

TIME Center Recognized

Special points of interest:

- Sustainable organizations
- Funds for teachers and staff members
- Robotics Program modules
- Project Lead The Way training expands

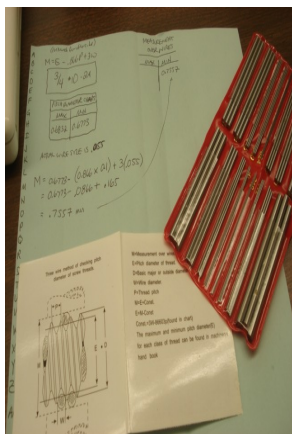
The TIME Center staff members were recognized by the Technology Education Association of Maryland (TEAM) at their annual awards dinner for their outstanding support of the TEAM organization and technology education teachers. Staff members - Ken Burch, Dennis Faber, Cliff Ishmael, and Judy Loar - have supported the organization by placing ads in the TEAM newsletter, staffing a booth and presenting at the annual TEAM conference, and providing professional development to technology education teachers.



From left: Dr. Gerald Day, Dennis Faber, Ken Burch, Judy Loar, and Ted McNett

Learning Projects

This year marks the second year the TIME Center has provided funds to teachers and other staff members. During the 2008-2009 school year, approximately \$35,000 in funds assisted teachers with reaching professional goals, updating curriculum and providing materials for special projects. For the 2009-2010 school year, funds totaled close to \$50,000. Recipients included teachers from Washington County, Carroll County, Baltimore County, Baltimore City, Harford County, Cecil County, Wicomic County, Charles County, St. Mary's County, and Towson University (a combined project with Baltimore City).



Keith Hale, Caroline County Schools learned to measure between the wires at MEBA.

Secondary and post secondary faculty, staff members, and counselors are eligible to apply for funding. And, proposals are accepted on a rolling basis until funds are depleted. Some examples of the Learning Projects from 2009 include: AWS certification, Efficient Office Building Design, MasterCam Update, and an internship. For more information, see the TIME Center website: <http://www.time-center.org/>.

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Harnessing the Power of Green Teams

“Going LEAN”: the act of eliminating waste to become as efficient as possible.

“Going Green”: the act of eliminating environmental waste, using LEAN concepts.

“Going Green” was the focus of the “Harnessing the Power of Green Teams” workshop on July 19, 2010. In this hands-on half-day workshop led by nationally known LEAN facilitator, Mike Rothmeier, participants were guided through an interactive process of understanding how to reduce environmental waste in organizations creating an environmentally sustainable enterprise. Participants also learned the value of going green to the bottom line and how to identify quick wins for their organization.

Commenting on the participants’ reaction, Cliff Ishmael, coordinator of the green program, stated, “The feedback we got was very positive... The most popular part of the program was representatives from companies who went green talking about what their companies have done and where they stand with the implementation of green.”

The workshop was jointly sponsored by the Maryland Technology Extension Service; Maryland World Class Consortia; Regional Manufacturing Institute of Maryland; and the TIME Center offered through the Community College of Baltimore County.

Trip to Cal U of PA

June 22, 2010—Shawn Lupoli, Assistant Professor for Computer Science at the Community College of Baltimore County (CCBC), traveled to California University of Pennsylvania with one goal in mind: find out what Cal U of PA does so effectively to support its robotics/robotic projects that can be brought back to Maryland.

Upon arriving at Cal U of PA, Mike Amherm, Assistant Director and Outreach Coordinator for the National Center for Robotics Engineering Technology Education (NCRETE), and John Callis, NCRETE consultant, gave Lupoli a tour of the campus and their current robotics program for teaching middle school students.

Why Cal U? Cal U is a research and training center with trainer modules that can be used for several robotics platforms. The trainer module works with teachers

to train them to teach students. To compare this trainer module with Project Lead the Way (PLTW), where education is used for the classroom, this robotics trainer module is used for competition, an extracurricular activity for a student. Cal U’s module is platform neutral—anything the school needs they can adapt to; there’s no exact structure. There are only three robotics platforms used in Maryland: FRC, Lego, and VEX.

To emphasize the importance of the trainer module, Lupoli states, “I hear this a lot. Sometimes the students know a lot more than the teachers.”

Lupoli’s next steps are to begin the initial stages of creating a program for teaching educators in Maryland using Cal U of PA’s trainer module for Maryland’s three robotic platforms.

“I hear this a lot. Sometimes the students know a lot more than the teachers.”



Project Lead the Way Obtains NSF Grant

Project Lead the Way (PLTW) originated with the goal of creating a system for educators to teach engineering classes to middle and high school students. For the past three years, CCBC, in partnership with UMBC, and with funding from the TIME Center, has been providing professional development for Maryland PLTW educators.

With the goal of replicating the Maryland PLTW professional development training program in other states, CCBC acquired a continuing National Science Foundation (NSF) grant effective July 1, 2010. Laura LeMire, the Principle Investigator of the grant and coordinator of the program, worked with PLTW headquarters to select regional representative locations with the greatest impact from each state. The locations selected were chosen for their ability to reach the greatest number of PLTW teachers to reach the greatest number of students.

TIME Center Partner Updates

Harford Community College:

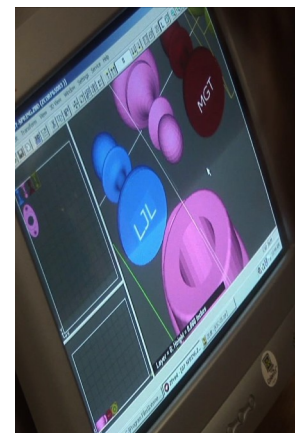
TnT program—Harford Community College just presented its 3rd annual Technology Needs Teens (TnT) on May 26, 2010. This was a one-day program for a select group of eighth grade students to learn from hands-on presentations. The goal of this program is to spark interest in Science, Technology, Engineering, and Mathematics (STEM), and to advance STEM education in the U.S.,

On August 6, 2010, the Maryland training team: Shawn Lupoli, Mark Lastova, Alan Zube, and LeMire, traveled to Rochester Institute of Technology (RIT) in New York for a video conference with the ATE Center of Sinclair Community College in Ohio. The training team went through lesson plans, assessments, challenges they encountered, and solutions to the challenges. With the PLTW grant reevaluated every year based on the results of the training and the funding ability, LeMire says they are looking to get input from everyone involved in order to continually improve the program.

This year the program involves New York and Ohio. Looking ahead to the next two years, the training team looks to include San Diego State University, CA; University of South Carolina; and Purdue University, IN in the program in 2011. In the following year, University of Texas at Tyler and Milwaukee School of Engineering, WI are to be included in 2012. This will bring the total number of participating states to 8 by 2012.

College of Southern Maryland (CSM):

Nuclear Energy Technology Program—CSM's Nuclear Energy Technology program begins this fall at the Prince Frederick Campus. The program gives the education and training required to understand, install, test and maintain components and control systems in power plants. The program emphasizes instrumentation and control systems relevant to the nuclear industry, though many principles will also apply to other types of energy-related systems.



PLTW students learn 3-D graphics

TIME Center Partners:

- *Chesapeake Community College*
- *College of Southern Maryland*
- *Community College of Baltimore County*
- *Harford Community College*
- *Wor-Wic Community College*

Upcoming Events

PLTW PD-Fishertechniks Level 2 Workshop

Location: CCBC Catonsville; Room H 100

Date/Time: 11/12/2010 8 AM - 4:30 PM

Description: Professional Development for PLTW Instructors Advanced level Fishertechniks

Contact: Laura LeMire 443-840-5904

Baltimore County VEX Robotics Tournament

Location: Woodlawn High School

Date: 12/4/2010

Description: Only for BCPS registered VEX teams. Free.

Contact: Mike McIntyre mmcintyre@bcps.org

Laurel, MD Kickoff—FIRST Robotics Competition

Location: Capitol College

Date/Time: 1/8/2011 9 AM - 12 PM

Description: 2011 Seasonal Kickoff for Maryland FIRST Robotics Competition teams. See the new game unveiled and pick up your teams Kit of Parts. All FIRST Robotics Competition regionals and tournaments are free and open to the public

Contact: wduncan@usfirst.org

PLTW PD Inventor Level 2 Workshop

Location: CCBC Catonsville

Date/Time: 2/25/2011 8 AM - 4:30 PM

Description: Professional Development for PLTW instructors in Advanced level Inventor

Contact: Laura LeMire 443-840-5409



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TIME Center Website: www.time-center.org