a Maryland High School.
- Applicant must be a current, full-time (as defined by the respective institution) undergraduate majoring in technology education teacher preparation.
- Applicant must be a member of the school's TECA (Technology Education Collegiate Association) chapter (if one exists).

**Application and Deadline:**

Application package postmarked must be received by 5:00 p.m. November 8, 1999, which consists of four sets of the following required items:

- Cover letter of application with applicant's address with day and night telephone numbers, and email address.
- Letter of application that includes statement about personal interest in teaching technology education.
- Applicant's resume or vita. Material should identify career goals, high school and college activities and achievements.
- A photocopy of applicant's high school transcript. A grade point average of 2.3 or more (on a 4.0 scale) is required.
- Proof of full-time enrollment in a technology education program at an accredited college or university.
- Three faculty recommendations. Applicant must show support for application by having his/her professors and/or advisor provide letters of recommendations. Applicants are encouraged to have a combination of high school and college recommendations.

**Mail to:**

**Mr. Barry N. Burke  
Maley Scholarship Committee  
Montgomery County Public Schools  
850 Hungerford Drive, Room 269  
Rockville, MD 20850  
barry\_burke@fc.mcps.k12.md.us  
Phone: 301-279-3567  
FAX: 301-279-3399**

**Scholarship Presentation:**

The scholarship is presented at the annual TEAM Donald Maley Awards Program. The winner does not have to be present to receive the scholarship.

**President's Report** •••••

As we approach the next millennium, it's important that we reflect on the tremendous progress that has taken place. As a state, Maryland has made tremendous strides in making the transition from Industrial Arts to Technology Education. We has recognized what is required to achieve success, and we have worked towards attaining it. Over the past couple of years I have seen Maryland's technology education community come together as a *TEAM* to maintain a level of excellence that has come to be expected from leaders in our field. Developing the Technology Education Leadership Project (TELP), the Emergency Certification Program, and the Master's program in Technology Education are shining examples of how Maryland Technology Education is building the foundation for the future.

As I begin my tenure as president, let my first action be to acknowledge the hard work and dedication demonstrated by our technology educators. The hours of preparation that go into teaching Technology Education can be extreme, but the impact our educators make on the lives of our students is immeasurable. As you know, each year we honor teacher excellence at our Donald Maley Excellence in Education Teacher Recognition Program. A small sample of our teaching community is recognized for their achievements in teaching Technology Education. Let me be the first to say that as we honor these teachers for their accomplishments, we are honoring the entire Maryland technology education teaching community. We have come as far as we have because we have a cadre of teachers that is second to none.

As we move onto the next millennium, continue to strive for excellence. Continue to be leaders in our profession and the teachers of our future leaders. I urge you to get involved with *TEAM* - volunteer on a planning committee, be a district representative, or just be there to help out from time to time. Opening the lines of communication and collaboration between the counties will only strengthen us as a profession and a family. I look forward to working with all of you in the upcoming year.

*Adam Sheinhorn*

## **Attention Elementary Teachers!**

MAKE PLANS TO ATTEND THE

### ***Elementary Leadership Symposium***

presented by ITEA and the Technology Education for Children Council

Make plans now to attend the Elementary Leadership Symposium in Salt Lake City, Utah. This Symposium will be offered during the 62nd annual conference of the International Technology Education Association, Thursday, April 6, 2000.

Elementary school teachers will have the opportunity to learn:

- \*What technology education is all about,
- \*How to integrate technology education into the curriculum,
- \*How to plan for technology education instruction, and
- \*A variety of hands-on, practical learning activities for elementary classroom.

The Elementary Leadership Symposium will run from 8:30 am until 4:00 pm and participants will be able to visit the educational suppliers exposition. The fee for attendance is \$25.00.

For more information, contact Vincent Childress, North Carolina A&T

## **TEAM MEMBERSHIP**

BY BOB GRAY

.....

For the first time, TEAM membership has topped the 300-member level. This is a tribute to the professionalism of Maryland's technology teachers. It is also a tribute to the association's leadership in providing useful services to its members. Over the last year TEAM's president, Thomas Milans of Wheaton High School in Montgomery County, coordinated the efforts of members to deliver an excellent annual conference, a wonderful recognition banquet, an exciting Engineering Challenge competition for students, high quality publications, and numerous other services.

As we begin a new year under the leadership of Adam Sheinhorn of Howard County, it is more important than ever for our profession to unite under the TEAM banner. You can help by encouraging any of your colleagues who have not joined TEAM to do so. The benefits of membership are enhanced each year. The second volume of the Maryland Technology Teacher will be distributed this winter. Its theme is Leadership in Technology Education and features excellent articles from state and national perspectives. Share the membership application in this newsletter with anyone interested in joining TEAM.

**TECHNOLOGY EDUCATION LEADERSHIP PROJECT  
UPDATE  
BY BOB GRAY**

.....

The Technology Education Leadership Project (TELP), a \$1.2 million project funded by the National Science Foundation and administered by the University of Maryland Eastern Shore, is developing Maryland's leaders in Technology Education. Ninety Teacher Leaders from across the state are currently participating in intensive training related to the core technologies, instructional strategies, information systems, and leadership skills. Each Teacher Leader is part of a local planning team that is developing in-service activities that will take place this coming year.

In early October, the TELP Teacher Leaders attended the first of four Weekend Institutes to be held during this school year. Leaders from the Western counties of Maryland met at Westmar High School in Allegany County and received valuable information on Biotechnology from Dr. John Wells of West Virginia University. Optical Technology was the focus of activities for Teacher Leaders from the North Central Region who gathered at Dulaney High School in Baltimore County. Oxon Hill High School was the site of the South Central Region institute that dealt with Mechanical Technology. This session included a presentation by a representative from the American Society of Mechanical Engineers. Teacher Leaders from the Eastern Shore gathered at St. Michael's High School with activities focusing on thermal technology. Each of these sessions also included a presentation on "Planning Effective Professional Development Activities" delivered by one of Maryland's distinguished Technology Education administrators.

Maryland's TELP Teacher Leaders are taking part in 12 Weekend Institutes and four weeks of Summer Institutes over the life of the project. They are working with their local supervisors to develop in-service for up to 20 other teachers in their school system. The result of these efforts will be improved instruction that will prepare Technology Education students to effectively use, assess, design, and produce technology. By focusing on the nine core technologies, proven teaching/learning strategies, and the cultivation of leadership skills, the Technology Education Leadership Project is making a major contribution to the development of Technology Education in Maryland.

**Maryland Center for Career & Technology Education Studies**  
BY BOB GRAY

1425 Key Highway, Baltimore, Maryland 21230

Phone: 410/685 - 1648 or Fax: 410/685 - 0032

Office Hours: Monday through Wednesday - 9:30 A.M. to 8:00 P.M.

Thursday and Friday - 9:30 A.M. to 2:30 P.M.

The mission of the Maryland Center for Career and Technology Education Studies (MCCTES) is to provide leadership and support to local education agencies, educators and community organizations in the development of competent and appropriately educated and certified Career and Technology Education teachers and administrators. The Maryland Center serves to facilitate cooperation among and between local education agencies, the Maryland State Department of Education, the University of Maryland System, community organizations and businesses. The Center develops, organizes and conducts activities meeting teacher education needs, and promotes the growth of Career and Technology Education in Maryland.

The Maryland Center for Career & Technology Education Studies is operated by the Baltimore Museum of Industry with guidance and funding support from local school systems and the Maryland State Department of Education. School systems participating in the MCCTES Consortium include: Anne Arundel, Baltimore, Carroll, Charles, Dorchester, Harford, Howard, Montgomery, Prince George's, St. Mary's, Talbot Counties, and Baltimore City.

Each semester, teachers from across the state earn college credit or state workshop credit through the MCCTES. Undergraduate and graduate courses are delivered from the University of Maryland Eastern Shore's (UMES) Department of Technology. This fall, MCCTES offered the first graduate course in the Master of Education (M.Ed.) program in Career and Technology Education. This professional degree program is designed to prepare teachers and administrators to meet the Advanced Professional Certification (APC) standards in Maryland. The program offers strands in Technology Education and Occupational Education.

to page 5

# TECHNOLOGY EDUCATION ASSOCIATION OF MARYLAN

*Providing Leadership in Technology Education*

## Membership Application

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ M.I. \_\_\_\_\_  
Home Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip code \_\_\_\_\_  
School \_\_\_\_\_  
Employer \_\_\_\_\_

**TEAM Dues:** \$16.00 Professional Membership,  
\$4.00 Student Membership.

*Please complete the application, enclose a check made payable to  
TEAM and mail to:*

**Robert C. Gray  
4323 Lord Fairfax Court  
Upper Marlboro, Maryland 20772**

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*from page 4*

Dr. Charles Beatty taught the first course in the program, Technology Education: Content, Methods and Strategies, during the fall semester. Students will complete a state-approved program of study including at least 30 semester hours of graduate credit. Six credits will be required in a capstone research experience.

The Master of Education program combines career and technology education content with professional education theory and practice. Major components of the program focus on essential elements of teaching, the core technologies, and recognized teaching/learning strategies.

Renovations of the MCCTES building at the Baltimore Museum of Industry are underway. Improvements to the facility include a new heating and air-conditioning system, new lavatories, and an elevator. Classrooms and offices are being refurbished and a new entrance/lobby area is being constructed. Fall classes are being held in the Museum's main building. We hope to be back in our normal location by April.

The schedule of courses for the spring semester will be mailed in November. If you are not on our mailing list and would like to be, call us at 410-685-1648. Ms. Linda McNeil, the center's Administrative Assistant, will make sure you are notified of upcoming activities.

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1/4" x 1/16" 50 pcs. \$11.95	500 pcs. \$199.00
1/4" x 1/8" 50 pcs. \$14.95	500 pcs. \$279.00
1/4" x 1/4" 50 pcs. \$18.95	500 pcs. \$359.00
1/2" x 1/4" 10 pcs. \$14.30	50 pcs. \$143.00
1/2" x 1/2" 10 pcs. \$18.30	50 pcs. \$183.00
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1/2" x 1/8" 50 pcs. \$1.95	500 pcs. \$69.50
1/2" x 1/16" 50 pcs. \$1.45	500 pcs. \$59.50

**Hello Fellow Technology Educators, Greetings from Montgomery County**

CHANGE is the wave in Montgomery County. Let's give special congratulations to Mr. Barry Burke. Mr. Burke, former Coordinator of Industrial and Technology Education and ITEA president, has accepted an appointment from the BOE to Director, Division of Career and Technology Education. Thank you Barry for all that you have done as

Coordinator.

Our Fearless Leader was not the only person making changes in Montgomery

County. We have:

- 6 new IRT/RT Kenneth Dudley Construction Trades Foundations
- Bill Falatko North Bethesda MS IRT
- Frank Krach Takoma Park MS IRT
- Brian Niekamp John T. Baker MS IRT
- Jack Wicker Edison Technology Center RT
- 2 retirements Robert Bokinski Edison HS of Technology
- Tom Kemp Edison HS of Technology
- 2 new support personnel in the office of TE and T and I
- Rob Segreti
- Damien Smigocki

Congratulations and good luck to all. Christopher A. Colbert

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**MARYLAND ENGINEERING  
CHALLENGES 2000**

.....

It is time again to register for the Maryland Engineering Challenges, held at the Baltimore Museum of Industry. These events, which started in 1991, are well worth the time spent.

This year there are fourteen challenges for groups of students in grades 1 – 12 sponsored by the Engineering Society of Baltimore, Baltimore Museum of Industry and the Technology Education Association of Maryland. The problems are based on the Ingenuity Challenge theme and are designed to introduce young people to the role of Engineering in today's society.

The challenges involve four main components: A written report (submitted two weeks in advance), an oral report, the design and construction of the entry and its performance at the Museum.

This year the fourteen challenges include:

**Three for Elementary School:**

- Safe Racer Challenge (Grades 1 to 3) - Design and develop a vehicle to enable Egbert the egg-man to survive a car crash.
- Story-Book Theme Park Ride (Grades 4 & 5) - Design and develop a model ride for a theme park.
- Paper Aeroplane Challenge (Grades 1 to 5) - Details available in late October.

**Five at the Middle School Level:**

- Powered Maglev Challenge – Design and construct a model magnetic levitation train.
- Straw Bridge Challenge – Design and construct a model road bridge made from soda straws.
- Manufacturing Challenge – Design and manufacture a board game.
- Hovercraft Challenge – Based on the kit provided, design and construct a model hovercraft.
- Recycling Challenge – Details available in late October.

**Seven at the High School Level:**

- Tractor Pull Challenge – Design and construct a vehicle, powered by a 9 volt motor, to pull the maximum possible weight over a six inch course.
- Aircraft Challenge – Design and construct a model aircraft to lift the maximum possible payload in a circular tethered flight.
- Robot Challenge – Based on the kit provided, design and build a motor powered walking robot.

- Sail Boat Challenge – Design and build a remote controlled sailboat to navigate a course in the Baltimore Inner Harbor.
- Cargo Ship Challenge – Design and build a remote controlled cargo Ship to carry the greatest payload throughout a course in the Baltimore Inner Harbor.
- Environmental Challenge – Using the kit provided design a process to reduce the amount of phosphorus in runoff water entering the Chesapeake Bay.
- Wood Bridge Challenge – Design and develop a model highway bridge that will support the most load with the least mass. Bridges will be tested to failure. Winners will go to the national contest.

**All Contests will be held at the Baltimore Museum of Industry, the dates are as follows:**

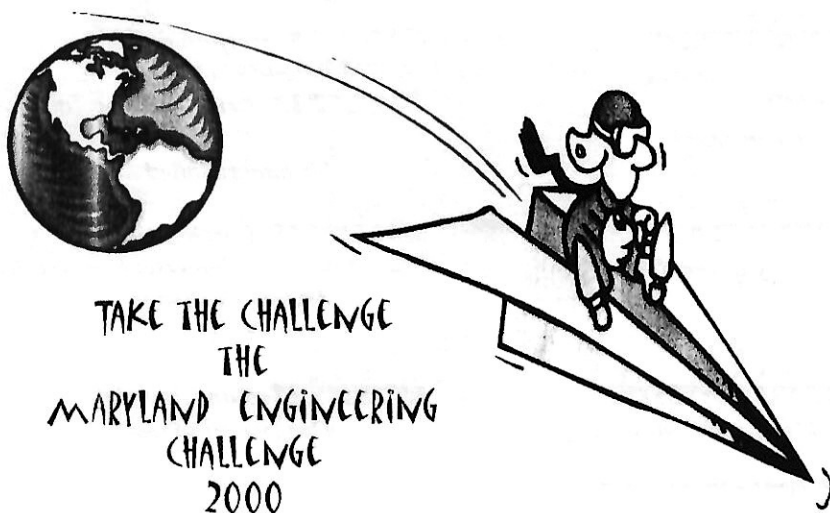
- Elementary School Challenges are Saturday February 19, 2000
- Wood Bridge Contest is Saturday February 26, 2000
- All other High School Challenges Saturday April 22, 2000
- Middle School Challenges Saturday May 6, 2000

A workshop will be held for all contests on November 17<sup>th</sup>, coordinators for most events will be there to conduct seminars and offer advise, the challenges will be demonstrated and you will have the opportunity to meet with the event coordinators and other participating teachers.

Another workshop will be offered in early spring.

For more information please contact Linda McNeil, the Engineering Challenge Assistant at 410-685-1648

See you there!!



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**TEAM Report**

**Winter 1999**

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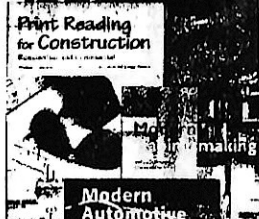
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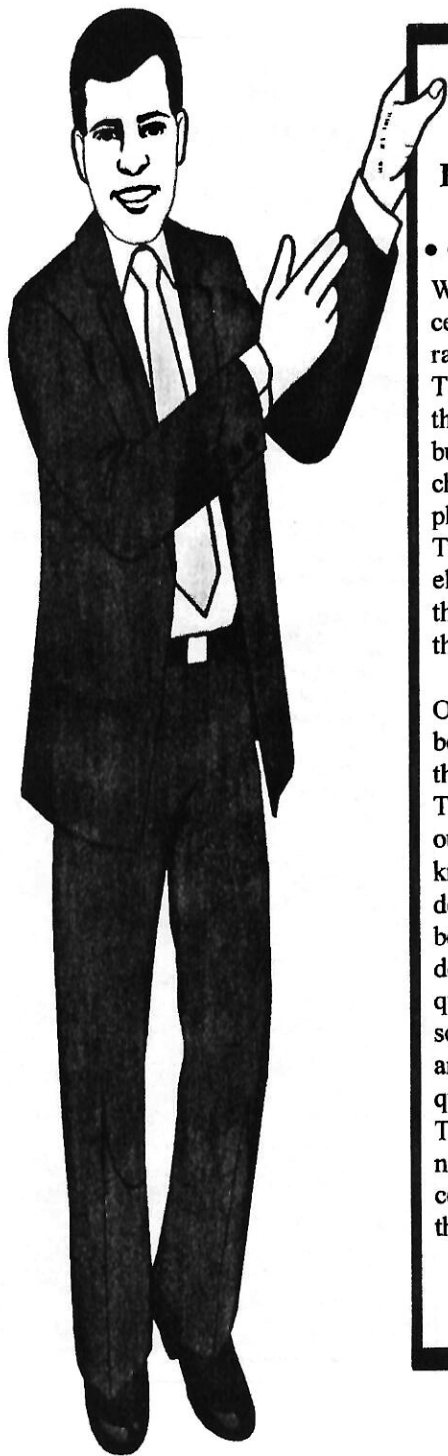
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## **The Emergency Certification Program for Technology Education BY BOB GRAY**

Who are these folks who are working toward certification in our field? This is a question raised by technology teachers around the state. The answer varies greatly. Teachers eligible for the program may be from the areas of biology, business education, chemistry, social studies, general science, physics, mathematics, or history. Many are Trades and Industry teachers who hold bachelors degrees. Their program, which includes 5 three-credit courses, includes a combination of theory and practice.

Over the last nine months, thirteen courses have been held across the state for teachers meeting the eligibility requirements for the program. Their enthusiasm and performance have been outstanding. The ranges of knowledge and skills they bring to this endeavor lead us to believe that they will, indeed, be excellent technology teachers. As we work desperately to fill teaching positions with qualified people, this program is enabling school systems to meet needs in a most difficult area to staff. We are all aware of the shortage of qualified teachers and the unique situation of Technology Education as an area of critical need. As you come in contact with these newly certified technology teachers, please welcome them warmly to our ranks.

**News From the Baltimore Museum of Industry:  
Headquarters of the  
Technology Education Association of Maryland  
BY BOB GRAY**

.....  
**The Technology Education Association of Maryland (TEAM) support of the Baltimore Museum of Industry (BMI) will be permanently recognized by an engraved paving block in the walkway around the museum. The 8" x 8" block with the name of our organization written on it in block letters is a symbol of the close relationship between BMI and our state professional organization. The museum's walkway is part of a public walkway that will extend around the Baltimore Harbor from the Museum of Industry to the historic waterfront of Canton.**

Construction has begun on the museum building at 1425 Key Highway. This structure has housed the Maryland Center for Career and Technology Education Studies for the past five years. When completed, MCCTES operations will resume in the building and the Baltimore Museum of Industry's administrative offices will be located in the building.

In addition to new heating and air conditioning systems, the renovation will add accessible restrooms, and an elevator/ stair tower attached to the east elevation that will provide handicapped entry to all four floors. The second floor will house the offices of the Maryland Center for Career and Technology Education Studies and TEAM as well as two classrooms.

Current and upcoming exhibits at the Baltimore Museum of Industry include Poster Power: Building Public Support for the War Effort, 1941-45; Signs of the Times: Mass Marketing & Mass Production; Fruits of Labor: Food Processing in Baltimore; Maryland Transportation Systems: Civil Engineering Travels to the Future; and Communications: The Birth of Baltimore Broadcasting.

Technology teachers should consider visiting the Baltimore Museum of Industry and, perhaps, bringing a class to the museum for a field trip. For information on the Museum Programs call Margaret Leonard at 410-727-4808 x 111.

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For more information contact ITEA at: (703)860-2100 or visit our Web site at the address above.

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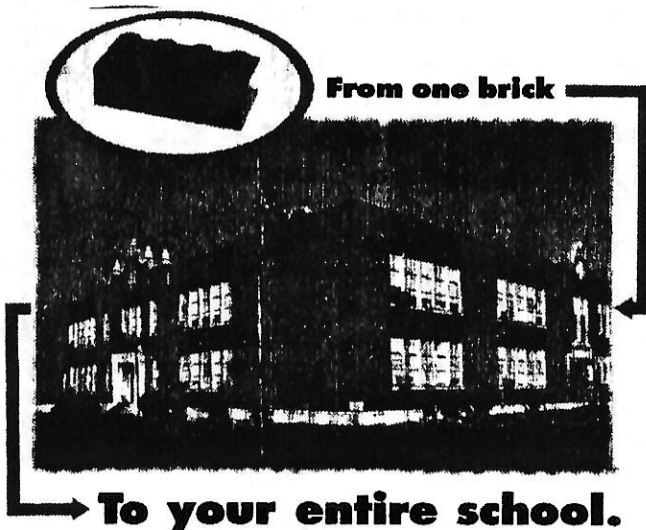
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Undergraduate Scholarship**

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The Technology Education Association of Maryland proudly announces the Donald Maley Technology Education Teacher Scholarship in honor of Dr. Donald Maley. Its purpose is to support teachers in their preparation to increase the positive outcomes of technology education. The scholarship is given annually to a freshman undergraduate student majoring in technology education teacher preparation. The award is based upon interest in teaching, academic ability and faculty recommendations.

**Eligibility Requirements:**

- Applicant must a 1999 graduate of a Maryland High School.
- Applicant must be a current, full-time (as defined by the respective institution) undergraduate majoring in technology education teacher preparation.
- Applicant must be a member of the school's TECA (Technology Education Collegiate Association) chapter (if one exists).

**Application and Deadline:**

Application package postmarked must be received by 5:00 p.m. November 8, 1999, which consists of four sets of the following required items:

- Cover letter of application with applicant's address with day and night telephone numbers, and email address.
- Letter of application that includes statement about personal interest in teaching technology education.
- Applicant's resume or vita. Material should identify career goals, high school and college activities and achievements.
- A photocopy of applicant's high school transcript. A grade point average of 2.3 or more (on a 4.0 scale) is required.
- Proof of full-time enrollment in a technology education program at an accredited college or university.
- Three faculty recommendations. Applicant must show support for application by having his/her professors and/or advisor provide letters of recommendations. Applicants are encouraged to have a combination of high school and college recommendations.

**Mail to:**

**Mr. Barry N. Burke  
Maley Scholarship Committee  
Montgomery County Public Schools  
850 Hungerford Drive, Room 269  
Rockville, MD 20850  
barry\_burke@fc.mcps.k12.md.us  
Phone: 301-279-3567  
FAX: 301-279-3399**

**Scholarship Presentation:**

The scholarship is presented at the annual TEAM Donald Maley Awards Program. The winner does not have to be present to receive the scholarship.