

◆ NATIONAL TECHNICAL NEWS ◆

Volume 6, Number 3

Summer 2000

The NTA Baltimore Chapter 3-T Mentor™ Program: A Blueprint Designed for the Success of the National Technical Association

By John H. Thompson, Director and NTA Historical Publicist

Dr. Mildred Fitzgerald-Johnson, former NTA Executive Director, had a vision that became a reality in 1990 when she developed the “3-T” Mentor™ Program (**T**echnologists (scientists) mentoring **T**eachers and **T**argeted students and their parents). This exciting project eventually was added to NTA’s existing National Programs.

The NTA Baltimore Chapter accepted the challenge of the President’s executive order to reform American schools and improve science and mathematics education. In 1991 the Chapter collaborated in a partnership with Morgan State University’s (MSU) School of Engineering – Science, Engineering, Mathematics Pre-College Preparation (SEMPREP)-Baltimore’s Comprehensive Regional Center for Minorities (CRCM) Program. Dr. Eugene M. DeLoatch (NTA member) is the Dean of MSU’s School of Engineering. The partnership enabled the Chapter to implement the 3-T Mentor Program in the Baltimore City Public Schools (BCPS).

The selected BCPS principals and mathematics/science teachers were very enthusiastic to participate in the 3-T Mentor Program because the teachers, in particular, had choices of being matched with Chapter members, comprised of architects, biologists, computer scientists, chemists, engineers, mathematicians, physicists and specialized technologists. The Baltimore chapter of the National Society of Black Engineers (NSBE) contributed greatly to the success of the 3-T Mentor Program. The program operates in a cluster of nine BCPS, namely, Gilmor, Matthew A. Henson, Sinclair Lane, and Gwynns Falls Elementary Schools; Garrison, Calverton, and

(Continued on page 2)



MEMBERSHIP NEWSLETTER
A Publication of The National Technical Association
Incorporated 1926

1999-2000 NTA BOARD OFFICERS

President
Katherine W. Coleman

Past President
Garry A. Harris

Treasurer
Frank Robinson Jr.

Secretary
Yolanda L. Hinton

Historical Publicist
John H. Thompson

Registered Agent
Rupert F. Graham, Jr.

Executive Directors
James L. Harris
Gilbert A. Haynes

Jackson and Tull Wins NASA Award

The Aerospace Engineering Division of Jackson and Tull, Inc., headquartered in Washington, DC (Mr. Knox Tull, President) was the recipient of NASA’s year 2000 George M. Low Award for Small Business Service. The George M. Low Award is NASA’s premier quality and productivity award for the aerospace industry.

Among Jackson and Tull’s major activities for NASA were more than 12 years of major engineering and fabrication support to the Hubble Space Telescope program, including the design and fabrication of the “new brain” of the Hubble Space Telescope which was installed in the December, 1999 Shuttle servicing mission.

The Tropical Rainfall Measuring Mission is one of the many other NASA and USAF satellite programs which Jackson and Tull has provided engineering support services.

(Continued on page 2)



Hubble Space Telescope Shuttle Refurbishment Mission

Also In This Issue:

NTA 2000 Conference	p. 3
Cleveland NTA CAP	p. 3
Earth & Space Videos	p. 5

(3-T Mentor, Continued from page 1)

Harlem Park Community Middle Schools; Frederick Douglass and Southern Senior High Schools. The program was developed as a transferable model enabling technologists (scientists) mentoring teachers, targeted students and their parents during the academic school year. The 3-T Mentor Program targets students (from grade 4-12) for nine years. BCPS students can be tracked because whether they are in the program or not, they are assigned school identification numbers. Therefore, it is easy for the participating principal (s) to retrieve test scores (particularly mathematics and science) from the BCPS computer data base system per request by the program's director – update data of the student's progression. The program's primary goal is to keep these targeted students in the mathematics and science pipelines by mentoring their classroom teachers - those who serve as role models, motivators, tutors, and mentors. The 3-T Mentor program offers excellent opportunities for teachers to:

- Update their delivery skills
- Interact with scientists, mathematicians, and engineers

In 1994, MSU School of Engineering's Baltimore Urban Systemic Initiative (BUSI) replaced the SEMPREP-CRCM Program. Both programs were funded by the National Science Foundation (NSF). However, from 1994 to early 1997, the Chapter completed a successful and productive partnership with MSU School of Engineering, which completed its commitment to NSF. Later in 1997 to the present, the chapter continued its successful 3-T Mentor program by collaborating in a partnership with MSU Computer Science Department's Network Resource Training Sites (NRTS) program. Dr. William Lupton is the Chairman of MSU's Computer Science Department and also President of the NTA Baltimore Chapter. NASA Goddard Space Flight Center and the Minority University-Space Interdisciplinary Network (MUSPIN) fund the NRTS program.

The NRTS program is an added component to the existing 3-T Mentor program that has enabled the Chapter to provide teacher training sessions – accessing the World Wide Web site on the Internet. The training is conducted for ten months as an Internet resource curriculum enrichment workshop for the participating 3-T Mentor program/ NRTS program schools. The teacher training sessions are conducted by a team comprised of Dr. William L. Lupton and other NTA Chapter members.

The NTA Baltimore Chapter formed teacher/mentor teams (approximately 35 each) involving approximately 1,050 students and their parents in mathematics, science and technology, that have greatly enhanced the delivery in the classrooms. The early and continuing successes of the 3-T Mentor program include the following: providing Internet connectivity; designing and distributing science and technology teaching modules; tracking students – assessing results of pre- and post-testing administered by 3-T Mentor program school principals; report cards – teachers/mentor evaluation; active interaction of mentors/teachers in the classroom; providing current principals/teachers/mentors directories for easy communication/references; ten work-

(Jackson and Tull, Continued from page 1)

Jackson and Tull has also been a major benefactor of NTA; in particular, for several years they donated use of one of their office spaces for the NTA National Office.

Jackson and Tull are also producers and distributors of an interactive, educational CD-ROM, "PCs in Space", free software showing the benefits of NASA technologies and discoveries.

Our congratulations to Jackson and Tull!

shops for mentors/teachers; mentors communicating with students and parents; mentors' worksite visitations; field trips to local/regional science facilities, bus trips to NTA National conferences for teachers/students, and a successful summer Mathematics, Science, and Computer Science Camp which is held by MSU's Computer Science Department for four weeks. An awards luncheon culminates the activities.

Additional outstanding activities for the success of the 3-T Mentor program include the following: Forums comprised of NTA Baltimore Chapter members and other science professionals, who combine as panelists for science/technology discussions (questions and answers) for 3-T Mentor program schools, are held periodically at designated school assemblies during the academic school year. A competitive Mathematics contest is held for elementary, middle, and high school students – winners are presented monetary and trophy awards for 1st, 2nd, and 3rd places, and certificates are awarded to all participants. The Mathematics contest is held at MSU. Finally, the NTA Baltimore Chapter's annual 3-T Mentor Program Recognition Scholarship Awards Banquet culminates the academic school year activities. Awards are presented in the following categories: college bound senior high school student - \$1,000 scholarship; middle school student - \$100 United States savings bond; "Teacher of the Year", "Mentor of the Year", community institution, and the Joseph S. Tyler, Jr. Award (professional).

Participants' commitment, perseverance, and dedication have and will continue to be the key(s) to the success of the NTA Baltimore Chapter's 3-T Mentor program.

NTA International Affairs

Ms. Hattie Carwell, NTA International Liaison Officer, is collecting data on international activities that NTA members and friends may be involved in, either as volunteers or in work assignments.

Please provide the following information as soon as possible, if this applies to you:

- Describe your international activities. Include what the project is, where, its duration, objectives, and expected impact.
- What is your role in the project, and how much time commitment does it take?
- What organization or individual sponsors the activity?

(Continued on page 3)

(Continued from page 2)

- How is it funded?
- Do you need assistance? (If yes, specify)
- If you are not currently involved in international activities and would like to be, please respond with your preferences of countries, type of project, and time you can devote.

Contact: hattie.carwell@Oak.doe.gov, or (510) 486-4296

NTA 2000 Conference The Black Engineer and the New Millennium

The Year 2000 Conference of the National Technical Association is scheduled for **October 18-21**. It will be held at the **Holiday Inn Hotel and Conference Center in Hampton, Virginia**. (See the Spring, 2000 issue of the *National Technical News* or the NTA Web site, www.ntaonline.org for more details.)

Deadlines for Abstract Submissions and Hotel Reservations are both **September 3, 2000**.

NTA invites you to submit abstracts and proposals for presentations or workshops you would like to make at the Conference. Abstracts must have a title (15 words or less) and be of 150 to 300 words in length, and must be accompanied by **full contact information** (not just e-mail address) for the author(s). Submit to **each** of the two editors below (**Electronic Submission Preferred**) no later than **September 3, 2000**.

Dr. George Carruthers
Code 7609, Naval Research Laboratory
Washington, DC 20375-5320
E-mail: george.carruthers@nrl.navy.mil

Dr. John Trimble
Dept. of Systems and Computer Science
Howard University
Washington, DC 20059
E-mail: trimble@scs.howard.edu

The Conference will be held at:

Holiday Inn, Hampton Hotel and Conference Center
1815 West Mercury Boulevard
Hampton, VA 23666-3229
Tel. (757) 838-0200 FAX (757) 838-4964
E-mail: holiday-resv@worldnet.att.net

Deadline for Conference Rate Reservations 3 September 2000

NTA Conference Rate \$89.00/night

Conference Registration Fees

All Presenters and Participants must Register (see Rate Table, below). Fees include admittance to Conference tech-

(Continued on page 4)

NTA Cleveland Chapter Career Awareness Programs N.A.S.A. PROJECT

The NTA Cleveland Chapter, in collaboration with the NASA Glenn Research Center, the Woodburn Center for Cultural Studies (WCCS) of Cincinnati, the Cuyahoga Community College (Tri-C), and Paragon TEC, Ltd. are sponsoring a career awareness program, **New Approach to Self Achievement (N.A.S.A.)**

The N.A.S.A. Project has three components: a Weekday Program, a Scholastic Challenge, and a Saturday program.

The N.A.S.A. Project is a six-week summer program for students attending Cleveland Public Schools who will be 7th, 8th, or 9th graders in the 2000-2001 academic year. The program is designed to expand students' understanding of possible career choices in science and engineering, as well as in technical occupations. The program offers an exciting learning experience to qualified students in an educational environment.

Program activities include classroom instruction, science projects that provide hands-on experiences in applying mathematical and science concepts, innovative proficiency test strategies, computer classes, and a variety of enrichment activities, such as career counseling, and field trips under the careful supervision of the N.A.S.A. Project staff.

The unique component of this program is the Saturday parent/student Afrocentric workshops. They are designed to help the parent to: (1) learn more about African/African-descent American contributions to science and engineering; (2) better understand the factors that influence their child's development; and (3) help the parent to discover ways to control these factors, in order to create an environment supportive of the child's development.

This year, administration of the program will be in the capable hands of Gail Dolman-Smith, President of Paragon TEC Ltd. Gail did a fine job as project manager for the 1999 program. NTA's participation this year includes conducting student-parent interviews, screening applications, assisting as mentors and role models, and providing lab assistants for the Saturday labs.

N.A.S.A. Project 2000 Schedule

Student Orientation	June 17	10:00-12 Noon CCC UTC
Classroom Instruction	June 19-July 27 (Mon.-Thurs.)	1:00-5:00 PM CCC UTC
Parent-Student Sessions	Saturdays Only	9:00 AM-1:00 PM
Culminating Activities Program	August 5	10:00 AM-1:00 PM NASA Glenn Research Ctr.

(Continued on page 4)

(NTA 2000 Conference, Continued from page 3)
 nical sessions and workshops, career development seminars, the career opportunity fair, as well as selected meal functions and receptions.

The NTA Directors would appreciate advance payment of registration fees, as this helps alleviate cash-flow problems!

Registration Fee Schedule

<u>Category</u>	<u>Plan</u>	<u>Cost</u>
Member	A	\$250
Non-Member	B	\$325
Auxiliary /Spouse	C	\$150
Professional, 1 Day	D	\$150
Student Member	E	\$150
Student Non-Member	F	\$160
High School Student	G	\$ 50

Payments can be made by check, MasterCard, Visa, American Express, or money order, payable to the

National Technical Association.

Mailing Address:

National Technical Association, Inc.
 PMB 221, Suite 120
 5810 Kingstowne Center Drive
 Alexandria, VA 22315-5711

Preliminary Conference Program Outline

Wednesday, October 18

Board of Directors Meeting

Thursday, October 19

Local High School Visitations (AM)
 Opening Plenary Session (Lunch)
 Professional Technical Paper Session I (PM)
 Internet Workshop: Digital Divide and Education (Evening)

Friday, October 20

Undergraduate Student Paper Presentation Session I
 Graduate Student Paper Presentation Session
 Professional Technical Paper Session II (AM)
 Membership Luncheon
 Professional Technical Paper Session III (PM)
 Health Workshop (Stress Induced Health Issues)
 Evening Corporate Panel

Saturday, October 21

Undergraduate Student Technical Paper Session II
 High School Student Paper Presentation Sessions
 Auxiliary-Sponsored Student Luncheon
 Awards Banquet

(N.A.S.A. Project, Continued from page 3)

All classes were held at Cuyahoga Community College, Metro Campus. All NTA volunteers were invited to attend the N.A.S.A. Project Picnic and the Culminating Activities Program. Our laboratory schedule for this year was as follows:

DATE	TOPIC
6/24	CHEMISTRY— Separation of Color Inks into Their Component Colors
7/08	PHYSICS— Static Electricity

- 7/15 BIOLOGY—Taste Receptors on the Human Tongue
- 7/22 ENGINEERING— Build a Fire Alarm
- 7/29 ENERGY— Solar Energy

Call for Student Space Flight Experiments

Are you a student or teacher with an idea for an experiment to fly on the Space Shuttle? The Space Experiment Module Team (Shuttle Small Payloads Project, NASA Goddard Space Flight Center) needs your ideas for a 2001 flight opportunity! SEM-09 is tentatively scheduled for shuttle mission STS-105 in June 2001. To be considered for SEM-09, an all-passive flight opportunity, proposals must be submitted by **September 1, 2000.**

Please consider and prepare a SEM experiment proposal as soon as possible. For further information, including the application process, check out the SEM web site at:

<http://www.wff.nasa.gov/~sspp/sem/sem.html>

The SEM is a self-contained assembly of structure, power, command, and data storage capabilities for microgravity experiments, and is based on NASA's standard Get Away Special (GAS) canister.

NTA Board of Directors Meeting

July 15, 2000

Holiday Inn, Conference Center
 Hampton, VA

The NTA 1999-2000 Board of Directors met at the Holiday Inn, Conference Center, Hampton, VA July 15, 2000. After prayer, roll call and approval of the minutes of the previous meeting, action items remaining from earlier meetings were discussed:

The Executive Directors have sent copies of the Bylaws and Operating Manual to all Chapter Presidents. Any chapter president who has not received one should contact the National Office immediately. In addition, Articles of Affiliation and Quarterly Financial Reports are overdue. These documents are required by the IRS for us to maintain our (501)(C)(3) status. Please submit them to the National Office NOW. Regional Directors were asked to contact their chapter presidents and assist in getting these documents submitted. We will have to take legal action against chapters who do not comply and continue to use the NTA name. Chapters are also asked to submit member dues at least quarterly with their financial reports.

We need members to identify potential advertisers for the Newsletter. We hope to underwrite the entire cost of producing and distributing the Newsletter. Please send information with contact names and phone numbers to George Caruthers, Newsletter Editor.

We will not be listed in the Combined Federal Campaign (CFC) materials this year as a participating agency, but we will still receive any donations specified for our previous number 1648. Gil will check rules for participating agencies

(Continued on page 6)

Video Series in Earth and Space Science

Beginning in 1994, with the support of a NASA Initiative to Develop Education in Astronomy and Space Science (IDEAS) grant, the Naval Research Laboratory (Space Science Division) and The Young Technocrats, Inc. began development of a series of videos in Earth and Space Science. Other supporters or participants include the DC Space Grant Consortium, the Howard University Department of Physics and Astronomy, Science, Mathematics, Aerospace, Research, and Technology (S.M.A.R.T.), Inc., and the National Technical Association.

The objective of this video curriculum is to introduce pre-college students (and their teachers) to the fields of Earth and Space Science, including both ground-based and space astronomy. It also serves to enhance the overall science, mathematics, and technology educations of precollege students.

The videos and associated hands-on activities are intended as supplements to existing courses in Earth & Space Science and physical science at the senior high school (grades 9-12) level; however, they can also be used, with teacher supplementation, in the middle school and junior high school (grades 6-8) level.

The videos are targeted primarily (but not exclusively) toward the African American student population. African Americans are the largest minority group considered to be underrepresented in science and engineering careers; however, they actually constitute a majority of both students and teachers in the DC Public Schools, and many other urban communities. We believe our video series is unique in that it **features African American students, as well as professionals, as on-camera participants.** This serves to better attract and hold the attention of the students, and the presenters serve as role models for the targeted student population. To further enhance the capacity of the video to attract and hold the interest of the students, some of the segments will be cast in the form of science fiction adventure stories, with student, as well as adult "actors" participating in simulated space missions.

Another area in which our videos differ from current NASA and commercially-produced videos is that important concepts are often covered more than once, in slightly different formats or contexts. That is, we do not avoid repetition, since we know from experience that students learn subject matter better if they are exposed to the same material more than once.

An accompanying transparency and hard-copy package is also available for each video. The transparencies can be used by the teachers in review sessions or other contexts in which re-showing of the videos is not practical. The hard copies, which can be reproduced for distribution to the students, should be distributed at the time of the video showings. These packages include all of the word and line-drawing charts shown in the videos.

The proposed outline of the complete video series in Earth

and Space Science consists of 16 chapters, varying in length from less than ½ hour to nearly 3 hours. The longer videos are divided into segments of about 30 minutes duration (so each segment can fit within a typical classroom schedule).

Chapters Completed to Date

- | | |
|--------------------------------------------------------|--------------------|
| I. <i>Introduction and Overview</i> | RT=25 min. |
| II. <i>The Size and Distance Scale of the Universe</i> | RT=37 min. |
| III. <i>Fundamental Principles</i> | RT= 2 hrs. 13 min. |
| IV. <i>Origins: How did it All Begin?</i> | RT= 1 hr. 15 min. |
| XV. <i>Introduction to Space Flight and Rockets</i> | RT= 2 hrs. 37 min. |

Note that the order of development of the videos in this series is **not necessarily in the order shown in the outline**; lower priority has been given to chapters dealing with topics where existing videos cover much of the material, and/or for which relatively few associated "hands-on" activities can be developed (e.g., planetary exploration).

Currently, the project is receiving no NASA funding, but we are continuing work on our own (and are continuing to seek new funding support). **We are currently seeking student volunteers to participate in currently "in-work" and future chapters of this video series.**

Distribution Policy

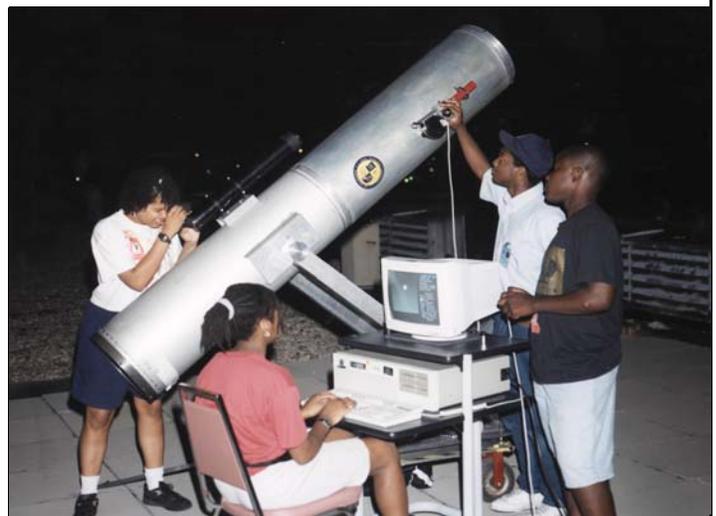
We have provided master copies of the videos produced to date, to the NASA Goddard Space Flight Center's Teacher Resource Center, which in turn will provide VHS videotape copies free of charge to teachers who bring blank videotape cassettes to the Center. VHS copies have also been provided to the Teacher Resource Center at the University of the District of Columbia.

For Further Information

(Including Detailed Outline of the Video Series)

Send e-mail request (for MSWord files) to:

Dr. George Carruthers
george.carruthers@nrl.navy.mil
 or call (202) 767-2764



In 1994, IDEAS-program students used a telescope and CCD camera to observe the collision of Comet Shoemaker-Levy 9 with Jupiter.

(Continued from page 4)

to see if we solicit contributions even though we are not officially part of the campaign.

We received reports from the Regional Directors, and from the Conference Planning Committee. Gil Haynes will contact those members who are retired, and inform them they can pay their conference registration in two installments. Conference plans are progressing.

The Publications and Editorial Review Committee (PERC) reported on the need to get other Black Technical Organizations involved in our Journal. We need to increase circulation to get advertiser support (compare with US Black Engineer, which claims circulation of 100,000). Since our target is professionals, we can have more than just recruitment ads. The committee also needs to meet with Web committee to discuss relative strengths of each, and to coordinate efforts better.

Guidelines for membership awards were revised and distributed. We plan to make these awards at the conference this year. Guidelines for Technical Achiever of the Year Awards are still to be revised. We may award one or two of those this year.

The membership committee was asked to recommend ways to grow our membership by the next Virtual Board Meeting.

The conference information has been updated and posted to the web. Please direct anyone wanting conference information to our web site, www.ntaonline.org.

 Yolanda L. Hinton, NTA National Secretary
y.l.hinton@larc.nasa.gov
 757-864-4950 Office
 757-864-4914 FAX

All sponsors were printed on the official tournament T-shirt, along with the logos of the corporate sponsors.

The tournament has been held at Briarfield Park in Hampton for the last three years. Plans under consideration for next year include moving to a larger venue with more available courts, and offering concessions for players and spectators.

Tournament winners were as follows:

Singles:

- Ladies 3.5 Latunia Pack
- Men's 3.5 Randy Scott
- Men's 4.0 Steve Whetstine
- Men's 4.5 Donnell Stewart

Doubles:

- Ladies 3.5 Brenda and Debbie Parker
- Men's 3.5 Ed Thornton and Alfred Brown
- Men's 4.0/4.5 Justin Reid and Skip Fox
- Mixed Open Phoebe and Muri Ajibade

**NTA Goddard Chapter President
 Featured in Yahoo! and Conferences**

Dr. Aprille Ericsson-Jackson, president of the NASA Goddard Space Flight Center NTA Chapter, is featured in an article "How America Uses the Net" in the September issue of Yahoo! Internet Life.

Dr. Ericsson-Jackson was also an invited speaker at the Youth Luncheon for the Tuskegee Airmen's Convention in San Antonio, TX which had an attendance of more than 1100 persons (including about 400 Black pilots).

She also was a speaker at the Tech 2000 Symposium in Miami, FL, at which some NTA Space Coast Chapter members were also present.

**NTA Hampton Roads Chapter
 Holds Tennis Tournament**

The Hampton Roads Chapter held its Third Annual Tennis Open on August 11-13. This event is the major fund raiser for the chapter's scholarship program. We currently award up to three scholarships each year to graduating high school seniors who are going on to college to study technical fields. Our goal is to endow at least one four-year renewable scholarship of \$1000.

About 65 players, including some from Richmond and Washington, D.C., participated in the tennis tournament this year, with singles and doubles competition for women at the 3.5 level (based on the NTRP 7-point rating system) and for men at 3.5, 4.0, and 4.5 levels. There was also a mixed doubles open category. For the first time this year, the tournament was part of the Virginia Peninsula Grand Prix, so players earned points that count towards eligibility for the masters tournaments to be held at the end of the season.

The tournament drew four corporate sponsors this year: Langley Federal Credit Union, SAIC, Zel Technologies, and REMSA, Inc. In addition, there were 19 individual sponsors.

**MU-SPIN / MURED Joint Conference
 to be Held in Atlanta, GA**

NASA announces that the first joint annual research and education conference between the Minority University-Space Interdisciplinary Network (MU-SPIN) and NASA's Minority University Research and Education Division (MURED), will be held **September 11-16, 2000** at Morris Brown College and the Atlanta Renaissance Hotel.

Conference Chairpersons are Mr. James Harrington, MU-SPIN Director, and Ms. Bettie White, MURED Director. Other program planners and participants include Dr. Dolores E. Cross, President, Morris Brown College, and Mr. George Reese, Associate Administrator for Equal Opportunity Programs, NASA Headquarters.

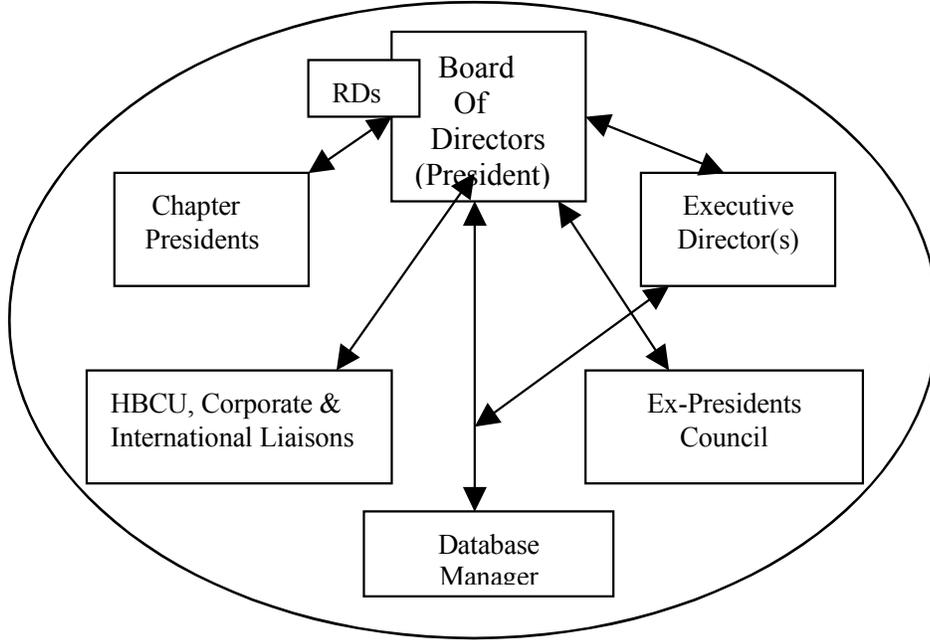
The program will include presentations by both students and professionals in Earth Science and Space Science areas.

For further information regarding the Conference, and registration, contact:

Ms. Robin Brown
Robin@muspin.gsfc.nasa.gov
Tel. (301) 286-3409
Fax (301) 286-1775

Presidential UPDATE...by Katherine W. Coleman, NTA President

Members, I am excited about the re-engineering of the management structure for The NTA. We have striven to incorporate the chapter presidents into the National "management team". This objective is two-fold: 1) improvement of communication between National and chapters and 2) opportunity for chapter and membership recognition. I believe that when members feel they have ownership in the organization high performance follows. Very briefly, our current organizational structure is as follows.



NTA MEMBERSHIP APPLICATION OR RENEWAL

Please See Mailing Label for Date of your Last Dues Payment, if not New or Current

Name _____

Title (Mr., Ms., Dr., etc.) First M.I. Last

Address (If Address Label on back of this page is correct, *check here*)

City or Town State Zip Code

Telephone Number(s) Fax Number E-Mail Address

Primary Occupation _____

(Occupational Goal if Student, Former Occupation if Retired)

Scientific/Technical Interests (in addition to above) _____

College/University Attending (if Student) _____

Current Status (Freshman, Sophomore, etc.) Major Field of Study

Payment Method *Check/M.O.* *Amex* *Master Card* *Visa*

Credit Card Number _____ *Expiration Date* ____/____

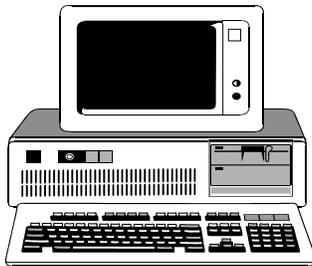
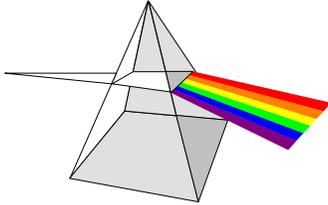
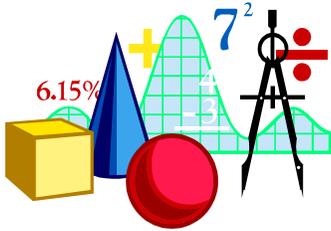
Signature _____

Payment *Professional \$75* *Student \$10* *Tax Deductible Contribution \$* _____

Today's Date _____

Please Mail with Payment (or credit card information) to NTA Return Address

On Back of This Page. (Keep a copy for your records)



PLEASE SEND US YOUR NEWS!

We are hoping to enhance the frequency and timeliness of the National Technical Association (NTA) Newsletter. Please send news items you feel would be of interest to professionals, students, and educators involved in science/technology fields and/or of interest to the NTA Membership (ELECTRONIC SUBMISSION PREFERRED).

Please include with your submission your name, telephone number, e-mail and snail mail address. Please also send an information copy of whatever you send us to your Chapter President and/or Regional Director.

In our attempt to be faster and cheaper, and eventually better, we format the Newsletter in Microsoft Publisher 98. Therefore, submissions in MS Word 95/97 or Powerpoint 95/97 are preferred (although Word Perfect and .TXT submissions can be converted). Any photographs or drawings should be black and white or color in .JPG or .BMP format.

Please submit to EACH of the following:

Dr. George Carruthers
george.carruthers@nrl.navy.mil
(202) 767-2764

Dr. Jesse Bemley
jbemley@american.edu
(703) 681-9142

Dr. John Trimble
trimble@scs.howard.edu
(202) 806-4822

Please Contact the NTA Office for ADVERTISING RATES in this Newsletter!

In This Issue...

NTA 3-T Mentor Program- NTA Cleveland CAP- NTA 2000 Conference

National Technical Association, Inc.
PMB 221, Suite 120
5810 Kingstowne Center Drive
Alexandria VA 22315-5711

Mailing
Address
Goes
Here