

NETWORK

A Publication of

TEAM

Technology Education Association of Maryland



TECHNOLOGY EDUCATION -- Education For The Future

WINTER, 1994

VOLUME 6 NUMBER 1

TEAM, Tech. Ed. Teachers and Students Participate in Engineering Week

In observance of National Engineers' Week, the 1994 Engineering Challenge competitions were held at the Baltimore Museum of Industry on February 26th and 27th from 10:00 a.m. to 5:00 p.m. The events offered Maryland students in grades one through twelve the opportunity to design a solution to an engineering problem and test their solutions against those of other student groups. Over 240 students participated in the Challenges, and more than 2000 spectators attended. Many of the secondary school entries were from Technology Education classes.

TEAM sponsored one of the eleven Engineering Challenge events; the "Lighter-Than-Air Craft" competition for students in grades nine through twelve. Teams of students performance tested their propeller-driven, helium-filled lighter-than-air craft that they built in Tech Ed classes. The other ten events ranged from building a bicycle helmet to protect an egg (for elementary students) to creating a cargo airplane that can fly while carrying a load (for high school students).

Several TEAM members had students participating in the Engineering Challenge events with great success. **David Buddenbohn**, Technology teacher from Leonardtown High School in St. Mary's County, had successful students in three events. In the "Line Tracker" robot event, David had a first place winner and a respectable performance in the "Lighter Than Air" dirigible event. His students also won 2nd place with their electric "Cargo Plane" entry. **Bruce Bowser's** students from High Point High School took 1st place in the "Cargo Plane" event back home to Prince George's County. Winning first place in the "Lighter Than Air" event were **Mark Hammett's** Technology students from Mt. Hebron High School in Howard County. **Quinn Patterson's**

students from Gwynn Park High School in Prince George's County won 2nd and 3rd place in this event. **Art Chenowith** from Glen Burnie High School in Anne Arundel County had a successful flight by his student entry in the electric powered "Cargo Aircraft" event. **Jim Roberts** also had a successful flight in the "Cargo Aircraft" event. His students from Kennedy-Krieger School in Baltimore were also outstanding performers in the middle school "Mag-Lev Express" event featuring magnetic levitation vehicles. In the high school "Mag-Lev" events, **Ed Downes** and **John McGoldrick** from Montgomery County's Winston Churchill High School had students win in both the "Station Design" and "Mag-Lev" performance. ■

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TEAM CALENDAR

Executive Board Meetings-- Howard County School of Technology, 6:30 p.m. on Tuesday, April 5th

Nominations for TEAM Recognition due April 1, 1994

ITEA Conference in Kansas City
March 20-24, 1994

TEAM Executive Board

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From Our President, Brigitte Valesey

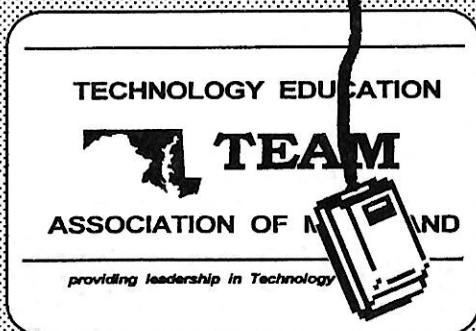
This will be an exciting and crucial year for technology education in Maryland. With the technology education graduation credit requirement in place, we have a strong commitment to promoting technological literacy and competency. Promoting technology Education and its contributions to the total educational program will be one important key to our success. TEAM will continue to provide resources to help teachers implement State goals and outcomes for technology education.

This year TEAM is sponsoring the Lighter Than Air Challenge at the Engineers' Week Competition to be held at the Baltimore Museum of Industry on February 26-27, 1994. TEAM will be working with the area engineering societies to help make the competition a successful and rewarding experience for students. Promoting student competitions and showcasing activities are a part of TEAM's efforts to help technology education teachers and students.

TEAM has recently completed a set of monographs titled, "Maryland Technology Education Graduation Outcomes-- Questions And Answers For Teachers". The monographs are designed to provide more background information which you can use to help explain technology education outcomes to parents, counselors, students and others. The monographs will be published by the International Technology Education Association and will be provided to TEAM members by April, 1994. Another resource, dealing with teaching/learning strategies, is presently being developed.

I am pleased to represent an organization committed to helping technology teachers provide quality instruction and programs for students in Maryland. I welcome your suggestions for TEAM involvement and look forward to working with you to make this a banner year for Technology Education. ■

TEAM Mouse Pad



TEAM mouse pads were distributed to members attending Conference '93. Additional mouse pads are now available for purchase for \$5.00 each. Checks may be sent to Tom Milans
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**ITEA Kansas
 City
 Conference
 March 21 - 24**

State Board Members and Assistant Superintendent Visit Technology Education Programs

By Bob Gray,
State Specialist For Technology Education

State Board of Education members Robert Embry, Jr. and Allison Cole joined Assistant Superintendent Katharine Oliver in visits to high school technology education in four Maryland counties. The purpose of the visits was to gain some first-hand knowledge of the innovative and challenging programs that have been developed to meet the graduation requirement in technology education.

On November 23rd, Dr. Lynn Gilli, Career and Technology Services Branch Chief, and Hazel Outing, Instructional Services Section Chief, accompanied the group to Westlake High School in Charles County and to Northern High School in Calvert County. At Westlake, Technology Teacher, Lee Hasting's students were busy designing wind turbines, energy absorbing bumpers for vehicles and solving a variety of technology-related problems. Charles County Supervisor of Technology Education, Ken Smith explained how his teachers are using computers for data acquisition in the assessment of student solutions to problems.

In Calvert County, Supervisor Kevin Michael lead the group through the newly modified technology laboratories at Northern and Calvert High Schools. These enticing labs feature modular instructional activities dealing with computer control, hydraulics, mechanics and electronics. In addition, there are areas for fabricating and testing prototypes of problem solutions. Teachers Terry Plater and Carl Fenwick have made significant changes in their programs to address the newly adopted learner outcomes for technology education. Their students have fun as they apply technology to the solution of practical problems.

Montgomery Blair High School in Montgomery County hosted the group on November 30th. Blair is piloting an innovative program in which ninth grade students are concurrently enrolled in Exploring Technological Systems, the introductory level high school Technology Education course, and in a physical science course. The technology teacher and the science teacher coordinate their lessons so that concepts presented in science can be applied in technology education. Coordinator, Robert Hopkins and Technology

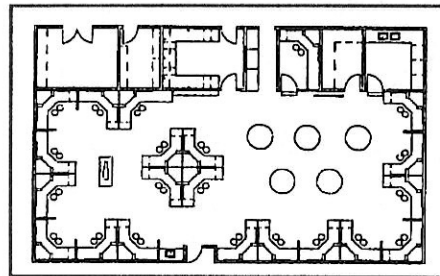
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Teacher, Ned Johnson provided our teachers with an excellent rationale for this unique program. Barry Burke, Coordinator of Industrial and Technology Education, and Jack Schoendorfer,

See VISITS on page 4

Visits from page 3

Director of Career and Technology Education for Montgomery County Public Schools described the County's plan for the implementation of four new high school technology education courses that will replace all the current offerings.



Katharine Oliver and Jack Schoendorfer discuss new Technology Education course at Montgomery Blair H. S.

The final stop on the tour was High Point High School in Prince George's County. The Assistant State Superintendent was joined by Richard Rothschild, an engineer at Digital Equipment Corporation and a member of Prince George's County's Technology Education Advisory Committee. Students in the Technology Foundations course under the direction of Technology Teacher, Bruce Bowser, were actively developing prototypes for a mass production activity that will benefit a local charity. The course includes instruction and activities that deal with the basics of how several modern technology systems work, the application of technology systems in solving problems, and the impacts of technology. High Point Principal, Ron Cunningham, praised the program and indicated that an expansion of offerings will be required. Technology Education Supervisor Harley Smith concurred and described Prince George's County's plans for implementing Advanced Technology Education courses.

Thanks to all of you who made these visits possible. It is very important for us to demonstrate the merits of our program. Technology Education teachers need to invite parents, counselors, administrators and board of education members to view their programs. It is the best way to gain the support needed for future growth in our field. ■

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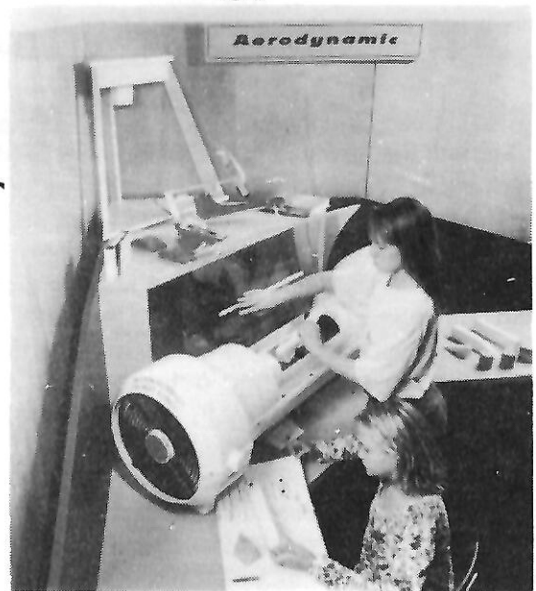
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New Special Interest Sections In ITEA

The recently revised bylaws of the International Technology Education Association (ITEA) provide the structure for special interest groups within the organization. These groups will be known as sections. The concept is much like a computer "user's group" where members meet to share ideas and exchange information. The following sections are now being organized: Communications Technology, Technology as General Education, and Design and Technology. Meetings will be held for interest participants during the 1994 ITEA Conference in Kansas City, on Sunday, March 20th from 7-9 p.m. in the Marriott. Contact the ITEA for more details. Reston, Virginia. 703-860-2100 ■

Regional Teacher Workshops On Advanced Technology Education

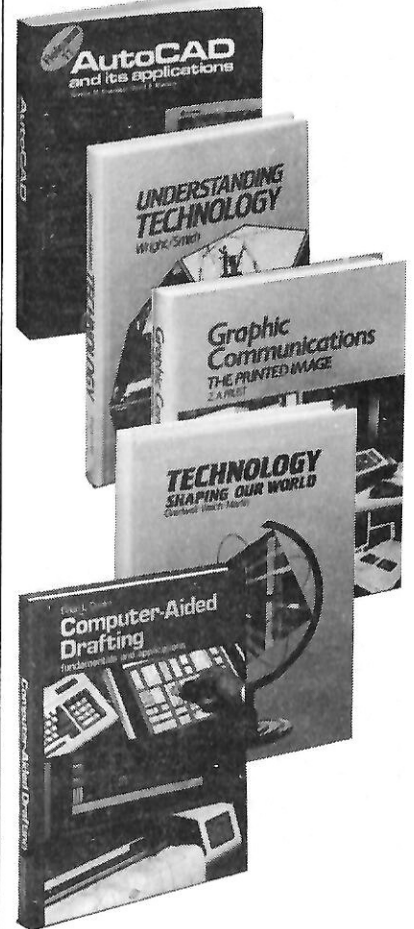
Four regional workshops are being planned to prepare a core group of teachers to be leaders in their school systems for the development and implementation of "Advanced Technology Education" courses.

Advanced Technology Education is one of three course options students, beginning with the class of '97, have to choose among in order to meet all of their new State graduation requirements. This is in addition to the Technology Education basic requirement for all students in this group. The three options for students are: 1) complete a college preparatory academic program including two years of foreign language, or 2) complete a college preparatory academic program including two years of Advanced Technology Education, or 3) complete a career preparatory program in a State-approved career and technology program.

Limited information on the four regional workshops is provided below. More information will be distributed within each region by the workshop coordinators. You may expect to receive the additional information at your school.

Region	Area Served	Contact Person	Dates
1	Allegany, Garrett Washington, Frederick, Carroll Counties	Tom Elliott 301-759-2047	May 18-20 (3 days)
2	Montgomery, Baltimore, Howard, Harford Counties, Baltimore City	Barry Burke 301-279-3566	Feb. 25 and June 16-17 (3 days)
3	Charles, Calvert, St. Mary's, Prince George's, Anne Arundel Counties	Ken Smith 301-932-6610	June 20-23 (4 days)
4	Eastern Shore Counties	Andy Buchanan 410-543-4216	June 20-22 (3 days)

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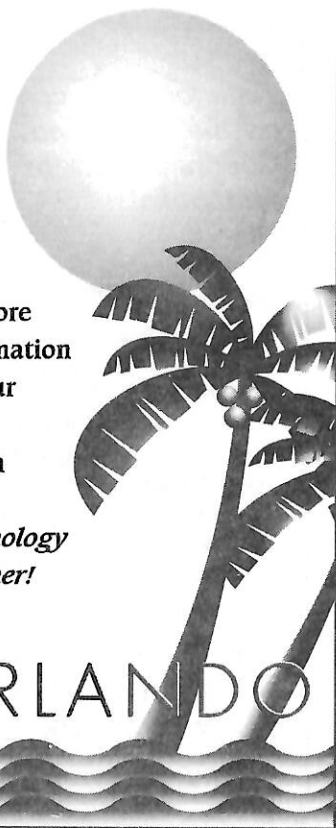
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ORLANDO



Katharine Oliver, Assistant State Superintendent, MSDE, Award of Distinction



Paul Dunford, Technology Education Supervisor, Frederick County, Award of Distinction

TEAM Recognizes Special Accomplishments and Contributions



Roland "Al" Phelps, Technology Education Teacher Retired, Baltimore County, Award of Distinction



Nancy Hausewald, Journalist, Baltimore Sun Newspapers, Award of Distinction



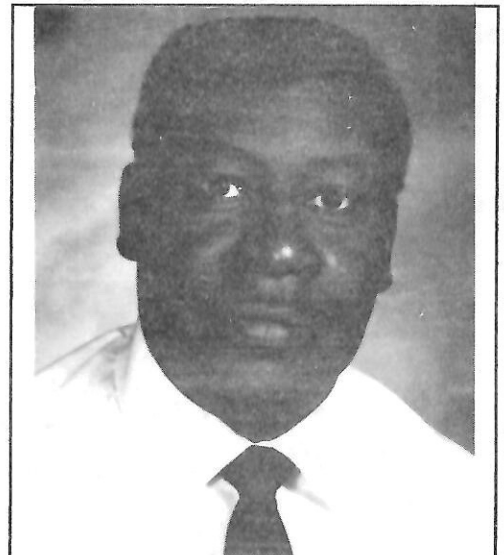
Barry Burke, Technology Education Supervisor,
Montgomery County,
Outstanding Supervisor Award



Harley Smith, Technology Education Supervisor,
Prince George's County, accepts Local District Program Excellence Award
from TEAM Past President, John Antonishak



Dennis Hearn, Martin Luther King, Jr. Middle
School, Prince George's County-- TEAM's Don
Maley Teacher Excellence Award Middle School



Quinn Patterson, Gwynn Park High School, Prince
George's County-- TEAM's Don Maley Teacher
Excellence Award High School



David Sheinhorn and George Wonneman, Benjamin Tasker
Middle School, Prince George's County-- TEAM's Program
Excellence Award Middle School



George E. "Ed" Dennis (center),
Winston Churchill High School, Montgomery County--
TEAM's Program Excellence Award High School

RE/TEAM-- Keeping Track of Retired TEAM Members

by Roland "Al" Phelps

In an effort to keep in communication with our retired colleagues, TEAM would like to mail to retired members each issue of the *NETWORK*. TEAM is also initiating a new column devoted to retirees. It is hoped that the information will be of interest to all *NETWORK* readers.

Since many of our retired members are not currently on our mailing list, we need your help. If you are a retiree or know someone who is, please contact our RE/TEAM editor so that we can follow up with keeping in touch with them. Please provide name, address and phone number to: Roland "Al" Phelps, 5706 Carroll Dale Drive, Eldersburg, MD 21784 (410-795-1987). ■

New Tech Prep Publication

A new publication, Tech Prep & Technology Education, A Positive Focus for Competitive Literacy, by Len Colelli, Ph.D., addresses how the academic and technological illiteracy of high school graduates threatens our democratic way of life and the economic well-being of our country. Tech Prep is designed to provide a focus for

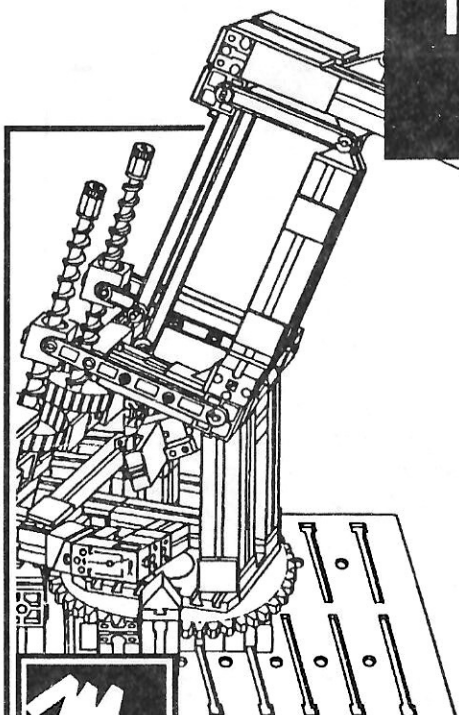
high school students without a specific career path. These students traditionally are the least prepared. This monograph defines tech prep, examines the need for this type of curriculum and shows how Technology Education plays a role in engineering-related tech prep curricula designed to develop competitive literacy for a world-class workforce. Contact ITEA to order (703-860-2100). ■

TEAM and the Society of Manufacturing Engineers (SME) Join to Provide Videos to TEAM Members

The Society of Manufacturing Engineers has produced a video tape containing three excellent programs that are great for technology education. The video collection is called, "Adventures in Manufacturing".

The first 100 TEAM members arriving at Conference '93 last Fall received their copy of the SME video tape. Other members who attended Conference '93 will receive their tape by mail in the coming weeks. TEAM members who were unable to attend Conference '93 will find an SME insert with this copy of the *NETWORK*. The insert includes a form to complete and mail to the SME, requesting a copy of the tape. ■

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UMES Technology Department Plans For "TECH EXPO 94"

by Dr. Leon Copeland


Faculty and students of the Department of Technology have invited industrial firms, businesses and area schools to participate in the 16th Annual Technology Exposition/Career Day program (Tech Expo 94) planned for April 13 and 14 in the Arts and Technology Center. This year's theme will be "Technology Systems-- Supporting Human Enterprises." The purpose of Tech Expo 94 is to encourage students to pursue careers in science, engineering and technology; and to showcase new technical developments.

The two-day format will feature a keynote address on Wednesday evening, April 13th, beginning at 7:30 p.m. The speaker will be W. Harley Smith, Supervisor of Technology Education for the Prince George's County Public Schools. His presentation topic will focus on core technologies and technology systems as subject content for technology education programs at the secondary and post secondary levels. The exhibition display planned for all day on Thursday, April 14th, will highlight new developments in science, engineering and technology related to construction, manufacturing, communications and transportation systems. Special seminar presentations are also planned to highlight math/science applications in technology education activities.

More than 30 exhibitors from local and area firms including the American Society of Mechanical Engineers, WESM Radio, University of Maryland Technology Extension, Construction Safety Institute, Storer Communications, NASA Wallops Island, Bayland Aviation, State Highway Administration, Maryland State Department of Education,


DELMARVA Power, General Motors and many others will participate. The program will provide an excellent opportunity for high school and college students to talk with professionals to learn about new technical developments and career opportunities in various fields.

The full program is free and open to the public. Please come to the beautiful campus of the University of Maryland Eastern Shore and profit from Tech Expo 94. For more information contact the UMES Technology Department at (410) 651-6468.




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 - College level student clubs TECA
 - Secondary school student clubs TSA

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TEAM Recognition Nomination Forms -- Return by April 1, 1994 to Dr. Charles Beatty, 2317 Falling Creek Road, Silver Spring, MD. 20904

TECHNOLOGY SUPERVISOR EXCELLENCE AWARD 94/95

Requirements:

- 1-Nominee is an active member of TEAM
- 2-Nominee is a current administrator/supervisor in the area of technology education.
- 3-Nominee has shown leadership in promoting technology education and be actively involved in developing technology education programs and staff development for teachers under their supervision.

Nominee: _____ LEA: _____
 Comments: _____

TECHNOLOGY EDUCATION AWARD OF DISTINCTION

Nominee: _____ Position _____
 Workplace: _____

LEA: _____
 Please summarize the achievements or contributions of the individual you are nominating. Please be as complete as possible.

Nominated By: _____ Title: _____
 Address: _____
 _____ Phone: _____

TECHNOLOGY TEACHER EXCELLENCE AWARD 94/95

Requirements:

- 1-A Member of both TEAM and ITEA.
- 2-Certified to teach industrial arts/technology education and have at least 3 years of successful teaching experience.
- 3-A full-time teacher of technology education (teach at least 4 periods)
- 4-A teacher whose superiors believe is worthy of being considered an outstanding State of Maryland educator.

Nominee: _____ School _____
 Courses Taught: _____ LEA _____
 Comments: Discuss activities, qualifications of the individual

TECHNOLOGY PROGRAM EXCELLENCE AWARD 94/95

Requirements:

- 1-two-thirds of teachers must be members of TEAM and ITEA
- 2-Certified to teach industrial arts/technology education.
- 3-Program must be representative of a successful approach to teaching technology education.

Nominee (School) _____ LEA _____
 Teachers: _____

Description of Program (Please indicate why you feel it is unique and why it is successful)

Upon receipt of your nomination(s) we will contact you at the address below for additional information. Recommendations (supervisor/principal) & course/program materials.

Nominated by: _____ Title _____
 Address: _____
 _____ Phone: _____

Workshop for Technology Educators at the University of Maryland Eastern Shore

**June 27th
- July 1st**

The University of Maryland Eastern Shore, Department of Technology will host a five-day professional development activity for 24 Maryland technology education teachers (one from each school system). Housing and meals are provided. The purpose of the workshop will be to enhance teachers' technical knowledge base and to develop skill in facilitating the problem-solving teaching/learning strategy. Utilizing state-of-the-art laboratories, highly qualified UMES instructors will offer our teachers instruction in some of the core technologies that underlay all technology systems. The core technologies to be addressed are structural technology, fluid technologies and electronics technology. Also, special experiences and instruction will be devoted to computer control and data acquisition systems. A week-long technology challenge will familiarize teachers with a long-term group problem-solving strategy that should be the foundation of advanced technology education courses.

Participants will earn two state workshop credits for successfully completing this activity and may earn two college credits through UMES. The registration fee of \$100 per person includes housing and meals.

For more information, contact Dr. Leon Copeland at UMES (410-546-4963). ■

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