

# TEAM Newsletter

Technology Education Association of Maryland (410) 659-5332

Spring, 2006 Volume 16, Number 2



The President's Corner

**Key Dates:**

ITEA Conference- March 23-25, 2006 at the Baltimore Convention Center

TEAM Awards Banquet- Oct. 19, 2006

MD Tech EXPO- Friday, October 20, 2006

**TEAM MCCTES**

Baltimore Museum of Industry  
1415 Key Highway,  
Baltimore, MD 21230  
(410) 659-5332

## ITEA ANNUAL CONFERENCE - BALTIMORE 2006

Dear TEAM Member,

The Technology Education Association of Maryland (TEAM) had another successful year. The Maryland Tech Expo, which is the annual Technology Education teacher state meeting held in October, draw about 150 participants from across the State. Science, math, and Technology Education teachers and administrators attended the one-day conference which featured workshops, hands-on demonstrations, CATTs material dissemination, and several sessions on the new Maryland Voluntary State Curriculum for Technology Education(VSC).

Continued on page 2

TEAM is excited to be a part of this year's ITEA Conference. Several events are sponsored by TEAM at the conference.

Thanks to all the TEAM volunteers helping with ITEA registration at the conference.

There are over 1100 pre-registered for the conference along with over 100 special interest sessions. All the information is on the web at <http://www.iteaconnect.org/D3.html>

The official conference program is also online at <http://www.iteaconnect.org/BaltimoreConferenceProgram.pdf>

A large trade show and several area tours, workshops, presentations, reunions,

and more are just a few of the reasons to attend.

Hope to see you there!

Many TEAM members are presenting at the conference including: *Ruth E. Akers and Christopher Putnam, Jerry Day, Roger Beechener, Thomas Pless, Christopher Gray, Robert Gray DTE, Ed Ball DTE, Barry Burke DTE, and Marquita Friday*

**Support TEAM  
PINS PINS PINS!**

Check out the Pins TEAM has available for a "\$3 donation" -



They will be at the TEAM table at the ITEA conference. The TEAM table will be located near the ITEA registration

Cal Ripken autographed photo and ball for auction – proceeds go to TEAM  
\$1 a chance, 8 for \$5 at the TEAM table near the ITEA registration

**UMCP Reunion at ITEA Conference**  
Designated Hitter's Lounge, 4th floor, Baltimore Orioles Warehouse Building outside stadium  
Call Jerry Day at 410 659-5332 and leave a message that you will be coming.  
\$45 - Pay at the door



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**President's Corner cont'd.**

The VSC is a follow-up document of the Maryland Instructional Framework for Technology Education. The VSC details curriculum guidelines for the five Maryland content standards which were based on the twenty ITEA content standards. The night before the conference, the annual Awards of Excellence dinner was held where outstanding middle school and high school Technology Education teachers and programs were recognized. Kendall Starkweather was the keynote speaker and he was presented with the Maryland TEAM Lifetime Achievement Award for his 25 years of leadership with ITEA.

TEAM has a membership of 130 members, and a campaign to recruit new members is taking place this spring 2006. It is hoped that membership will grow to 200 over the next few years. New leadership has taken over, and a strategic plan will be developed to

guide the organization over the next five years. TEAM has developed a new and exciting website, published quarterly electronic newsletters, has a professional journal in the works, and has sponsored and participated in several state engineering challenges.

TEAM will be active at the 2006 ITEA Conference being held in Baltimore. They will have volunteers handling a variety of responsibilities, from registration to hosting sessions. Several TEAM members are presenting workshops, roundtables, and sessions during the conference. The University of Maryland Eastern Shore (UMES) is hosting the Foundation of Technology Education Maley Breakfast on Friday morning, March 24. A reunion of University of Maryland College Park alumni, staff, and faculty will also take place Friday night, March 24 at Oriole Park at Camden Yards. Professional education tours are being hosted by TEAM members.

Will Johnson

**TEAM Talk**  
**TEAM**  
**Executive**  
**Director**  
**Comments**  
**By Gerald F.**  
**Day, PhD**

It is my pleasure to serve TEAM as the newly appointed Executive Director. Among my goals are to improve services and products to TEAM's membership, and become more involved in major educational initiatives in Maryland. We have a new leadership team who is doing an outstanding job during this transitional period. We plan to develop a new strategic plan during the summer that will provide all technology, engineering education, and related teachers with new and improved professional development activities and products throughout the year.

The annual Tech Expo in October, Awards of Excellence, and Engineering Challenges will continue to be part of TEAM's activities. New activities are being planned to deliver cutting-edge techniques to classroom teachers throughout Maryland. The main purpose of TEAM is to provide leadership, advocacy, products, and services to its members. We are fully dedicated to this purpose.

Although TEAM is currently one of the largest and most active professional organizations in Maryland, we would like to increase our membership even more and have our members actively involved.

If you have any suggestions or recommendations for new products and services that TEAM can provide you to do a better job, please do not hesitate to contact Gerald Day at 410-659-5332 or [gfd@umes.edu](mailto:gfd@umes.edu) or any member of the executive board. Thank you for your continued support and dedication to Technology Education.



**Students from Roland Park that competed in the MagLev middle school Engineering Challenge held at the Baltimore Museum of Industry on Sat. March 4, 2006**

**LOOKING AHEAD –**  
**TEAM Conference - Tech Expo**  
Baltimore Museum of Industry  
Friday, October 20, 2006  
8 am - 3 pm  
Online Conference Registration will be available August 2006!

**TEAM Annual Maley Awards Dinner**  
Oct. 19, 2006 – at *La Fontaine Bleu* Restaurant



## YOUR TEAM NEEDS YOU TO:

Serve as committee members,

Serve as District Reps,

Help with the upcoming Baltimore 2006 Convention

Be workshop presenters at the 2006 Tech Expo,

Help with TEAM sponsored workshops,

Supply articles for our newsletter and website,

Help find sponsors for upcoming TEAM events,

For more info contact Will Johnson

[teamboardmd@hotmail.com](mailto:teamboardmd@hotmail.com)

Check out the *redesigned* TEAM website. As a member you get an email account and access to our growing resources. There's even a message board now. You can check your membership status too.

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

Your address for keeping up-to-date with all things Tech Ed

## UMES Graduate Program News

### May 2006 Graduates

The following individuals are scheduled to graduate in May 2006 with their Master of Education Degree in Career and Technology Education:

**Baxter Brown**

Prince George's County Public Schools

**Thomas Bullerman**

Baltimore County Public Schools

**Jennifer Calix**

Highland Park Christian Academy, Prince George's County

**Christopher Fox**

Howard County Public Schools

**Sharon Green**

Prince George's County Public Schools

**Paul Hoyt**

Frederick County Public Schools

**Marcus Lee**

Montgomery County Public Schools

**Ralph Olson**

Baltimore County Public Schools

**Michael Tedeschi**

Baltimore County Public Schools

**Christopher Wright**

MESA, John's Hopkins University Applied Physics Lab

Graduation ceremonies will take place May 19, 2006 on the UMES campus in Princess Anne, Maryland.

Congratulations to the class of 2006!! This brings a total of 48 who have graduated from the masters program in the last 5 years.

### Olson wins Graduate Research Citation Award

Congratulations to **Ralph Olson**, who was presented with an Outstanding Graduate Research Citation Award at the Maley Foundation of Technology Education's Awards of Excellence Breakfast on March 24, 2006. This award is presented to select few graduate students from across the nation who have demonstrated outstanding scholarship throughout their graduate program. Ralph is currently a technology education teacher at Franklin High School in Baltimore County.

**"...a select few..."**

Mr. Olson is also the newly appointed treasurer for the Technology Education Association of Maryland (TEAM). Congratulations to Ralph!

### UMES ITEA Activities

UMES was involved in several activities during the 2006 ITEA International Conference held in Baltimore on March 22 – 25, 2006. The Department of Technology hosted the Maley Award of Excellence Breakfast, had an educational booth in the vendor exhibit hall, and faculty members and graduate students made several presentations during the conference. **Barry Burke, Gerald Day, Bob Gray, and Mike Shealey** made presentations on topics dealing with CATTs, NCATE,

## Doctorate Program

### EDLD Program

Applications for the Education Leadership Doctorate Program (EDLD) are due April 1, 2006. There is a strand in Career and Technology Education in this unique weekend EdD program. Please consult the UMES website for details and application. Applicants must have a masters degree in an area related to Career and Technology Education to be admitted to the program. This three-year program involves core courses, strand courses, an internship, and dissertation. For further information, contact Gerald Day at 410-659-5332 or [gfday@umes.edu](mailto:gfday@umes.edu) or Harry Hoffer at 410-651-8361 or [hehoffer@umes.edu](mailto:hehoffer@umes.edu).

Maryland Voluntary State Curriculum in Technology Education and Animatronics. Leon Copeland was the emcee of the Awards of Excellence Breakfast. UMES undergraduate and graduate students volunteered for a variety of activities ranging from handling registration to hosting sessions.



Winners of the MagLev competition – Pine Grove Middle School

# Technology Education Association of Maryland

Affiliated with the International Technology Education Association - ITEA

## UMES COURSEWORK

**TEAM  
Membership  
Renewal**  
**\*Now with  
convenient 3  
year  
membership  
– see page 12**

**NEW!**



**NASA Column –  
see page 10**

### **Summer and Fall Courses**

Registration for summer and fall graduate courses will take place **April 3 – 14, 2006**. Registration will take place on-line using the HawkWeb system. Courses being offered this summer include:

#### **Required Courses**

EDUC 610 – Learning and Instructional Design  
CTED 615 – Administration and Leadership

#### **Possible Elective Courses**

EDTE 437 – Student Performance Assessment  
EDTE 440 – Integrating Math and Science in Occupational and Technology Education  
EDTE 445 – American Industry & Global Competition  
EDTE 483 – Core Technologies II  
EDTE 499 – Research and Experimentation  
CTED 630 – Special Problems in CTE

Courses being offered in the fall 2006 include:

#### **Required Courses**

CTED 602 – Instructional Management and Organization  
CTED 640 – Research in Career and Technology Education I

#### **Possible Elective Courses**

EDTE 437 – Student Performance Assessment  
EDTE 440 – Integrating Math and Science in Occupational and Technology Education  
EDTE 482 – Core Technologies I  
EDTE 484 – Information Systems I  
EDTE 488D – Coordination of Work-Based Learning Programs  
EDTE 499 – Research and Experimentation



**Mars Challenge Vehicle from 3/4/06**

For more information about the **Mars Challenge**, contact Paul Wiedorn at [pwiedorn@bcps.org](mailto:pwiedorn@bcps.org)

## TEAM Feature Articles Spring, 2006

### **Maryland Technology Education Professional Development 2006 reported by Bob Gray**

The Maryland State Department of Education (MSDE) has joined forces with the Center to Advance the Teaching of Technology and Science (CATTS) and the International Technology Education Association (ITEA) to deliver professional development opportunities for Maryland's for Technology Education teachers and administrators. The goal is to assist local school systems in implementing programs that align with the newly adopted Code of Maryland Regulations (COMAR) for Technology Education and the Maryland Voluntary State Curriculum.

The International Technology Education Association (ITEA) developed the national standards for technological literacy on which the Maryland Voluntary State Curriculum is based. Additionally, ITEA's Center to Advance the Teaching of Technology and Science (CATTS) has developed a series of standards-based Technology Education model course guides at the elementary, middle and high school levels. Maryland has access to the following guides:

#### **High School**

- Foundations of Technology (One-credit Graduation Requirement)
- Technological Issues (Advanced Technology Education)
- Technological Impacts (Advanced Technology Education)
- Engineering Design (Advanced Technology Education)

## Middle School

- Invention and Innovation
- Technology Systems

Every school system in Maryland has identified one middle school and one high school to be a CATTs Demonstration Site. As a demonstration site, Technology Education teachers will have access to online professional development and learn strategies to assess students' abilities in meeting the state and national standards.

High school teachers will gain a thorough understanding of the "Foundations of Technology" model course guide, and middle school teachers will gain a thorough understanding of the "Invention and Innovation" model course guide. Both groups will develop resources, share exemplars and apply researched-based practices that will be shared throughout the state. Concurrently, supervisors will be led through a series of facilitated discussions and activities on the four ITEA addenda guides:

- Meeting 1: "Realizing Excellence" which speaks to program development
- Meeting 2: "Planning and Learning" which speaks to curriculum development
- Meeting 3: "Measuring Progress", and
- Meeting 4: "Developing Professionals."

The four meetings will culminate in an Institute in which school systems will send up to 10 middle and high school teachers to spend four days working on their school system's local curriculum. The school teams will have an opportunity to interact with content coaches and experts in preparing their curriculum for the upcoming school year. The curriculum institute will be from June 20 – 23, 2006.

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### TEAM Spotlights the Engineering Challenges -

thanks to Kris Spaulding for reporting this article

TEAM is a cosponsor of the Maryland Engineering Challenges

Kris Spaulding  
Schools Coordinator  
Maryland Future City Competition  
[www.futurecity.org](http://www.futurecity.org)

National Engineer's Week

## Future City Competition

<http://www.futurecity.org/>

### Sponsored by:

[Maryland Section, American Society of Civil Engineers](#)

[Maryland Society of Professional Engineers](#)

[Society of Military Engineers](#)

**Age/Grade Group:** Grades 7 and 8

**Team Size:** Three students, teacher, and engineer mentor

**Challenge:**

DESIGN AND BUILD A CITY OF THE FUTURE!



## **FUTURE CITY COMPETITION -**

Each team will design a city in the future using award winning SimCity 3000 software. A project plan is developed with the help of the teacher and an engineer mentor, paying special attention to residential, commercial and industrial areas, power plants, transportation systems, and communications systems. Students address important issues such as pollution, traffic density, taxes, and budgets while designing their city.

### **Competition Guidelines:**

Teams representing the school at the regional competition will consist of three students (must be from the same school), an engineer mentor, and a teacher sponsor.

The students, with the help of the engineer mentor and the teacher sponsor, will design the computer model of the city using SimCity 3000.

SimCity software will be provided to all registered schools. More information on SimCity 3000 software can be found at <http://www.sc3000.com/>.

The team will construct a scale model of the city section using recycled materials (plastic jugs, glass jars, aluminum cans, tubing, etc) in their designs.

The students will write an abstract describing key design features of their city, and the students will explain the unique design features of their city during a team verbal presentation.

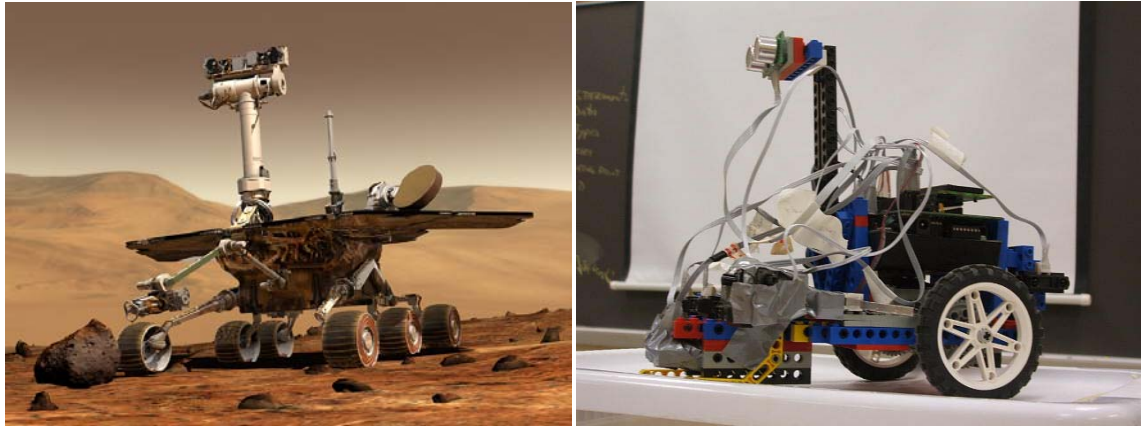
### **Competition Schedule:**

ACTIVITY	DUE DATE
Registration:	April - October 2006
Project plan:	Early November 2006
Logical model due:	Late November 2006
Essays due:	December 2006
Physical model complete:	January 2007



**Technology Education Association of Maryland**  
Affiliated with the International Technology Education Association - ITEA

# MARS TODAY, ENGINEERING TOMORROW



By Matthew Hoffman

Mars, 4,223 miles in diameter, 47 million miles from Earth, and home to the gigantic volcano Olympus Mons, is a planet that has fascinated scientists for centuries. Whether it be the cradle of ancient life, or the awaiting home of future men, curious minds endeavor to unlock the secrets of this Red Planet. To investigate this neighbor of Earth, engineers devote lifetimes of research, skill, and ingenuity towards landing vehicles on Mars. With intricate sensor arrays and complex mission profiles, these rovers allow scientists to examine Mars from a distance. Although designing these vehicles is the role of professionals, a similar opportunity can be found much closer to home for local high school students.

Hosted by the Baltimore Museum of Industry and sponsored by TEAM (among other organizations), the 2006 Maryland Engineering Challenges present high school students with engineering tasks comparable to real-world assignments. For the Autonomous Mars Rover competition, the objective was to design and build a robot that could maneuver a course resembling the Martian surface. Starting from one end of the track, teams had three minutes to traverse the course. After being dropped from a landing craft, the robots were required to maneuver around obstacles in search of a red coffee can. Since this can represented a Martian rock of interest to scientists, the robots were required to touch it with the end of a pencil “probe”. Like the cutting-edge robots found in industry, these rovers had to complete their task with the

sole guidance of programmable electronics. Yet mission success was not the lone criteria on which students were graded. Rather, each team was evaluated based on their written report, oral presentation, quality of construction, and performance. After all, the purpose of the Maryland Engineering Challenges is to expose students to the engineering *process*, not just the end result.

Yet when the results were announced on Saturday, March 4<sup>th</sup>, the 1<sup>st</sup> Place award for autonomous rovers went to Long Reach High School in Columbia, MD. However, this award could not have come without hours of frantic problem solving and teamwork. From the moment they arrived at the Baltimore Museum of Industry, team *Finding Io* was faced with the challenges that they had least expected. Before reaching the front door, senior Vandan Desai had already locked his keys in his car, along with the team's laptop! Without this computer, the team would have been hard-pressed to upload their code for the robot's "Handy Board" microcontroller. Once this issue was resolved, the team then had to contend with the effects of a bright sun. Never having tested their robot outside, the team was surprised when the rover wandered off-course on the first attempt. The problem was that IR radiation from the sun was overwhelming the line-following sensors. Fortunately, a creative solution was at hand. Using a Dunkin Donuts box and duct tape, the team created a shroud to shield the sensors from ambient radiation. With the sensors functioning properly, the robot was at least able to attempt the course. However, the performance showed that sometimes the best solution really is to "Keep It Simple Stupid".

Rather than take the simple route, *Finding Io* opted to use a complex array of touch sensors, IR rangefinders, IR reflectance sensors, and sonar. Although interesting to watch, the robot could not overcome a plastic joining section two-thirds of the way to the coffee can; and was beat out by two smaller robots. The team attributes part of this to building a test course that was slightly different from the competition track. While disappointed, the team is upbeat about learning the importance of calibrating equipment to the *exact* conditions that it will encounter. The team was also glad that their hours of work on documentation paid off. After winning the awards for best oral presentation and written report, and demonstrating on-the-spot problem solving, *Finding Io's* score was enough to win 1<sup>st</sup> place.

Looking back, the team enjoyed the experience because of its technical challenges and practical life lessons. As team leader Matt Hoffman explained, "In addition to gaining technical knowledge for our academic endeavors, we learned critical teamwork and project management skills." For two of the members, the contest further affirmed their goals to pursue careers in engineering. Already a member of the Long Reach Rocket Team, Johnna Esposito is now determined to pursue a degree in the aerospace discipline. Having learned that, "My organizational skills and constant flow of ideas are my greatest contributions to team projects," the senior looks

forward to meeting the aerospace challenges of the future. Although Vandan plans to pursue a career in dentistry, he believes that, “The teamwork and research elements of this experience will help me overcome future challenges.” Mars or no Mars, the graduating seniors enjoyed the engineering challenge of the 2006 Mars Rover Competition.

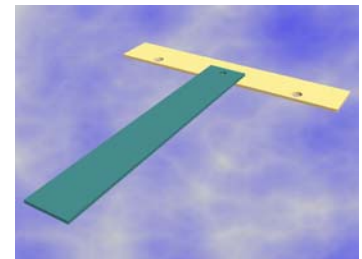


From left to right: Johnna Esposito, Matt Hoffman, and Vandan Desai. Far right, Will Johnson – TEAM President

## Design and Technology for Middle school and Beyond Using ProDesktop 3D CAD Drawing

by Christopher Putnam

Giving students a real experience in using 3D software helps them to understand the process of designing and developing a product. With this software kids can make a design, create a working drawing, and then present the idea in a rendered material and color scheme. This software also shows the students the connection between math and technology. Measurements are applied in student designs and instructions. In our Baltimore County beginner TechEd course students actually build a ruler and then recreate it on the computer.



In 8<sup>th</sup> grade students continue using CAD software. They start off by creating a cell phone using instructions. The next task is to take their experience and create a design of their own of a small electronic device.

Young students using CAD gain new understanding of the design process. This activity also opens up students to new career options that they hadn't thought of before. Engineering seems more within their grasp when students



participate in this type of activity.

ProDesktop is a product made by PTC. PTC is a sponsor of the ITEA conference. They have a booth at the conference and will be running activities as well. TEAM assisted in training teachers in 2 separate workshop series. Teachers that complete the requirements of the workshop receive a software license to use PTC software in their school building. If you are interested in taking a PTC workshop, contact me at [cputnam@bcps.org](mailto:cputnam@bcps.org). Instructions and more resources that I use with my students are available at [http://dumbartonms.bcps.org/teched\\_gr8cad.htm](http://dumbartonms.bcps.org/teched_gr8cad.htm)

from NASA – Space Place website

## Moving a Mountain of a Dish by Patrick L. Barry



Your first reaction: "That's impossible!" How on earth could someone simply *pick up* one of NASA's giant Deep Space Network (DSN) antennas—a colossal steel dish 12 stories high and 112 feet across that weighs more than 800,000 pounds—move it about 80 yards, and delicately set it down again?

Yet that's exactly what NASA engineers recently did. One of the DSN dishes near Madrid, Spain, needed to be moved to a new pad. And it had to be done gingerly; the dish is a sensitive scientific instrument full of delicate electronics. Banging it around would not do.

"It was a heck of a challenge," says Benjamin Saldua, the structural engineer at JPL who was in charge of the move. "But thanks to some very careful planning, we pulled it off without a problem!"



The Deep Space Network enables NASA to communicate with probes exploring the solar system. Because Earth is constantly rotating, a single antenna on the ground can communicate with a probe for only part of the day, when the probe is overhead. By placing large dishes at three locations around the planet—Madrid, California, and Australia—NASA can maintain contact with spacecraft around the clock.

To move the Madrid dish, NASA called in a company from the Netherlands named Mammoet, which specializes in moving massive objects. (Mammoet is the Dutch word for "mammoth.")

On a clear day (bad weather might blow the dish over!), they began to slowly lift the dish. Hydraulic jacks at all four corners gradually raised the entire dish to a height of about 4.5 feet. Then Mammoet engineers positioned specialized crawlers under each corner. Each crawler looks like a mix between a flatbed trailer and a centipede: a flat, load-bearing surface supported by 24 wheels on 12 independently rotating axes, giving each crawler a maximum load of 194 tons!

One engineer took the master joystick and steered the whole package in its slow crawl to the new pad, never exceeding the glacial speed of 3 feet per minute. The four crawlers automatically stayed aligned with each other, and their independently suspended wheels compensated for unevenness in the ground.

Placement on the new pad had to be perfect, and the alignment was tested with a laser. To position the dish, believe it or not, Mammoet engineers simply followed a length of string tied to the pad's center pivot where the dish was gently lowered.

It worked. So much for "impossible."

Find out more about the DSN at <http://deepspace.jpl.nasa.gov/dsn/> . Kids can learn about the amazing DSN antennas and make their own "Super Sound Cone" at The Space Place, <http://spaceplace.nasa.gov/en/kids/tmodact.shtml>.



NASA created the Space Place program to give educators and students the opportunity to explore the space program's technological advancements and to delve into its discoveries. A component of that outreach, the Space Place column, is offered to select venues like your newsletter. Our column includes varied topics from all of the areas within NASA -- planetary exploration, observing Earth from space, and even spinoffs from space.

In addition, The NASA Space Place program has two web sites aimed at children but equally as fun and educational for adults. We invite you to explore these web sites at <http://spaceplace.nasa.gov> or the spanish version at <http://spaceplace.nasa.gov/espanol>.

***Technology Education Association of Maryland***

Affiliated with the International Technology Education Association - ITEA

TEAM

Dr. Gerald Day, Executive Director  
1415 Key Highway  
Baltimore, Maryland 21230

TO:



Technology Education Association of Maryland  
**School Year 2005-2006**  
**Membership Form**

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**Personal Information: PLEASE PRINT LEGIBLY**

Name: \_\_\_\_\_ Membership #: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Phone: \_\_\_\_\_ Email: \_\_\_\_\_

School/University: \_\_\_\_\_ County: \_\_\_\_\_  
(employed/attending) (employed/attending)

.....  
**Professional Information:**

FIELD: Technology Education Engineering Technical/Vocational Education Other

POSITION: Teacher Professor Administrator Student Other

LEVEL: Elementary Middle High College/University Other

.....  
**Membership Fees:**

**Please make check payable to TEAM**

Professional Member:	\$20.00	<input type="checkbox"/> Renewal	<input type="checkbox"/> New	<input type="checkbox"/> \$50.00/3 years
Retired Professional Member:	\$0.00	<input type="checkbox"/> Renewal	<input type="checkbox"/> New	
Undergraduate Student:	\$10.00	<input type="checkbox"/> Renewal	<input type="checkbox"/> New	
Lifetime Membership:	\$400.00		<input type="checkbox"/> New	

.....  
**Please Return Completed Form and Payment to:**

**TEAM – Technology Education Association of Maryland**  
**MD Center for Career and Technology Education Studies**  
**1415 Key Highway**  
**Baltimore, MD 21230**  
**Attn: Dr. Gerald Day**

.....  
**For Office Use Only:**

**Date Entered :** \_\_\_\_\_ **Membership # Assigned:** \_\_\_\_\_ **Amount:** \_\_\_\_\_