

TEANJ
TIDBITS

- **A2169 Passed In Assembly!!!**
Thanks to hard work on the part of TEANJ members, A2169 passed in the New Jersey Assembly by a vote of 58 yes, 8 no, 9 abstentions! If you are wondering about the next steps of the process, the bill would have to move through the Senate, then be signed by the Governor. The TEANJ Executive Board is working hard to determine our next steps in terms of standards. Remember, the state has already proposed standard 8, technological literacy, so we may need to focus our attention there for now.
- **TEANJ 17th Annual Technology Conference and Expo** is being held on May 8&9, 2003 at the East Brunswick Hilton. Registration is beginning soon. Visit the TEANJ website at www.teanj.org and click on the "Conference" link for more details.
- **TEANJ Future Technology Educator Scholarship Fund** has become a reality. To make a tax-free contribution to this fund, see page 14 of this issue for more info.
- There is still a little time left to arrange to attend the **2003 ITEA Conference** being held in Nashville, Tennessee from March 13-15, 2003. The theme of this will be *Advancing Information and Knowledge through Innovation*. Information is available at the ITEA website: www.iteaonline.org.
- Applications for the **2003 INNOVATIVE TECHNOLOGY EDUCATOR AWARD** are due on January 31. This award is sponsored by the Martinson Family Foundation and recognizes extraordinary contributions and performance by technology educators with an unrestricted cash award of \$10,000 to each honoree. Check out the TEANJ website for application deadlines for this award. Also, see page 5 of this issue for details.

Technology Education Teachers and Students Making Headlines in the State

classroom projects getting attention in many communities

Technology Education programs have been making headlines in the state recently. News of the great work of the students in technology education programs come as no surprise to those who have been in the classroom with these students. TEANJ members have seen the capabilities and creativities of the young people in their classrooms. It is wonderful that many in the state are taking notice of what is going on in technology education classes. The premise of authentic, problem-based activities in the classroom in the form of TLA's have been a standard in the technology education class. Events in the world, in the state and in communities have given technology teachers opportunities to work with their students and to solve real problems. The success of technology students in affecting change in their world is being noticed. This recognition for

technology educators and their students for their positive efforts.

The following article appeared in the Sunday Star-Ledger on Nov. 10, 2002 and is reprinted with permission .

Students have designs on Morristown lot

Drafting class gives teens a chance to put skills to use on local project

BY BILL SWAYZE; Star-Ledger Staff

Justin Lacey used to draw up plans for homes that would never be built while clicking away in his computer-aided design class at Morristown High School. Now the 16-year-old junior is coming up with a blueprint for a new municipal public works department garage and an adjacent soccer field, skateboarding park and recycling center on nine acres of town-owned property off Lake Road.

The assignment is the result of a pilot program that teams up computer-aided design students with the town's engineering department. What started out as an idea mentioned to a teacher at a back-to-school night last year has become a bonus for both the students, who are thrilled to be working on actual projects, and town engineers, who now have a few eager assistants who work for free.

"This project is not just something between me and my teacher, where I hand a drawing in, it gets graded and



achievement under the direction of technology education teachers is a great source of pride for TEANJ membership.

In this issue of Interface, as with every issue, TEANJ salutes the

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PRESIDENT'S MESSAGE

Dear Fellow Technology Educator and friends,

I would like to thank all of you who have taken the time to write, call or fax your assembly representative. Your effort and persistence has definitely paid off. The year 2002 comes to a close with the phenomenal news that the NJ General Assembly passed bill A2169. The bill has now been forwarded to the Senate Education Committee. At this time, with Standard 8 "Technological Literacy" proposed, the executive board will focus on getting that adopted next.

Many of you are concerned about licensure and who will be certificated to teach the new proposed Standard 8. Members of the executive board are diligently working with legislators to get a bill proposed to create a license of technology education. It has been at least 17 years since the state colleges converted industrial arts programs to technology education programs. Student teachers that are in Technology Education programs, pass the Praxis Exam and student teaching earn a license that says "Industrial Arts" on it, despite the fact they never had an industrial arts course. Those of us who have a traditional Industrial Arts background and have converted to technology education should be able to pass the Praxis Exam easily. We are working to grandfather those in that position as well. To keep abreast of latest happenings be sure to check out the TEANJ website -www.teanj.org.

Many of you are now immersed in writing college recommendations for seniors. Some may still be undecided about their intended major. As technology educators, we recognize many of the traits that make a good technology education teacher. If you analyze your classes, you probably could identify at least one student who

would be a worthy candidate. Encourage them to look at technology education programs and tell them how rewarding it has been for you. For an updated list of colleges and universities offering technology education programs, visit the ITEA website at <http://www.iteawww.org/J4.html>. This page provides direct links and contains a wealth of information for junior and senior students interested in pursuing technology education degrees. If we all recruited just one student a year, it would help the profession by keeping a well-educated pool of teachers in our state. From personal experience, I can tell you that there is no greater reward than seeing one of your students go on to become a technology educator.

Don't forget to complete your application for the Innovative Technology Educator Award sponsored by the Martinson Family Foundation. This award recognizes extraordinary contributions and performance by educators with an unrestricted cash award of \$10,000 for each of the five awardees chosen. The applications must be postmarked **no later than January 31, 2003** to be considered. If you applied last year and want to update your application with new materials, the deadline applies to that also. A copy of the application and requirements can be printed out on the TEANJ website.

Much health and happiness to you and your families in the New Year!

Sincerely,

Sherry Roses
President, TEANJ



From the Desk of the Executive Director

To TEANJ Members: If you agree with what is written below, please share with your colleagues at a faculty meeting, by dropping it in their mailbox, and/or by discussing this issue with them.

An open letter to New Jersey teachers, school administrators and citizens:

Please rethink using the word "technology" when you are describing COMPUTERS. If you are talking about computers when you say "technology," please say "computers" instead since that's what you really mean!

People all over equate the word "technology" with computers, yet that is not the true nature of the term. In fact, it is extremely limiting! Please refer to the below definition found at britannica.com:

Technology: The application of scientific knowledge to the practical aims of human life or, as it is sometimes phrased, to the change and manipulation of the human environment.

This problem is trying in education, where people in many ways have largely overemphasized the role of computers in the classroom. Even those that are not using computers in the classroom may exaggerate their potential in their desire to garner them. Computers have a role in every area of the curriculum, yet the real problem is that too many educators are not comfortable with using computers themselves.

Schools and districts have hired or appointed specialists or "technology coordinators" as recognized experts in the use of computers in the classroom. I question if there will be a need for such jobs as we know them today just a few years from now. School administrators would do much better to train themselves and their staff in the use of

appropriate computer applications, and then simply hire qualified technicians to oversee maintenance issues.

I ask you also to rethink the use of the term "computer literacy." Is the computer not just a means to an end just as a pencil is? Was "fountain pen literacy" once as fashionable a term? Some professional associations have gone as far as to change their names to include "technology" in their title, yet they really mean information and computer related technology. I ask these organizations to reconsider the real necessity of doing such.

The fact is, all students need to understand "technology" as "the designed world" just as they understand "science" as "the natural world." Do they need to be able to use computers? YES! But, computer skills do not equal technological literacy and any educator that is promoting "technological literacy" as knowing how to use a computer is doing all students a dreadful injustice. Technology Education teachers have been in schools for decades teaching students to apply all knowledge, to solve problems, and think much like engineers and technologists do.

My purpose is not to downplay the importance of computers in education and society. In the field of Technology Education there is a large need to clarify terms for the sake of our students, and for the sake of our profession.

Please address questions/comments to:

Dave Janosz
Executive Director
Technology Educators Association of
New Jersey
P.O. Box 718
Fair Lawn, NJ 07410
janoszd@aol.com



TEANJ 2002-03 Calendar of Events

December

12 Executive Board Meeting

January

9 Executive Board Meeting

February

15 Articles and Advertising due for Interface Issue 3

March

6 Executive Board Meeting
13-15 ITEA Annual Conference
20 South Area Professional Development Workshop
27 North Area Professional Development Workshop

April

3 Central Area Professional Development Workshop
10 Executive Board Meeting

May

8-9 TEANJ Annual Conf & Expo
15 Articles and Advertising due for Interface Issue 4



**Please stay current with
TEANJ Action Alerts by
visiting www.teanj.org**

IN THIS ISSUE:

President's Message -----	pg. 2
From the Exec Director --	pg. 3
Vision For Society -----	pg. 4
TSA Update -----	pg. 6
Technology Around NJ ---	pg. 7
IMPACTS/by H. Roman --	pg. 8
Excellence Award Form -	pg. 9
Exec. Board Nomination	pg. 13
Scholarship Info -----	pg. 14
ITEA Info -----	pg. 15
Editor's note -----	pg. 15

THANKS TO OUR ADVERTISERS:
DeVRY; Goodheart Willcox;
Pitsco; Pitsco-Pathways;
Synergistic Systems

My Vision for our Society

AN OPINION by Mark Wallace

All those involved with New Jersey education - primarily teachers but also parents, NJEA and those administering - have been beleaguered by changes and initiatives for initiatives' sake, as they have never been beleaguered before. I have very great sympathy with the constant plea for stability, for consistency, and for support to enable teachers to do their jobs.

Why then another letter containing a clarion call for changes and initiatives?

I have concluded that if the current government does not take steps to intensify the addition of Technology Education in our schools, a generation of children - and a generation of adults

as teachers - will have been put at enormous disadvantage with consequences for the NJ that will be difficult to reverse.

What precisely would I like to see?

n All young people should experience a program of study (K-12) in Technology Education.

n Teachers in turn should be confident, competent and certified in the teaching of Technology Education.

And in the longer term:

I wish to see a society within ten years where technological literacy has permeated the entirety of education (as it will the rest of society) so that it is no longer a talking point but taken for granted - much like electricity has come to be.

These are substantial objectives. To achieve them will require single-minded vision, commitment and stamina from government as well as educational unions and associations. Benign neglect, one-off short-term initiatives and over-reliance on the market are likely to fail.

This brings me to how these objectives can best be achieved:

First, they will happen only if government firmly commits towards Technology Education as one of a very small number of strategic initiatives.

Second, we do not see any "quick fix" big idea or program that will achieve these objectives. It is emphatically not that simple. I envisage a coherently managed set of initiatives that if progressed in parallel will achieve the desired long-term objectives.

Sincerely,

Mark Wallace

3 Oil City Road -Sussex, NJ - 07461
973 -875-5927 - mwallace@nac.net



Innovative Technology Educator Award

A \$10,000 Cash Award for Technology Teachers

Sponsored by The Martinson Family Foundation

Overview and Information

The *Innovative Technology Educator Award* will honor five members of the Technology Educators Association of New Jersey for outstanding dedication and innovation in the field of Technology Education. This award, sponsored by the Martinson Family Foundation, recognizes extraordinary contributions and performance by educators with an unrestricted cash award of \$10,000 to each honoree.

Objectives

This program has been created to:

1. Recognize educators who have demonstrated outstanding contributions and performance in the field of Technology Education.
2. Advance professional activity in the field of Technology Education.

Benefits

Potential benefits of this program are:

1. Increased recognition for the area of Technology Education and the education profession.
2. Opportunities for recognition of individual educators associated with the field of Technology Education.
3. The creation of a compendium of activities and curricula collected through the application process.

Eligibility

To be eligible for consideration for the award, a technology educator must:

1. Demonstrate leadership and innovative practice in the area of Technology Education.
2. Have been a paid professional member of TEANJ for at least the two full school years prior to the date of application.
3. Be employed as a teacher or subject area supervisor, at the time of application, in a position related to Technology Education grades K-12.

Recipient Pledge

Upon acceptance of the award, the recipient agrees if requested by the sponsor to:

1. Serve on the award selection committee at least once within three years following the receipt of the award.
2. Deliver a presentation at the TEANJ Annual Conference regarding their described practice within two years following the receipt of the award.
3. Deliver a presentation at one professional conference other than the TEANJ Annual Conference within two years following the receipt of the award.
4. Represent the field of Technology Education through interviews and limited speaking engagements relative to the award for a period of one year.

Application

To be considered for the 2003 awards selection process, submit the following materials postmarked no later than **January 31, 2003** to: Innovative Technology Educator, c/o TEANJ, P.O. Box 718, Fair Lawn, NJ 07410:

1. Personal information form and question response.
2. A copy of your up-to-date resume and/or vitae.
3. A copy of your New Jersey teaching license.
4. One letter of recommendation from a district or school level administrator.
5. One classroom activity or instructional plan that you have created (subject supervisors may include one sample curriculum outline).

All applications received will be held for consideration for a period of three years. However, you may choose to update your application at any time. Include only the materials requested above and please do not bind materials.

Selection

A selection committee consisting of at least five individuals representative of the field of Technology Education in New Jersey reviews all applications and determines honorees. Criteria for selection is based upon question response, evidence of experience and leadership in the field of Technology Education, and quality of self-created materials. Finalists may be contacted to arrange for a site visit prior to the final selection of awardees. Finalists may also be asked to provide additional information and materials. All decisions made by the selection committee are final. The awards will be presented at the TEANJ Awards Banquet to be held in the spring of 2003.

Personal Information and Question Response

To apply for the *Innovative Technology Educator Award*, complete and send this form with other required materials postmarked no later than **January 31, 2003** to:

Innovative Technology Educator

c/o TEANJ

P.O. Box 718

Fair Lawn, NJ 07410

Personal Information

Please type or print clearly

Full Name _____

School _____

Current Position _____

Home Address _____

Home Phone _____

Work Address _____

Work Phone _____

Preferred Email _____

Social Security # _____

Question Response

Please respond to the following on one separate sheet of paper: Describe why *technological literacy* is important for all students to achieve. (250 words or less)

Signature & Release

By signing below I agree to all the specified terms and conditions pertaining to the Martinson Family Foundation Innovative Technology Educator Award. I have read the Martinson Family Foundation Innovative Technology Educator Award Overview and Information sheet and I agree to the terms of the "Recipient Pledge." I have personally created all materials that I am submitting with this application and knowingly release the rights of these materials to TEANJ for use in publications and for any and all other professional purposes. All information submitted in this application is true and accurate. If selected to receive this award, I understand that I am responsible to report any income based on this award to all appropriate federal and state authorities.

Signature _____

Date _____

2002-2003 TSA Calendar

Date: Monthly
Event: State Officers
Meeting
Place: College of NJ

Date: January 27, 2003
Event: Middle School
Conference
Place: Howell Middle
School North

Date: February 1, 2003
Event: Deadline for
Chapter Affiliation
Place: College of NJ

Date: March 27, 2003
Event: State Conference
Place: College of NJ

Date: June 25-29, 2003
Event: National TSA
Conference
Place: Orlando, Florida

Technology Student Association TSA UPDATE - - -

Middle School

Plan now to attend our next middle school conference which will be held at Howell on January 27, 2003. Contact the state TSA office to receive a complimentary Middle School Activities Guide and the Chapter Program Kit that includes everything you need to start a new TSA chapter.

Chapter Affiliation

State and National TSA dues will remain the same for 2002-2003. However, the affiliation process has been simplified. Schools that affiliated during the 2001-2002 school year will automatically receive the new affiliation package. *All original forms and state and national dues should be sent*

to the National TSA office. Forward a copy to the State TSA office for immediate confirmation and state affiliation. Contact Alison Goeke, TSA Assistant at 609/771-3244 or Goeke2@tcnj.edu if you have questions.



For more information on TSA, please visit our new home page at www.tcnj.edu/~tsa or national TSA at www.tsaweb.org
Or contact:
Henry Harms, State Advisor
The College of NJ
103 Armstrong Hall
Ewing, NJ 08628-0718
(W) 609/771-3339 or
(H) 609/882-3302
or EMAIL: harms@tcnj.edu

TECHNOLOGY HAPPENINGS AROUND THE STATE:

PROFESSIONAL DEVELOPMENT

□ The College of NJ Professional Development Workshop Schedule:

Department of Technological Studies

January 22, 2003-Desktop Publishing
Lori Lozinski, Graphic Design Artist, TIES Magazine, TCNJ, Ken Maskell, Editor, TIES Magazine, TCNJ, Ellen Farr, Adjunct Professor, Educational Technology, TCNJ

These professionals will share their experiences with dual purpose page design (print and the web), in-depth looks at importing graphics, typeface considerations, and the selection of desktop publishing software. You will see the advantages and disadvantages of desktop publishing program versus word processing. Discover how to present desktop publishing (and other applications) as contextual learning

February 12, 2003 - Children Designing & Engineering

Dr. Patricia Hutchinson, Director, Center for Design and Technology

Twelve K-5 contextual learning units that integrate technology, math and science have been produced in collaboration with NJ businesses through the Children Designing & Engineering project at our Center for Design and Technology Review the new instructional packages, including lesson plans, videos, and CDROMS, and sample some of the standards-coordinated activities.

March 5, 2003-Junior Student Design Challenge-*Especially for Students*

April 9, 2003-Exploring Design and Engineering (ED & E)

-Register Online at www.tcnj.edu/~teched. Just click on "Workshops" then go to "Registration."

□ NJ Tech Council Programs

TEANJ members can attend NJ Tech Council Programs at the student rate. Visit <http://www.njtc.org/> for more information.

COMPETITIONS

□ Creative Design Challenge: BOTS KETBALL

Sponsored by Panasonic Industrial Company in cooperation with the New Jersey Institute of Technology and the Liberty Science Center, the **Creative Design Challenge** is a competition for New Jersey High School students in grades 9-12. It offers scholarship money, prizes, fun and learning. Each year Panasonic announces a new and exciting challenge for the students to conquer. Registration takes place in the fall for the following year's challenge, which occurs in late March or early April. Visit <http://www.panasonic.com/industrial/creativdesign/> for more information.

□ New Jersey Institute of Technology MEDBOTIC COMPETITION

This competition will feature teams of high schools students who will each build a Lego Midstorm robotics project, which will be judged at the 29th Northeast Bioengineering Conference on March 22, 2003 at NJIT.

There will be three prizes. First prize will be \$500 for the winning team. Second prize will be \$300 for the team and third prize will be \$100 for the team. For more information, go to the webpage at <http://nebc2003.njit.edu/competition.html> or call Dr. S. Reisman at (973) 596-3527.



Look for information about the 2003 TEANJ Golf Outing in future issues of the INTERFACE.

Technology Education programs New Jersey Colleges:



KEAN UNIVERSITY

1000 Morris Avenue
Union, New Jersey 07083
(908) 527-2000



THE COLLEGE OF NEW JERSEY

2000 Pennington Rd.
Ewing, NJ, 08628-0718
(609) 771-1855



*17th Annual
Technology*

Conference & Expo

East Brunswick Hilton

May 8-9, 2003

Look for more details on the website.



TEANJ WANTS YOU!

WRITERS, PHOTOGRAPHERS, ARTISTS: The INTERFACE is looking for submissions of articles, photos and artwork. Feature something your district is doing in Technology Education. Write an article on any topic that would be of interest to our membership. Submit ideas or completed work to the editor, Joanne Reddan via email: reddanjo@cedargrove.k12.nj.us.

A NUMBER OF AVAILABLE TECHNOLOGY EDUCATION TEACHING POSITIONS ARE POSTED ON OUR WEBSITE at: <http://www.teanj.org/jobsboard/jobs/index.htm>

IMPACTS

Technology and Plants by Harry T. Roman PSE&G Company

Do you know where the word "digitalis" comes from? It's a heart medication, derived from the purple foxglove plant (*digitalis purpurea*), so common in our summer flower gardens. The ancients used to treat a weak heartbeat in older patients with a tea made from the dried leaves of the plant. Then, they called it foxglove tea. I think it's pretty neat how that all derives down through the centuries to us, isn't it?!

Taxol, the powerful anti-cancer drug that can be used against a wide range of cancers derives from the family of tough evergreen plants (*taxus brevifolia*) commonly known as yews. It's also contained within the common ornamental yew bush found around most homes, *taxus brevifolia*.

Today over 40% of the drugs in use derive from plants, and drug companies routinely send their scientists and field specialists into the rain forests and jungle around the world to learn firsthand from medicine men and shamans about plant drug cures used for centuries by local tribes. The plant world holds much promise.

My wife uses a clothes detergent and other lotions and medications derived from a common succulent (cactus) variety of plant. Thomas Edison, the world's greatest inventor also experimented enthusiastically with plants. So if plants are this important, why aren't technology education students studying them?

The first thing to do is of course try and identify the major uses of plants today, giving the students a feel for the broad range of plant derived applications. Here the students can research the Internet, books, and perhaps contact local sources of information like colleges, agricultural extension services, greenhouse growers, and farming organizations.

Don't forget your local pharmacist. These knowledgeable folks study the pharmacological history of plant use and have an incredible wealth of information about how plants have been used to cure common ailments. With the growing

interest in natural medicines for ailment prevention and cures, your local bookstores will likely have a section on plants and herbal medicines, as do stores that specialize in selling herbal products.

The key here is not only how the plants are used to cure an ailment, but what is the technology that is used to separate the curative substances within the plant from the stems, branches, leaves and bark of the plant. What we are talking about is processing technology; and here a discussion with pharmaceutical companies may be the best way to understand how it all works.

Growing and processing plant materials is a combination of biology, horticulture, chemical engineering, industrial engineering, and perhaps even mechanical engineering.

How will the plants be grown—within a greenhouse or in the wild /outdoors? How will the plants be harvested? Will they be pre-processed prior to delivery to the pharmaceutical company? Sooner or later, the raw plants must be processed via such methods as cutting, chopping, grinding, or mashing to extract the juices that contain the medicinal components. What are some of the traditional techniques for processing the plants? How do these techniques differ with different kinds of plants? Often the way a company processes a plant is unique information that can be used to obtain a patent or proprietary position within the industry.

All this suggests that perhaps your students might learn a great deal from visiting a pharmaceutical company, a processing facility, or perhaps even a local farm where foodstuffs or medicinal plants are grown. Your students could try growing some simple plants and observing the various steps to how the plants once grown are prepared for use or processing.

Thomas Edison's work with growing plants holds some interesting lessons. Have the students dig into his work. And also, during World War II, the Allied forces learned to make synthetic rubber since the Japanese had captured the islands where natural rubber was grown and processed. Surely there are lessons here about how plant technology has influenced our lifestyles.

Invite pharmacists, horticulturists, and chemical engineers into the classroom to discuss how plants are

converted into drugs, and other useful products. Many women's shampoos, lotions, creams, facial treatments, soaps, and skin emollients contain herbal compounds. Why not invite folks from the beauty care and cosmetics industries in to discuss how such compounds are gathered and made into products. The students can compare how plants have been used in the past versus the present. What plants were used say during ancient times; or during the American Revolution; or by their grandparents?

Speaking of the American Revolution,.... when the colonists originally settled this country, imagine all the new plants they must have found. How did they use this knowledge to help them survive in a wilderness? Thomas Jefferson, like Benjamin Franklin, was a superb inventor who developed many plant growing and processing techniques. Have your technology education students study the work of this incredibly talented man.

An excellent example of using plants is all around your classroom—paper. This ubiquitous product comes in a huge variety of shapes, sizes and colors, but it all comes from trees. This industry has over the years changed dramatically in the process it uses to change wood into paper. Older processes were inefficient and harmful to the environment, and were superseded by better ones. There is a rich history here for the students to explore.

What about George Washington Carver and the hundreds of products he invented from peanuts? This is truly a wonderful story about how necessity became the mother of invention. Take a look at all the ways peanuts can be used. It is incredible.

Every time you walk among plants or tend your garden, you are surrounded by an incredible array of potential technological applications. We tend not to notice the technology because it is removed from our everyday lives, but it is there and worth exploring. Give your students a real treat and challenge them with an understanding of the wonderful world of plants, and the technologies involved. Grow their interest!

Enjoy.



Award Nominations

Excellence Awards 2002-03

Each year the Technology Educators Association of New Jersey recognizes outstanding programs, teachers and administrators in the field of Technology Education. If you know someone who you feel is an outstanding teacher, runs an outstanding program, or is an outstanding supervisor/administrator please fill out the nomination form below. The winner in each category will be honored at our annual state conference next year and will also be our association's choice to receive international recognition at the International Technology Education Association award ceremony. Outstanding people in the field of Technology Education should be recognized and this is your chance to do that.

*Please fill in as much of the below information as possible.
The correct address with zip code is critical.*

Nominee:

Name _____ Position _____

School and Address _____

School Phone _____ Fax _____ Email _____

Nominated By:

Name _____ Position _____

School Phone _____ Home Phone _____ Email _____

Nomination For:

Award

- Program Excellence
- Teacher Excellence
- Supervisor/Administrator Excellence

Level

- Elementary
- Middle School
- High School

Please return this form by January 15, 2002 to:
Steve Megna, TEANJ Awards Chair
Glen Meadow School
P.O. Box 516 Sammis Road
Vernon, NJ 07462

Technology Education Teachers and Students Making News

continued from page 1

then it's forgotten," Lacey said. "This is not just for a grade. This going to be handed off as an actual design that could be used by the town. This is a great experience."

Jack Rizzo, who teaches the computer-aided design classes, agrees.

"They are getting real-life experiences and applying what they are learning in the classroom," Rizzo said. "Showing kids the real-world applications is the best thing you can do for them."

Depending on how well Town Hall works with Rizzo and his students, the high school could permanently offer a course that works hand in hand with town engineers next year, Rizzo said. "If this works out, it might be expanded to assist Morris Plains and Morris Township," he said.

David Janosz, executive director of the Technology Education Association of New Jersey, says Morristown High is one of two dozen or so high schools working with engineers and other professionals at town halls.

"It is not very common, and it is something we'd like to so more often -- kids working on real-world situations and getting a chance to apply math and science," Janosz said.

Councilman Tim Dougherty, whose 16-year-old son is in Rizzo's class, came up with the idea last year, saying it could ultimately save Town Hall and taxpayers some money. He talked to Rizzo about the idea last spring at the high school.

Soon, Jeff Hartke, the town engineer, and Ralph Panei, assistant municipal engineer, met with Rizzo and handed the teacher a few small projects, including one requiring a student to develop a street map with road conditions.

Lacey, who lives in Morris Township, has been drafting for three years and has the same program at home that most professional engineers use. The teen and

his computer-aided design classmates recently started on the Lake Road assignment.

The town handed the students a topographical map and a list of factors to consider -- the amount of wetlands, zoning requirements, the number of required parking spaces and offices at the new public works department building, the size of the soccer field and skateboard park, and other aspects of the possible development, Rizzo said.

The project at the Lake Road property is not certain, but if Morristown redevelops a large section of town on Speedwell Avenue north and east of Headquarters Plaza, the public works department located off Early Street and Speedwell Avenue would have to be relocated.

Local officials, who have been grappling with the need for a soccer field in town and recent requests by teenagers for a place to skateboard, say the property off Lake Road might have enough space to accommodate everyone's needs.

If the redevelopment moves forward, ideas on how to use the Lake Road site will come in handy. Lacey and his peers will have a couple of months to finish their work and create possible layouts of the facilities on the property.

The drawings will be handed off to Hartke's office and possibly to the engineering firm that will examine the site for the town and do much of the same work as the students, if that's necessary.

Hartke noted, "Who knows? It is a pretty ambitious project and the work might be used. We might say, 'Wow, this looks pretty good.' Our idea was initially to help the students apply what they are learning, but they may end up helping us."

continued on page 11

Technology Education Teachers and Students Making News

continued from page 10

In another part of the state, a classroom activity of TEANJ member Vince Farinelli received attention for a design project. Mr. Farinelli got the idea of designing monuments and memorials his class at Manalapan Englishtown Middle School from listening to a special call-in program on NPR radio that encouraged people to share their ideas for a monument or memorial for the WTC site. He discussed the possibility of using the events of that horrific day as a design situation with our school administration and school counselors. and discovered that four students in the school that were directly affected, and that our community shared the grief of eleven families in all.

The following article appeared in the NEWSTRANSSCRIPT, a publication serving Colts Neck, Englishtown, Farmingdale, Freehold, Howell, Manalapan, Marlboro. It appears with permission of Greater Media Newspapers.

Students' design will come to life as 9/11 memorial Ground broken in Manalapan at township arboretum

By Dave Benjamin; Staff Writer

MANALAPAN — In a solemn ceremony held in the township arboretum, ground was broken for a 9/11 memorial that will honor 11 former residents.

The memorial will include the World Trade Center's twin towers constructed of blue granite and will stand 7 feet in height. A wall of polished black granite will join the towers and be engraved with the names of 10 residents who died at that location in New York: Daniel T. Afflitto, Louis F. Aversano Jr., Steven H. Berger, Dominick E. Calia, James V. DeBlase, Salvatore A. Fiumefreddo, Salvatore

Gitto, Christopher S. Gray, Thomas McCann and Joseph B. Plumitallo.

A pentagon-shaped fountain will be placed adjacent to the monument, and a granite boulder with a plaque will honor the people who died on United Airlines Flight 93 in Pennsylvania. The name of Patrick "Joe" Driscoll, a 35-year resident of the community who had moved out of Manalapan in early September, will be inscribed on the plaque.

The Rev. John P. Bambrick of St. Thomas More Catholic Church spoke at the groundbreaking ceremony.

"Margaret Mead once said, 'One of the oldest human needs is having someone to wonder where you are when you don't come home at night.'" he said. "On Sept. 11, 2001, all of Manalapan wondered why these 11 men did not come home that night. The days following would reveal the fullness of the darkness enveloping that day and the darkest of nights."

Bambrick said the community came together to lend support for each other and for the nation.

"The ground that is being broken, 14 months later, is a continuation of our support for patriotism, our love for one another and the need to answer the questions of our own wondering so that we may never forget and always remember the sacrifices these 11 men unknowingly made that beautiful September day. Their heroism made that day beautiful, and their memory makes this day beautiful.

"This endeavor started as all worthy things do, as a 'mitzvah,' a good deed," he said.

Shortly after 9/11, the reverend said, he received a phone call from Township Committeewoman Mary Cozzolino, asking him to ask the families what could be done.

"From a generous heart, from a mitzvah, came the idea of a public memorial, a place to go to remember, to

continued on page 12

Technology Education Teachers and Students Making News

continued from page 11

pray and to honor their loved ones," Bambrick said. "This is not a project, but a good deed from generous hearts."

A committee was established and students from the Manalapan Englishtown Middle School and from Manalapan High School began working on potential designs for a memorial.

"The Township Committee cleared the way for the site, and the families chose a design and added their own touches," Bambrick said. "The PBA created their own mitzvah by coming forward to raise the funds, and the township residents came forward to form a fund-raising committee. The people of Manalapan gave donations large and small."

Bambrick said the memorial is expected to be completed and dedicated on Sept. 11, 2003.

"We do not wonder where these 11 men are this night, for we know that their memory returns to our hearts and their names will rest here again in our community every night, forever," he said.

Design ideas for the memorial came from students, and the design of Katie Geant, Nicole Palmer, Brian Fintz and Jessica Taubman, four students in Vincent Farinella's eighth-grade technology education class, was chosen.

"School is not only test scores," Farinella said. "They (the students) were able to develop a real model that's going to be made in town. When does a kid get to do something in their lifetime and know that this will be erected and be here for lifetimes on end? I'm thrilled."

Approximately \$100,000, including a pledge from the Township Committee of \$25,000, has been collected for the memorial to date.

Speaking on behalf of the families, Angela Gitto said, "We felt a loss that day and continue to feel a loss as each day passes. Therefore, this memorial is not only for our families; it is for all of Manalapan and anyone who visits it.

Thanking the children for their creative ideas in designing the monument, Gitto said, "You made it very easy for us to decide what we needed to include in the memorial."

A GOOD IDEA:

Often we take the work that we do in our classroom for granted. We forget how truly remarkable student achievement can be in technology class activities.

Publicizing technology education activities at your school can be very beneficial for all. Remember to post information on your district newsletters or in local papers.

Of course, use the INTERFACE to showcase any ideas and activities you are proud of!!!

PLEASE TAKE A MOMENT TO COMPLETE THIS FORM AND RETURN ASAP



TEANJ Executive Board Nominations

TEANJ is in search of nominations for the below executive board positions for the 2003-04 school year. We need willing and able people to lead us through a crucial time for the profession, so please make a nomination for either or both positions!

President Elect (three year term) _____

Secretary (two year term) _____

Please return nominations by February 15, 2003 to:

TEANJ
Attn: Phil Paspalas
P.O. Box 718
Fair Lawn, NJ 07410

Advancing Excellence in Technological Literacy: Student Assessment, Professional Development, and Program Standards

Blacksburg, Virginia – November 26, 2002 – The International Technology Education Association's Technology for All Americans Project (ITEA-TfAAP) will release *Advancing Excellence in Technological Literacy: Student Assessment, Professional Development, and Program Standards* (AETL) at the 65th Annual ITEA Conference, March 13-15, 2003, in Nashville, TN. AETL is a companion document to *Standards for Technological Literacy: Content for the Study of Technology* (STL). STL identifies the knowledge and abilities students must develop in their progression toward technological literacy in Grades K-12.

AETL includes three sets of standards: student assessment, professional development, and program. Student assessment standards describe effective technological literacy assessment practices to be used by teachers. Professional development standards delineate criteria to be used by teacher educators, administrators, and supervisors in assuring effective and continuous in-service and pre-service education for teachers of technology. Program standards detail effective, comprehensive educational requirements to be used by teachers, administrators, and supervisors in promoting the development of technological literacy for all students. Together, AETL and STL identify a vision for developing a technologically literate citizenry.

For More Information:

For more information about ITEA's Technology for All Americans Project, contact William E. Dugger, Jr., DTE, Director, Technology for All Americans Project, International Technology Education Association, 1997 South Main Street, Suite 701, Blacksburg, VA 24060 (540) 953-0203/ fax: (540) 953-0014. E-mail: duggerw@itea-tfaap.org.



For the Good of the Profession!

We are proud to announce the creation of...

The TEANJ Future Technology Educator Scholarship, to be awarded for the first time at the 2003 TEANJ Conference & Expo.

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Our goal is to raise a \$10,000.00 endowment to guarantee a perpetual \$500.00 annual award. Here's how you can help:

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ITEA OPPORTUNITY FOR ELEMENTARY TEACHERS

The International Technology Education Association (ITEA) is seeking experienced elementary teachers in grades 5 or 6 to field test one unit of Invention, Innovation, and Inquiry (I3). This project is intended to develop 10 standards-based units that promote technological literacy in grades 5 and 6. The testing and development of I3 will require a commitment from everyone involved, but we hope to make it a fun and rewarding endeavor. The role of the field test teacher is essential to producing the best possible materials. We hope that you will join us in developing this innovative and exciting curriculum. For more information please follow this link:

<http://www.iteaawww.org/I3FieldTestApplication.htm>

or contact Dan Engstrom using the address below. The material is designed for 5th and 6th grade teachers and for an 8-10 day duration with 50 minute periods. This is an excellent opportunity to be on the cutting edge of standards-based curriculum design for elementary school.

The INTERFACE would like to thank all of our advertisers and extend wishes for a very happy and prosperous new year.



NEWS RELEASE

For Immediate Release

Museum Furthers the Vision of Technological Literacy

Contact:

William E. Dugger, Jr., DTE; Director Technology for All Americans Project
1997 South Main Street; Suite 701
Blacksburg, VA 24060

Blacksburg, Virginia – November 26, 2002

– The Museum of Science, Boston is developing a program of informal technological education related to the International Technology Education Association’s (ITEA) *Standards for Technological Literacy: Content for the Study of Technology* (STL). Using the definition of technological literacy identified in STL—the ability to use, manage, understand, and assess technology—as a foundation, museum associates are creating an atmosphere that encourages visitors to witness technology, interact with technology, and analyze issues

related to technology. The museum will develop and test standards-based thematic exhibit and program areas that integrate “what,” “how,” and “why” types of thinking.

While The Museum of Science, Boston model of informal technology learning is in its infancy, it offers promise in advancing technological literacy for all by supporting *Standards for Technological Literacy: Content for the Study of Technology*. STL identifies the content necessary for students to attain technological literacy. Technological literacy includes knowledge and abilities as well as the capacity to apply both knowledge and abilities to real-world situations. The Museum of Science, Boston recognizes the important role it can play in implementing technological literacy by providing people of all ages with technology-related learning opportunities through informal education.

For more information about The Museum of Science, Boston visit the museum’s Web Page at <http://www.mos.org/home.html>.

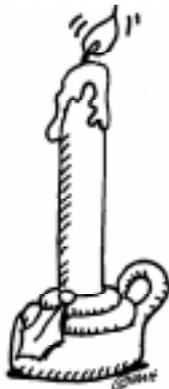
FROM THE EDITOR

Dear TEANJ Members:

The editor and staff of Interface extends best wishes for the new year to you and your families. We hope that 2003 will be a year that brings much happiness to all. As we entered the holiday season there was much uncertainty in the world we live in. But, each new year beginning seems to bring hopes that the future will be brighter for all of us in small way.

As we all take the time to reflect on the past year, let us remember the hard work and accomplishments of our association membership during 2002. Let us also renew hopes for the coming year. It seems we have many things still to accomplish. But, let us take a moment as 2003 begins, to celebrate our efforts

in the classroom and outside. Taking a moment to recognize achievements can replenish our spirits as we begin to undertake new ventures for the new year.



Wishing you peace in 2003,

Joanne Reddan
Interface Editor



THE INTERFACE IS ALWAYS LOOKING FOR ITEMS OF INTEREST TO PUBLISH.

PLEASE SUBMIT ANY TECHNOLOGY EDUCATION NEWS OR EVENTS OF INTEREST THAT ARE HAPPENING THROUGHOUT THE STATE TO THE INTERFACE EDITOR.

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*****Please note membership fees are included
in annual conference fees each year.***

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