

◆ NATIONAL TECHNICAL NEWS ◆

Volume 10, Number 2

Spring 2004

**NTA 2004 Conference
September 14-18, 2004
Tuskegee University
Kellogg Conference Center
Tuskegee, AL**

The NTA 2004 Conference is just around the corner! Details were given in the Winter, 2004 issue of the *National Technical News*, and are also available on the NTA Web Site:

<http://www.ntaonline.org> .

Important Reminders:

Deadlines for the “early bird” registration fees, and for submission of abstracts of presentations to be given at the Conference (by professionals and students), are **May 31, 2004**.

Raytheon’s **Amanda Goodson** and HTS Enterprise’s **Garry A. Harris** are this year’s **Honorary Conference Chairpersons**.

NTA Conference Speakers include:
Wednesday Opening Plenary:

Mr. William Magwood, Director of the Office of Nuclear Energy, Science and Technology for the US Department of Energy.

Thursday Luncheon:

Welton Taylor, renowned scientist and educator (Invited)

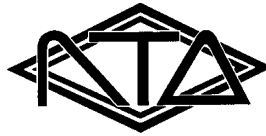
Friday Luncheon:

Dr. Karen Butler-Purry, Assistant Dean of Engineering & Assistant Director of the Power System Automation Laboratory at Texas A & M University

Friday Banquet:

Dr. N. Joyce Payne, Director of the Human Resources and Minority Programs for the National Association of State Universities and Land-Grant Colleges

More Conference details appear elsewhere in this issue of NTA News!



**MEMBERSHIP
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**A Little Background
Information About the
Founding of Tuskegee**

There is always more to a major event than we usually know, even when icons and information are constantly touted. From a brief article in *American Legacy*, Fall 2003 by Brenda Flanagan, I learned about Tuskegee’s Real Founder, the title of the article on page 35. These are a few important points from her article:

Lewis Adams, a native of Macon County, the offspring of a white father and a slave mother, born in 1842 and taken by his father’s to live in the plantation’s main house, where he studied mathematics, French, English, German & Spanish. He also learned trades; blacksmith, tinsmith, harness making and shoemaking. According to the article, after the Civil War, he married a local woman and moved into a house given to him by his father, where plied his trades.

He loved teaching those who attended his Sunday School classes at the local A. M.E. Zion Church which encompassed more than religious training.

Two men needing the black vote approached Mr. Lewis, who used his influence to swing votes in return for money for the education of the Blacks. Both men won their seats After winning, they

(Continued on page 2)

Also In This Issue:

| | |
|-------------------------------------|---------------|
| NTA Member Achievements | p. 2,3 |
| C. Mackie, F. Gregory Honors | p. 2 |
| Nsoroma Awards Program | p. 4 |
| NTA DC Chapter Math Contest | p. 5 |
| NTA 2004 Conference Info. | p. 6,7 |
| NTA Membership Application | p. 8 |

(Founding of Tuskegee, Continued from page 1)

introduced a bill to fund a college for blacks. In February of 1881, Rufus W. Cobb signed a law, a measure giving \$2,000 /year for a school for African American teachers, Tuskegee Normal & Industrial Institute. The College would be administrated by three commissioners-- two whites and Lewis Adams. Needing someone to run the Institute, they turned to the founder of Hampton Institute in Virginia who recommended Booker T. Washington, a virtual unknown. Lewis Adams helped to make it possible for Washington to get the position.

Lewis Adams taught classes at Tuskegee for many years, and died in 1905 at the age of 63. This man made a difference!!

Dr. Kathleen J. Prestwidge
NTA NorthEast Regional Director

News About an NTA Member

K.J. Prestwidge, Ph.D., NE Regional Director, writes poetry as well as book reviews and compiles bibliographies about African American scientists and Women in the sciences and health professions. She is also compiling a data base of African Americans in science by disciplines, which she finds overwhelming. Poems from three of her poetry books, *Wisdom Teeth*, *Bits and Pieces*, and *Hi, I'm Here Live!!* have been translated into Swedish, and recently published in southern Sweden. The Swedish book has her photograph on the cover, and is entitled, *Hi, I'm Here Live!!* She plans to visit there in September, after the NTA Annual Meeting.

White House Honors Tulane Professor and Motivational Speaker

Dr. Calvin Mackie, associate professor of mechanical engineering at Tulane University, and NTA 2003 Conference Charles Duke Distinguished Lecturer, was among nine individuals and eight institutions President Bush honored with the 2003 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.

Each year, the President recognizes people and institutions that have provided opportunities for women, minorities, and disabled persons in science, mathematics, and engineering at the elementary, secondary and university levels.

Dr. Mackie received his award, which includes a

\$10,000 grant for continued mentoring work, at a noon ceremony at the Eisenhower Executive Office Building in Washington, D.C. The National Science Foundation administers the awards program on behalf of the White House. The award was presented by John Marburger, the science advisor to the president.

Mackie, 36, began mentoring as a sophomore at Morehouse College. He presented his first paper at an NTA conference. Over the last decade, he has given more than 500 presentations to elementary, high school and college students on the importance of science, mathematics and engineering education. He also frequently addresses major corporations, encouraging employers to support their employees' efforts to further their science, math and engineering educations.

Mackie said that the award is a tribute to his own mentors, such as Dr. Carolyn Meyers of North Carolina Agricultural and Technical State University, the late Thomas Brocker of Morehouse College, and Delinda Brown Clark of Atlanta University.

University of New Orleans Professor Carsie A. Hall III nominated Mackie for the honor.

Astronaut Hall of Fame Honors NASA Deputy Administrator

NASA's Deputy Administrator Frederick D. Gregory is one of five explorers being inducted into the Astronaut Hall of Fame. Gregory and the other inductees were honored Saturday, May 1 during a public ceremony at NASA's Kennedy Space Center Visitor Complex, Fla.

As an astronaut, Gregory logged more than 455 hours in orbit on three missions from 1985 to 1991 as a Space Shuttle pilot and, twice, as Shuttle commander. He was the first African- American astronaut to command a Space Shuttle mission.

He has also served in a number of key NASA posts, including Associate Administrator for Safety and Mission Assurance, and Associate Administrator for Space Flight. He became NASA's Deputy Administrator in 2002.

He is a graduate of the U.S. Air Force Academy, where he earned a Bachelor of Science degree. He earned a master's degree from George Washington University, Washington DC. Gregory served 30 years in the U.S. Air Force and retired as a Colonel in 1993.

"I am so proud of Fred and grateful for all the years of service he's given to this agency," said NASA Administrator Sean O'Keefe. "I congratulate him and his wife Barbara on this tremendous honor."

"The opportunity to serve this country as an astronaut has always been honor enough for me,"

(Continued on page 3)

(Continued From Page 2)

Gregory said. "I appreciate the recognition from the Astronaut Hall of Fame, and I feel proud to be in the company of the other remarkable explorers being inducted this year."

Other inductees at this ceremony included:

Kathryn D. Sullivan, Ph.D., was NASA's first female spacewalker in 1984. Sullivan also helped launch the Hubble Space Telescope in 1990.

Richard O. Covey, Col., USAF (Ret.). He was pilot of the first Space Shuttle return to flight mission in 1988 following the Challenger accident. He commanded the 1993 Hubble Space Telescope repair mission. He is currently leading the task group making an independent assessment of NASA's Return to Flight Efforts following the Columbia disaster.

Norman E. Thagard, M.D., the first American to live on Russia's Mir space station. He spent 115 days working on Mir in 1995.

Francis R. Scobee, commander of the 1986 Challenger mission that ended in disaster 73 seconds after liftoff. Scobee will be represented Saturday by his widow, June.

Fred Gregory was NTA Auxiliary Luncheon speaker at the NTA 2002 Conference in Las Vegas, NV. Gregory's full biography is available on the Internet at:

http://www.nasa.gov/about/highlights/AN_Feature_Deputy.html

Biographical information on the Hall of Fame inductees is available on the Internet at: http://www.jsc.nasa.gov/Bios/astrobio_former.html

Garry Harris Named Chairman of American Nuclear Society, Metro Atlanta Section

NTA Past President Garry A. Harris has been named the new chairman of the Atlanta Section of the American Nuclear Society (ANS) for 2004-2005. A 25-year veteran of the nuclear industry, Garry has consulted to or performed engineering, licensing, quality control and assurance, operations, spent fuel transportation and storage, and plant maintenance activities at nearly 70% of nuclear plant sites in the US.

Atlanta Metro area members of the American Nuclear Society represent of over 25 nuclear-related companies and agencies, including the Institute for Nuclear Power Operations and the US Nuclear Regulatory Commission. With a metro-Atlanta area

membership of over two hundred strong, Garry is excited about building a team to lead the local section into being a one of the best in the nation by emphasizing strong leadership, active organization, and excellence in structured programs, community outreach, and personal and professional development for the local ANS membership. It is his personal goal that the Atlanta Metro section grows the number of professional members, and provides a premier example of the benefits of ANS membership.

In addition to being Chairman of the Atlanta Metro section, Garry sits on two ANS national committees, and on two councils for the American Society for Quality (ASQ) including the Environmental & Energy, and the Construction & Design Divisions. Garry is the founder and president of HTS Enterprise LLC, which provides engineering consulting services covering energy, engineering, environmental, construction, transportation, and quality assurance and control industries. In addition to his professional credentials and awards, he has been honored for working diligently through a number of charities, civic and social organizations to fight against illiteracy, create awareness of and aid the educational opportunities of minority youth.

Mr. Harris previously worked at both the Nuclear Regulatory Commission (NRC) and the Institute for Nuclear Power Operations (INPO) and, was Senior Reactor Operator (SRO) certified by the Nuclear Regulatory Commission and Westinghouse Electric Corporation

Mr. Harris holds a BS in Nuclear Engineering from the University of Virginia, a MS in Technology Management and MS in Quality Assurance and is pursuing efforts to obtain a doctorate in Industrial Engineering. In addition, he is a senior member of the American Society for Quality (ASQ) and holds numerous certifications in the field of quality.

2004 TECHNICAL ACHIEVER OF THE YEAR AWARDS

NOMINATIONS DEADLINE: JULY 1, 2004



Women of Color Recognized for Professional Achievement and Community Involvement

The Cleveland Chapter of the National Technical Association recognized five local women of color whose scientific, technological, and educational accomplishments warranted special honor - The Nsoroma Award.

The program was held Saturday, March 27, 2004 at the Cleveland State University Convocation Center. The 2004 NTA Nsoroma Awards Honorees were:

Queen Mother -- Dr. Melodie Stewart, Chief Technology Officer, City of Cleveland

Princess – Chelsea Smith, Engineer, NASA Glenn Research Center

Education - Mareyjoyce Green, Women's Program Director, Cleveland State University

Science – Christine Russell, Manager, The Lubrizol Corporation

Technology - Vivian Lee, Teacher, East Technical High School

Scholarship Recipient - Chioke Barkari, Euclid High School

This unique program, now in its third year, recognizes local women of color for their scientific and technological accomplishments, fortitude and community involvement.

The event was held from 10:00 am to 2:00 pm, at The Gerald H. Gordon Conference Pavilion at the CSU Convocation Center in Cleveland, Ohio.

The luncheon program included special remarks by the history-making Jennette Bradley, Ohio's first female Lieutenant Governor, and the delightfully talented Danita Harris, NewsChannel5 anchor, as mistress of ceremonies.

Sponsors included Battelle/NASA Garrett Morgan Commercialization Initiative, Cuyahoga Community College, NASA Glenn Research Center, and the Northeast Ohio Regional Sewer District.

A portion of the proceeds go to implement the Mallory Scholarship, which is presented annually to a local well-deserving graduating high school senior.

Since chartered in 1974, the NTA Cleveland Chapter has promoted career development of minority professionals in scientific and technical fields through networking. NTA-Cleveland members volunteer their time mentoring youth and in assisting programs that recruit students to technical fields, through its New Approach to Self Achievement (NASA) Project.



Seated: Terri Rodgers (NTA Cleveland Chapter President - NASA), Mareyjoyce Green (Education – Cleveland State University)

Standing: Danita Harris (MC-WEWS), Chelsea Smith (Princess-NASA), Chioke Barkari (Mallory Scholarship Recipient – Euclid High School), Dr. Melodie Mayberry-Stewart (Queen Mother – City of Cleveland), Vivian Lee (Technology – Cleveland Municipal School District), Christine Russell (Science - Lubrizol), Khary Parker (Chairperson - NASA)

NTA Washington, DC Chapter Holds 2004 Mathematics Contest

The Washington, DC Chapter of the NTA held its 2004 Mathematics Contest at the Patricia Roberts Harris Educational Center, in Washington, DC, on Saturday, May 1, 2004. As in previous years, students from not only DC, but from schools throughout the Maryland and Virginia metropolitan area, participated. This year, a total of 87 students (the largest number ever, to our knowledge) took the tests.

The Basic test was given to students of grade levels 6 through 9, and the Advanced test was given to all students of grade 10 and above (although students in grade 9 were allowed to take the Advanced test if they desired and felt capable to do so).

Prizes awarded were as follows:

1st Place – Advanced Test

Kevin Wingfield Banneker HS

2nd Place – Advanced Test

Aaron Strickland School Without Walls HS

3rd Place – Advanced Test

Wanda Salinas Washington-Lee HS

1st Place – Basic Test

Ben Lund Wakefield HS

2nd Place – Basic Test

Malik Spruell Hardy MS

3rd Place – Basic Test

Christopher Barrera Yorktown HS

Highest in Grade – 6

Janelle Alston N. H. Burroughs ES

Highest in Grade – 7

Eliana Eitches Longfellow MS

Highest in Grade – 8

Chanelle Craxton Hardy MS

Highest in Grade – 9

Hinton Combs Wakefield HS

Highest in Grade – 10

Wesley Bullock Ballou HS

Highest in Grade – 11

Sharnetta Tyler Eastern HS

Highest in Grade – 12

Devon Stokes Anacostia HS

Our Congratulations to All!

And, Thanks to our Financial/Material Contributors!

Teacher participants included Ms. Cynthia Broadus (P. R. Harris Educational Center), left, and Karen Wingfield and Dianne Carson (Ballou Senior High School), at right.



First Place-Advanced Test Award, \$500 Chevy Chase Bank Savings Bond (framed), is presented to Kevin Wingfield (11th Grade, Banneker High School) by NTA DC Chapter members Lester Clemons (left) and Arthur Southerland.



First Place-Basic Test Award, \$500 Chevy Chase Bank Savings Bond, is presented to Ben Lund (9th Grade, Wakefield High School) by Lester Clemons and Arthur Southerland.



Last Call For Participation
NTA 2004 Conference
September 14-18, 2004
Tuskegee University Kellogg Conference
Center
Tuskegee, AL

NTA invites you to participate, and to submit abstracts and proposals for presentations or workshops you would like to give at, the NTA 2004 Conference. Presentations dealing with all areas of science, mathematics, engineering, technology, and related education are appropriate. Deadlines for Presentation Abstract submissions and Workshop or Panel Discussion proposals are **May 31, 2004**. **Note:** Students and Academic Faculty should submit their abstracts **prior to the end of their spring semester** unless alternate arrangements are made.

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 **May 31, 2004**.

Dr. George Carruthers
 Code 7645, Naval Research Laboratory
 Washington, DC 20375-5320
 E-mail: george.carruthers@nrl.navy.mil

Dr. Moses Garuba
 Dept. of Systems and Computer Science
 Howard University
 Washington, DC 20059
 E-mail: apache@scs.howard.edu

As was the case for the 2003 Conference, the technical paper presentation sessions will be associated with the **Societies of the NTA**, which include Science, Engineering, Technology, Mathematics, Computer Science, Information Science, Education, and Architecture. **Each abstract submission must indicate to which Society the presentation is relevant** (and secondary area, if applicable).

Note, in contrast to previous conferences, undergraduate and graduate students will present in the same sessions as professionals, and must also indicate what Societies of the NTA are most relevant to their presentations.

All presentations should be prepared as PC-compatible **MS Word or PowerPoint files** and provided, at the Conference, on floppy disk, compact

disk (CD), or 100-MB Zip disk (as appropriate). The media to be used should be indicated at the time of abstract submission. Presentation time allowed is **15 minutes**.

New This Year: Poster Papers will also be accepted for presentation of late papers, if applicable oral presentation sessions are full. Presenter must bring poster board as well as items to be placed on it (which must also include full name, affiliation, and contact information of author(s)).

NOTE:

Lap-top computers and LCD projectors will be the only audiovisual equipment available at the Conference, unless other arrangements are made at least 2 weeks in advance of the Conference starting date.

All Presenters and Participants must register (see Rate Table, below). Fees include admittance to Conference technical sessions and workshops, career development seminars, and 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 Fees

Early (Through May 31, 2004)

Member (professional) \$ 250.00
 Non-member (professional) \$ 325.00
 Member (student) \$ 150.00
 Non-member (student) \$ 175.00
 Daily \$ 100.00

Late (As of June 1, 2004)

Member (professional) \$ 350.00
 Non-member (professional) \$ 425.00
 Member (student) \$ 150.00
 Non-member (student) \$ 175.00
 Daily \$ 200.00

Registration, and payment (by credit card) via the NTA Web Site (<http://www.ntaonline.org>) is the preferred method of registration and payment of fees. Payments can also be made by mail, by check, MasterCard, Visa, American Express, or money order, payable to the **National Technical Association**.

Mailing Address:

National Technical Association, Inc.
1761 East 30th Street, Room 100A
Cleveland, OH 44114
Tel.: (216) 298-4425

Tuskegee University Kellogg Conference Center is also the **hotel site** for the NTA Conference (room rates \$57.00 plus tax).

NTA 2004 Conference Air Travel Arrangements

The National Technical Association has selected Delta Airlines as the designated air carrier for our 76th Annual Conference. Registrants are encouraged to fly into the **Montgomery, AL** airport.

Ground transportation to Tuskegee will be available from the Montgomery airport for a nominal fee.

Contact **Burrows Travel Group** for reservations:
Tel. 1-800-850-2998, or www.burrowstravel.com.
Use Code **NTA2004**.

National Technical Association

1761 East 30th Street, Room 100A
Cleveland, OH 44114
Tel. (216) 298-4425

Operations Manager: Ms. Quelina M. Jordan
NTA Web Site: www.ntaonline.org

Tuskegee University

<http://www.tuskegee.edu>

Tuskegee Airmen Photo Gallery

<http://www.tuskegee.edu/Global/story.asp?S=1127291>

NTA 2004 CONFERENCE—TENTATIVE SCHEDULE

Tuesday, Sept. 14

9:00 AM NTA National Committee Meetings
11:00 AM NTA Board of Directors Meeting

Wednesday, Sept. 15

8:00 AM Registration Opens
9:00 AM Tuskegee Area School Visitation
2:00 PM Opening Plenary Session
4:00 PM Tuskegee University Tour & George Washington Carver Museum Visit

Thursday, Sept. 16

8:00 AM Registration Opens
8:30 AM Technical Career and Opportunity Fair Opens
Ribbon Cutting Ceremony
9:00 AM Technical Sessions, Panels, and Workshops
12:00 PM Membership Luncheon
Charles S. Duke Distinguished Lecture
2:00 PM Technical Sessions, Panels, and Workshops
7:00 PM President's Reception

Friday, Sept. 17

8:00 AM Registration Opens
9:00 AM Technical Career and Opportunity Fair Opens
9:00 AM Technical Sessions, Panels, and Workshops
12:00 PM Student and Auxiliary Luncheon
2:00 PM Technical Sessions, Panels, and Workshops
7:00 PM Technical Achiever of the Year Awards Banquet

Saturday, Sept. 18

9:00 AM Special Breakfast

Please note that this schedule is subject to change.



National Technical Association

"Nurturing scientists, engineers and educators.... since 1925"

MEMBERSHIP APPLICATION

Please complete application and mail with payment to
 ATTN: Membership, National Technical Association, 1761 East 30th Street, 100A, Cleveland, OH 44114.
 For more information, visit www.NTAonline.org or call (216) 298-4425.

| PERSONAL INFORMATION | | CIRCLE TYPE: NEW or RENEWAL | | | | | | | |
|--------------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|--------------------------|-------------|
| NAME | | | | | | | | | |
| ADDRESS | | | | | | | | | |
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| EMPLOYER/SCHOOL INFORMATION | | | | | | | | | |
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| MEMBERSHIP ELEMENTS | | | | | | | | | |
| CHAPTER | | | | | | | | | |
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| CORRESPONDENCE | <input type="checkbox"/> | Mail to home | <input type="checkbox"/> | Mail to employer/school | | | | | |
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| Financial Institution Name | | | Credit Card Number | | | | | | |
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| Checking Account Number | | | Billing Address | | | | | | |
| Check Number | | | City State Zip Code | | | | | | |
| Signature | | | Signature | | | | | | |
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