

TEANJ
TIDBITS

- **The FIRST ANNUAL TEANJ GOLF OUTING** will be held on July 15, 2002 Gambler Ridge Golf Club, Cream Ridge, NJ (near Great Adventure) To benefit TEANJ Future Technology Educator Scholarship Fund. Visit www.teanj.org for more details.
- Plans are in the works for the **TEANJ 17th Annual Technology Conference and Expo** to be held in 2003. If you are interested in presenting, visit the TEANJ website and click on the "Conference" link.
- Don't forget the **2003 ITEA Conference** will be 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.iteawww.org.
- Congratulations to the newly installed **TEANJ 2002-2003 Executive Board**. The new board members were introduced at the reorganization ceremony held on May 2, 2002.
- **The Department of Labor and OSHA** are interested in educating high school students about job safety and workers rights. For more information, contact Bob Pitulejat 202-693-1819 or email: robert.pitulej@osha.gov
- **Assessing Technology Education Programs** was developed by TEANJ to assist teachers and administrators in identifying key features and practices in effective technology programs. Over 100 features of effective and non-effective technology education programs are identified in easy to read charts. Cost is \$10 for TEANJ members; \$12 for non-members. Send Money Order or Check to: TEANJ; James Novotny, Treasurer; c/o Livingston High School; 30 Robert Harp Dr.; Livingston, NJ 07039

16th Technology Conference & Expo highlight: Presentation of the 2002 ITE Award Winners

The Technology Educators Association of New Jersey held its 16th Annual Technology Conference and Expo on May 2 and 3 at the Glenpointe Marriott in Teaneck, NJ. The two day event featured roundtable discussions and vendor presentations followed by a dinner and awards ceremony on Thursday evening. The schedule for Friday included three sessions of workshops, vendor exhibits and a luncheon with a keynote address made by Howard Herbert.

The highlight of the Thursday evening Awards Ceremony was the presentation of the winners of the **Innovative Technology Educator Award** which is sponsored by the Martinson Family Foundation. This is the second year this award has been presented.

Five TEANJ colleagues were honored for their outstanding

dedication, extraordinary contributions and innovation in the field of Technology Education. The award provided each honoree with a \$10,000 unrestricted cash award.

The award winners were **Andrew Barcello**, a Technology Education teacher at Marlboro Middle School in Marlboro; **Steve Megna**, a Technology Education teacher at Glen Meadow School in Vernon; **Colleen Walsh-Barnes**, a Technology Education teacher at Livingston High School in Livingston; **James Novotny**, a teacher and Technology Education Department Supervisor in the Livingston district; and **Mark Wallace**, Supervisor of Technological Studies at High Point Regional High School in Wantage.

John Martinson of the Martinson Family Foundation gave an inspiring speech (*text of speech can be found on page 9*) and presented the awards.

Photos and article about TEANJ Excellence Award winners can be found on page 4.



From left to right: Phil Paspalas, President; Dave Janosz, Executive Director; Award Winners: Mark Wallace, Steve Megna, Colleen Walsh Barnes, James Novotny, Andy Barcello; and John Martinson, Martinson Family Foundation.

TEANJ

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PRESIDENT'S MESSAGE

PRESENTING A MESSAGE FROM THE OUTGOING PRESIDENT

Fellow Technology Educator,

Please take a moment to consider the future of our field. As we progress through the process in Trenton to gain inclusion of technology education in the standards for all children, we must turn our attention to those who hear the call to become a technology teacher.

New teacher recruitment is vital to insuring that technology education gains a strong foothold in New Jersey classrooms. It is only a matter of time before the study of technology is required for all. We must find it in ourselves to aid those who seek the challenge and excitement that we find every day in our careers. It is to this end that TEANJ has created the **Future Technology Educator Scholarship**. This \$500.00 scholarship will be awarded annually beginning next year to an outstanding senior from New Jersey who has been accepted into a technology education teacher prep program. Our plan is to raise the sum of \$10,000.00 to endow the scholarship indefinitely.

Here's how you can help. Elsewhere in this issue you will find the entry form for our first annual **TEANJ Scholarship Golf Outing**. Please try to make some time to play in this inaugural event as we work towards our \$10,000.00 goal. You don't need to be a member of TEANJ to play so come on out and have some fun for a good cause!

If you don't play golf, but would still like to make a tax-deductible donation, please send your check to:

TEANJ Scholarship Fund
C/O TEANJ
PO Box 718
Fair Lawn, NJ 07410-0718

Please make your checks payable to:
"TEANJ Scholarship Fund".

It has been a pleasure to serve you as your President this past year. I thank all of you for the continued support you have shown to TEANJ and to technology education.

"See you July 15th!"

Sincerely,

Phil Paspalas
President TEANJ 2001-2002
"Education for Innovation"



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From the Desk of the Executive Director

May 15, 2002 Testimony to New Jersey State Board of Education

Good afternoon and thank you for the opportunity to speak to you today about an issue that is very important to New Jersey students, educators, and its economy. This issue deals with Technology Education, and it closely relates to the Science standards that are moving toward adoption.

Last summer I had the chance to work on the standards revision and I'd like to explain to you what this experience was like. As I worked with the Cross Content Workplace Readiness committee, we sat in a room several times throughout the summer months in virtual isolation. There were absolutely no opportunities for our group to work directly with any other standards area, and I'm sure that none of the other groups worked together either. The result of this somewhat flawed process was a draft document, which is principally vertically articulated; meaning that each discipline is very well defined within itself to build on the knowledge of itself. No attention seems to have been paid to horizontal articulation by exploring connections between subject areas. Even the public feedback sessions that were held throughout the winter were held with each standards area in isolation from others.

This process lends itself to the proliferation of "turf wars," a push and pull within each of the subject areas. This push and pull that was perpetuated in 1996 continues to become more and more detrimental to the education profession and most importantly our consumers, the students of the state.

I am recommending today on behalf of the Technology Educators Association of New Jersey a simple renaming of the Science standards area to "Science and Technology." This recommendation is well established in current research and various national and state reports such

as Project 2061 and Technically Speaking. It is further substantiated by what neighboring states, such as New York, Pennsylvania, and Massachusetts have done in order to include Technology Education content in their standards. It is even further validated by the fact that draft standard 5.4 deals with the nature of technology and design and has been included to address the content of Technology Education as defined in the national Standards for Technological Literacy.

I already know that this recommendation may encounter resistance based primarily on the reasons I've described about the way this draft document has been developed. I think the most important thing to do in this case is to bring the stakeholders together to have real discussions that will lead to better decisions about what and how Technology Education should be included in the core curriculum. This conversation should take place before the current Science standards move forward, because as it did in 1996, there is potential that an area of study and the students of New Jersey may again be left out in the cold if the content of Technology Education is not somehow elevated.

I realize that much change has taken place within the state and Department of Education within the past few months. I would look forward to opening and continuing dialogue with the newest members of the department to work toward a solution to this trying problem.

Thank you for your attention and consideration.

Dave Janosz
Executive Director TEANJ

"The industrial history of man is not a materialistic or merely utilitarian affair. It is a matter of intelligence. Its record is the record of how man learned to think, to think to some effect, to transform the conditions of life so that life itself became a different thing." - John Dewey



TEANJ 2002-03 Tentative Calendar of Events

All dates below are tentative; final dates, times and locations will be available in the upcoming **Interface**.

July

15 Golf Outing

August

15 Articles and Advertising due for Interface Issue 1

29 Executive Board Meeting

September

26 Executive Board Meeting

October

8 *North Area Professional Development Workshop

17 Representative Council Meeting

24 *South Area Professional Development Workshop

November

7-8 NJEA Convention - Atlantic City - Workshops by TEANJ

13 Central Area Professional Development Workshop

15 Articles and Advertising due for Interface Issue 2

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

1-2 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



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>

ASSOCIATION EXCELLENCE RECEIVES RECOGNITION AT CONFERENCE

Many persons were honored at the awards ceremony and reorganization banquet. Recognition was given to members of the executive board, all the area and county reps and the university representatives.

The TEANJ Distinguished *Technology Educator Award* was given to **Libby Vinson**. Students receiving the *College & University Senior Excellence Award* were **Melissa Sulikowski, Kean University; Greg Paulick, Montclair State University** and **Tara Dec, The College of New Jersey**.

West Brook Middle School of Paramus received the award for *Middle School Program Excellence* and **South Brunswick High School of South Brunswick** was honored with the *award for High School Program Excellence*.

The *Supervisor/Administrator Excellence award* was received by **Vincent Chiaro, Clearview Regional High School of the Clearview Regional HS District**.

Teacher Excellence Award recipients were: Elementary School- Peggy O'Neal, Hurfville Elementary School, Washington Township; Middle School- Richard Morinelli, Margaret Mace School, North Wildwood; High School- Matthew Konowicz, South Brunswick High School, Monmouth Junction.

Outgoing Service Recognition was given to **Trish Zaremba** who served as the Central Area Representative.

After the presentation of these awards and the Innovative Technology Educator Awards, the installation of the new officers for the 2002-2003 Executive Board became official. This was followed by the State of the Association Address given by Dave Janosz; the Outgoing President Address by Phil Paspalas and the Incoming President Address given by Sherry Roses who also closed the ceremony.



From left to right: Phil Paspalas, Dave Janosz, Colleen Walsh-Barnes, Jim Novotny and John Martinson.



Sherry Roses and Keynote Speaker Howard Herbert.

PHOTO GALLERY FROM 2002 CONFERENCE



South Brunswick High School of South Brunswick was honored with the *award for High School Program Excellence*.



West Brook Middle School of Paramus received the award for *Middle School Program Excellence*.

Technology Student Association **TSA UPDATE - - -**

National TSA

Recently the National TSA website was redesigned to make it more appealing to students and more useful to advisors. Visit the website at www.tsaweb.org.

State TSA

Over 400 high school students attended the TSA State Conference held on April 8, 2002 at the College of NJ. Plan to affiliate for the 2002-2003 school year.

For More Information visit our home page at www.tcnj.edu/~tsa or National TSA at www.tsaweb.org or contact:

Henry Harms, State Advisor
The College of New Jersey
Tech. Studies/Armstrong Hall
Ewing, NJ 08628-0718
(w) 609/771-3339 or
(H) 609/936-1432
or EMAIL: harms@tcnj.edu



The NJ Technology Student Association is seeking new chapters. Please consider forming a new middle school or high school chapter and participate in TSA's excellent cadre of student activities. For more information on forming a chapter, please contact the new state director, Henry Harms, at harms@tcnj.edu

2001-2002 TSA Calendar

Date: Monthly
Event:: State Officers Meeting
Place: College of New Jersey

Date: June 24-28
Event: National TSA Conference
Place: Denver, Colorado

TECHNOLOGY HAPPENINGS AROUND THE STATE:

PROFESSIONAL DEVELOPMENT

■ Advanced Technology Institute ATI at Kean University

Learn the latest on web page development, animation, rapid prototyping, computing in technology, CAD/CAM and much more. Technology teachers may acquire three graduate credits in advanced technology and earn a stipend of five hundred dollars. The ATI Institute will be conducted from 9 am to 5 pm each day for two weeks on June 24 through July 3, 2002. Tuition costs are currently \$850. Call the Department of Technology for an application to the ATI Institute at 908-527-2926, or 527-2063.

COMPETITIONS

■ NATIONAL HIGH SCHOOL ROCKET CONTEST

In celebration of the centennial of powered flight in 2003, the Aerospace Industries Association (AIA) has teamed with the National Association of Rocketry (NAR) to sponsor the "Team America Rocketry Challenge," a rocket design and launch contest for U.S. high school students. The five winning student teams will share a total prize pool of approximately \$50,000 in savings bonds. Their school's science departments will share \$9,000 in cash.

The Challenge involves designing, building, and flying a multi-stage model rocket weighing less than 3.3 pounds at liftoff at a fly-off competition to be held in Northern Virginia in April, 2003.

Information about the Challenge is posted on the AIA website at: www.aia-aerospace.org/aianews/features/team_america/team_america.cfm

■ "Building for Tomorrow- Begins Today"

The New Jersey Center for Advanced Technological Education (NJCATE), one of 11 National Science Foundation

Advanced Technological Education centers across the country, is seeking 5-person teams of urban high school teachers and administrators to participate in a one-week institute. The institutes will be held according to the following schedule:

August 19 - 23: Middlesex County College, Edison, NJ

Each team will be comprised of four teachers representing one of the four disciplines of math, science, English, and technology, plus an administrator. Participants will learn how to organize, manage and ready student teams to compete in regional and national Science, Mathematics, Engineering, and Technology (SMET) competitions similar to the FIRST robotics competitions.

Institute participants will receive a \$250 stipend (\$50/day) and lodging and transportation costs will be reimbursed. Additionally, each team will receive a grant for their schools of up to \$800 to cover expenses associated with enrollment and participation in an SMET competition.

To find out how you and your school can begin "Building for Tomorrow" by taking part in this visionary program today, call, fax or email your inquiry to:

Robert Sicora, Center Director
NJCATE
2600 Woodbridge Ave.
Edison, NJ 08818
www.njcate.org
ph: 732.906.2632
fax: 732.906.4662
email: robert_sicora@middlesex.cc.nj.us



THE INTERFACE IS LOOKING FOR ITEMS OF INTEREST TO PUBLISH IN THIS SECTION.

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

Technology Education programs New Jersey Colleges:



KEAN UNIVERSITY

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



MONTCLAIR STATE UNIVERSITY

1 Normal Avenue
Upper Montclair, N.J. 07043
(973) 655-4000



THE COLLEGE OF NEW JERSEY

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

The Keynote Address was given at the TEANJ Conference and Expo luncheon on May 3 by Howard Herbert. His topic was "BRAIN DEVELOPMENT AND TECHNOLOGY EDUCATION: PERFECT TOGETHER." During this speech Mr. Herbert discussed how evolutionary psychology seeks answers to many questions that the technology educator addresses. This lively presentation was made especially enjoyable through the use of video clips and multimedia. Mr. Herbert is the Coordinator for the Center for Learning and Instruction at Ramapo College. He has published programs addressing the needs of the early childhood learner and the needs for children and adults with severe learning disabilities.

IMPACTS

TECHNOLOGY AND SPORTS

Harry T. Roman, PSE&G Co.

So there I was watching my favorite team blow a substantial lead in the second half of a football game and what do I start thinking of... technology. No, I cannot explain why I thought about technology, but my mind starting wondering about all the technology it takes to make football a reality.

The first thing I thought about were the players because they are the most visible aspect of the game. Think about the padding and protection they must wear in order not to sustain injury in this bone-jarring sport. Week after week they are pounded by men often quite larger than they and they bounce up to run again. Thanks to the miracle of high strength plastics which give excellent strength with low weight, their kidneys, shoulders, thighs and heads are amply protected. And we haven't even mentioned the variety of special braces that are worn to protect the neck, knees, and forearms from injury. Why men with broken bones can even play, thanks to the supporting strength of plastic.

Just a look at the helmet itself is instructive for the student of technology. Take a moment to trace the development of the helmet from a hand sewn leather skull cap to the impact resistant, form-fitted protective device it has been transformed into tells you instantly that some engineer with ergonomic training has been hard at work here. It has been much the same with the evolution of modern baseball catcher's face mask which incidentally was invented here in New Jersey.

Now what covers those protective devices? Well certainly a team uniform. But not just a cloth uniform. This material must be able to withstand enormous tearing forces as linemen and angry linebackers grab at the runner. In the past, I remember players with literally shredded shirts playing the game. Now you seldom see such tearing. Obviously technology has stepped in to solve the problem, and

while it has stopped the tearing, it has also made it possible for the materials to breath better and allow the player to remain cool even in warm, humid playing environments.

Today should a player become injured, his chances of recovery are significantly greater than in the past. Thanks to the discipline of sports medicine, and highly skilled sports surgeons, injured ligaments, torn muscles, and broken bones can be healed efficiently and effectively. And that has come to serve the entire population because many people who not play football are active in sports and suffer similar injuries on ski slopes, while playing tennis, or in falls. This is probably footballs' greatest gift to the common individual. While we are talking about sports medicine, we should touch on all the exercise equipment that is also used by the athletes who play the game and the care and treatment of their bodies after a grueling game. Much of this technology also finds its way into the gyms and health spas so many Americans frequent.

It's the same with the long distance runners. Look at what their sport has done for the everyday sneaker. Football is no different. It uses technology and passes some of it along to everybody – even if they don't happen to like the game. I think you will find that football footwear is quite highly evolved from the old grass stadiums and rubber cleats to the artificial turf so common now in modern stadiums. Think about the sneakers that basketball players wear. Some you can even pump air into to provide a cushion for jumping.

And let's not forget all the technology it takes to support the game itself. There are lights, electronic scoreboards and computers for the programmers and announcers to use to rapidly bring up statistics and graphics following key plays or record setting events. You have got to believe that the technology of big screen displays in the stadiums has influenced future tv design for the home.

Don't forget the design of the stadium itself. Many of these structures easily accommodate 50,000-70,000

people and allow them to move efficiently from their cars to their seats and back again. Think about the mechanical stress on the stadium when fans get excited and jump up and down, or maybe "do the wave". People need bathrooms too, and food and drink and all this must be supported by technology. Imagine the impact of fans on the plumbing of the facility at half-time? During Superbowl games city water and sewer and sewer departments know from experience that fans visiting their bathrooms at home can surge the system with peak demands. It is no different in the stadium. With 50,000 people there, you have the equivalent of a small city to deal with.

Well lighted, domed stadiums add a nice touch to all weather football. It's easy on both fans and players. Designing, maintaining and operating that dome is no small chore, but absolutely essential to the safe conduct of every single game.

Now finally, at the stadium, you are not the only one watching the game. It must be broadcast to waiting tv markets. And this is accomplished with all the precision of a crack military drill team. The home viewer misses very little of the game and is also treated to special pre game and post game analyses from network experts. If you ever go to a live game, take a look at all the tv and radio equipment that is needed to support the broadcasts. Pay attention to the personnel along the sidelines of the field with their cameras, portable microphones, and receiving dishes. There is also communication between the coaches on the field and the team staffers in the booths as both teams plan and re-plan strategies during the course of the game.

There you have it...technology and football; and you can find many other analogies for other sports as well. Let your students explore this area. Everyone knows about sports and there is nothing like familiarity to get your technology education points across. Make the technology lessons fun.

So how did my team do? Ah... the bums lost. But at least I got an interesting article out of it. I hope you enjoyed it.

Be Well.

Presentation of ITE Award by John Martinson: *text of speech given at May 2 Awards Ceremony*

The Martinson Family Foundation is pleased to participate for the second year in this unique awards program. During the past year, TEANJ has advanced in your influence. Hopefully, technology will be required courses in New Jersey. Your member's individual accomplishments in the classroom are especially impressive.

Last year, I told you about one of our sons who had been very positively influenced by a High School technology teacher. That son is completing a successful first year at Rutgers College of Engineering with a career goal to design athletic shoes using the most advanced technology. This year, I would like to tell you about the impact of teachers on another son who is a high school junior. He has been guided to the typical college prep curriculum. Self-motivated, he also took courses in engine design, auto mechanics and yes, architectural drawing. I asked him the other day what teachers had the greatest influence on him. He immediately named two. The first was his architectural design instructor. He is now signing up for his third year in place of study hall. Surprisingly, the second teacher that impacted him most was his Latin teacher. That must be his mother's genes.

Besides my family's positive experience with technology educators, I am motivated to solve the shortage of engineers in New Jersey. Over half of the technical talent in companies financed by Edison comes from outside NJ, mostly foreign. Yet, these jobs are among the best available in our state. So many New Jersey students are unprepared for technical careers. TEANJ members are on the front line of motivating and training our engineers of the future. In November, in this very hotel, the New Jersey Technology Council, which I co-founded, presented awards to the top ten technology companies. Half were led by CEOs who immigrated from overseas to New Jersey. Last night, I

participated in another awards program. My firm, the Edison Venture Fund, sponsored the East Coast Collegiate Entrepreneurial Awards. Eight college students were recognized at the Madison campus of Fairleigh Dickinson University. Several mentioned that they started their businesses while in high school and were supported by several teachers.

I enjoyed last year's inaugural ceremony for Innovative Technology Educators Awards. Margaret and I were particularly grateful for the letters we received from the winners. The outstanding teachers appreciated the recognition for their creativity and dedication. These teachers used the cash awards to make a difference in their lives such as a down payment on a first home, long overdue family vacation, more education for themselves and donation to a scholarship fund and many worthwhile purposes. We hope to hear from this year's winners. My wife Margaret participated on the Awards Selection Committee. She was impressed with the applications from so many deserving teachers. Only five could be selected this year. We look forward to coming back and sponsoring five more awards next year.



John Martinson, on right, presents award to ITE Winner James Novotny of Livingston District.



An ITEA Press Release

Implementation Assistance for *Standards for Technological Literacy* Available Online

Blacksburg, Virginia—March 22, 2002—The International Technology Education Association's Technology for All Americans Project (ITEA-TfAAP) has posted an online implementation site, <http://www.iteawww.org/TAA/Implementation.htm>, for *Standards for Technological Literacy: Content for the Study of Technology* (ITEA, 2000). The website includes information about the ITEA Standards Specialists, a glossary of terms, hot links to internet resources, and a developing source for curricula that includes a template for standards-based unit/lesson plans. The goal of the website is to assist states, regions, and localities in basing their laboratory-classrooms on nationally recognized standards of education, particularly *Standards for Technological Literacy*.

ITEA-TfAAP is committed to increasing technological literacy by helping the educational community implement *Standards for Technological Literacy* across the nation and throughout all grade levels. Educators, administrators, and policymakers are encouraged to submit comments and/or suggestions for making the implementation website more functional. Please direct all such correspondence to ITEA-TfAAP, 1997 South Main Street, Suite 701, Blacksburg, VA 24060, 540-953-0203, standards@itea-tfaap.org.

**To All TEANJ members
From the Interface Editor and Staff:**

**HAVE A GREAT
SUMMER
VACATION....**

**See you in
September!**



**RENEW FOR
2002-2003
SCHOOL
YEAR****



Membership Registration

Please Print

Date _____

Name *Dr.* _____
 Mr. Last _____
 Ms. First _____

Work _____
Name of School/Company

School District

County

Position & Level

- | | |
|---|---|
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| <input type="checkbox"/> <i>Supervisor</i> | <input type="checkbox"/> <i>Middle School</i> |
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| <input type="checkbox"/> <i>Other</i> | |

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Membership Type

- Regular Undergrad

(Membership fees are pro-rated through the year)
May-Oct: regular \$35, undergrad \$9
Nov-Dec : regular \$26.25, undergrad \$9
Jan-Feb: regular \$17.50, undergrad \$6
Mar-Apr: regular \$8.75, undergrad \$3

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

IF YOU DID NOT ATTEND THE 16th ANNUAL CONFERENCE ON MAY 2 & 3, OR IF YOU HAVE NOT RENEWED YOUR MEMBERSHIP FOR THE 2002-2003 SCHOOL YEAR, NOW IS THE TIME TO DO IT! VISIT www.teanj.org or return this form immediately.

Make all checks payable to TEANJ.
Detach and return with payment to:

**Technology Educators
Association of New Jersey
P.O. Box 718
Fair Lawn, NJ 07410-0718**