

NATIONAL TECHNICAL NEWS

VOLUME 16 ISSUE 1

WINTER ISSUE



Hattie Carwell, NTA President

Leave a little Room

No one can do everything, but everyone can do something. You are needed more than ever to help realize President Obama's 2020 Education goals. The goals are to improve the teaching of science; increase the motivation and excitement about science and sustain the support for making the US more competitive in technology. You have a significant role to play. You are vital factor to the success. I know, I know that your schedule is busy, and you have your own problems, but fit it in. Leave a little room in your life to help produce the next generation of scientists and engineers. Now is probably the most crucial time to invest in our children's future. You have the experience and know the rewards of a technical career. Remember what turned you on to science. Have you ever wondered what your life would be like if someone had not left a little room to encourage you and support your goals to succeed. Support the President and answer his call to strengthen America's competitive edge. The matter is urgent African Americans are falling further and further behind. Leave a little room in your life to support the NTA activities to motivate youth and guide the development of young technical professionals.

Hattie Carwell



**MEMBERSHIP
NEWSLETTER**
A Publication of The
National Technical
Association
Incorporated 1926

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Warren Washington receives the National Medical of Science from President Obama

The National Medal of Science is the highest honor bestowed by the U.S. government on scientists, engineers, and inventors. Washington is an internationally recognized expert on atmospheric science and climate research and a pioneer in using computer models, which employ fundamental laws of physics to predict future states of the atmosphere, to study Earth's climate. He has served as a science advisor to former presidents Carter, Reagan, George H. W. Bush, Clinton, and George W. Bush, published almost 200 papers in professional journals, and garnered dozens of national and international awards. He also served on the National Science Board for 12 years Washington became one of the first developers of groundbreaking atmospheric computer models in collaboration with his colleague, Akira Kasahara, when he came to NCAR in the early 1960s. With support from NSF and the Department of Energy, Washington subsequently worked to incorporate the oceans and sea ice into climate models. Such models were used extensively in the 2007 assessment by the Intergovernmental Panel on Climate Change, for which Washington and a number of scientists at NCAR and around the world shared the 2007 Nobel Peace Prized. He was the NCAR chair for 2002 to 2006.

International Year of Chemistry

The International Year of Chemistry 2011 (IYC 2011) is a worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. Under the unifying theme "*Chemistry—our life, there will be celebrations throughout the world.*" Below are a few examples of outstanding historical NTA chemists:

Moddie D. Taylor, William J. Knox, Jasper Jeffries worked on the Manhattan Engineering District Project ;

William Holly, 1947-1948 President of NTA held patents for a complete series of interior paints using calcium Titanium pigment to make glossy paints;

Lloyd Hall received over 100 food preservative patents; and was inducted in the National Inventor's Hall of Fame

Edward Harris worked at Wright Patterson Air Force Base and patented rocket fuels

Walter Lincoln Hawkins , awarded the **National Medal of Technology and inducted in the National Inventor's Hall of Fame** for developing a plastic to insulate and protect telephone wires

Top Scientist of the Year-Chemist



Dr. Victor McCrary

Victor McCrary, Science and Technology Business Area executive at the Johns Hopkins University Applied Physics Laboratory (APL) in Laurel, Md., received the Scientist of the Year award at the 2011 Black Engineer of the Year national conference in Washington, D.C., Feb. 17. Scientist of the Year and Black Engineer of the Year are the top awards presented at the annual conference, which recognizes the technical and scientific accomplishments of African-Americans who also show a strong commitment to diversity and mentoring. He is responsible for the management and technology planning of the Business Area's strategic investments and for engaging APL's Business Areas to

understand their long-term technology needs and subsequently developing specific plans to execute and transition research and development outputs back to the appropriate Business Areas. Prior to joining APL, Dr. McCrary was the Chief of the Convergent, quantum communications, and digital storage and standards development related to these R&D activities. In 2000, he received the Department of Commerce's Gold Medal from the Secretary of Commerce for the facilitation of global standards for electronic books.

Featured Member Achievement!!!

New Position— Joyce Ward

"Education Coordinator"

U.S. Patent and Trademark Office

The key focus of the position is collaboration with other government agencies with existing education offices and programs and collaboration with non-profits and professional organizations to work on joint efforts to promote STEM and weave in the interrelatedness of IP .

Congratulations!!!

Coming Events

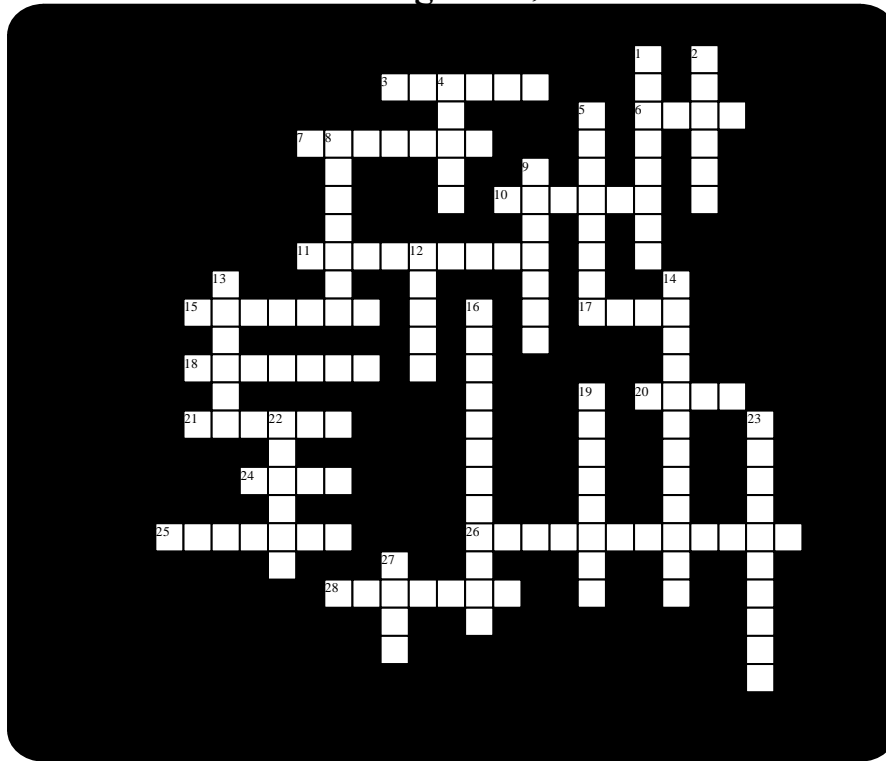
Beta Kappa Chi (BKX) The National Institute of Science (NIS) March 23-27, 2011, Fort Valley State University, Fort Valley, GA , 478-825-6852

NSBE Annual Conference, March 23-27, 2011, St. Louis, MO, 703-549-2207

NOBCCHE Annual Conference-April 19-22, 2011 Houston, TX at the Hilton Americas-Houston (1600 Lamar Street, Houston, TX), 713-739-8000

National BDPA Conference –August 3-6, 2011, Chicago, Illinois at the Chicago Hilton, 301-584-3135

Crossword Puzzle— NTA Engineers, Scientists and Inventors



Across:

- 3 - _____ Mc Kissack, former CEO of McKissack and McKissack Construction Firm was a past NTA President
- 6 - Architect Paul Williams designed the Lewis K. Downing Engineering Bldg. at Howard Univ. and actress Lucille _____ home
- 7 - Walter Hawkins co-invented the _____ coating sheet for telecommunications cables at Bell Labs
- 10 - Wright Patterson Rocket fuels chemist Edward _____
- 11 - _____Henderson assisted in the design and installation of steel cables for the Ambassador bridge and Winsor Tunnel between Detroit and Canada
- 15 - William H. Dammond developed a safety electrical cab railroad signaling system known as the _____ circuit
- 17 - 3rd African American Director of _____ Glenn Research Center at Lewis Field
- 18 - Manhattan Engineering District engineer Leroy _____
- 20 - Joseph Logan invented a small jet engine useful for the economy of this for helicopters and guided missiles
- 21 - Hubert Mac Thaxton conducted research on _____ scattering in the late 1930's and 1940's
- 24 - Lloyd Hall received over 100 patents for the preservation of this
- 25 - Dudley _____ was the second African American to receive a Ph.D. in mathematics
- 26 - Katherine Johnson calculated this for John Glenn and Alan Shepherd
- 28 - He was the First African American astronaut to travel in space

Down:

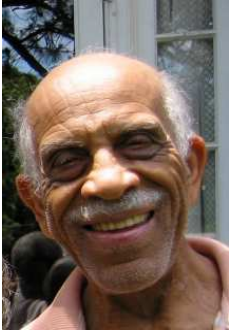
- 1 - Hillyard _____ Partnered with Paul Williams to give the Howard University campus a more modern sleet look
- 2 - The firm of John _____ designed and built the Addison Road Metro Station in Washington, DC
- 4 - Hampton Institute President Carl _____ conducted organic chemistry research with his wife Mary
- 5 - George Carruthers was the first to identify this molecule in space
- 8 - Jesse Duke worked on the construction of the New York _____ Tunnel
- 9 - 2nd NTA President James _____ invented corrosive resistant alloys
- 12 - NTA President, James C. _____ that worked in the Defense Dept to Integrate the US armed forces and taught electrical engineering at Howard University
- 13 - Physicist Eloise _____ conducted radio wave research at the National Bureau of Standards in the 1940's
- 14 - Frederick Messiah helped to develop yield strength _____ for reinforced concrete
- 16 - Howard Mackey established this Department at Howard University
- 19 - Albert Cassell designed and built this Library at Howard University
- 22 - Valerie _____ received a patent for the concept for an illusion transmitter
- 23 - Archibald Alexander designed the Tidal Basin Bridge in DC and this Freeway
- 27 - Co-founder of NTA, Charles _____ graduated from Harvard University in civil engineering in 1904

Possible Answers:

Bluford, Duke, Parsons, Robinson, Sulton, Taylor, architecture, Ball, calculations, Calvin, Cornelius, Dammond, Evans, Florant, food, Founders, fuel, Harris, hydrogen, Hill, Lincoln, NASA, plastic, proton, Thomas, trajectories, Whitehurst, Woodard

In Memoriam

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Jesse Duke

and brother Charles Summer, Jr. on December 15, 1915.

Jesse was educated in Chicago public schools and Hampton Institute and also graduated from Howard University with a BS in engineering. Later on he earned a Masters Degree from Harvard University.

After serving in the US Navy during World War II, he first moved to Boston where he completed his Masters in Civil Engineering and later to Washington, DC and New York City with his new bride Selma Joseph. Pop as most folk fondly called him or Mr. Duke worked on several engineering projects including New York's Lincoln Tunnel, sections of the NY Subways and the Verrazano Narrow Bridge connecting Brooklyn to Staten Island. In the late 1970's he was recruited to Atlanta to work as an engineer on the newly developing MARTA train system. As an engineer, he worked in the Atlanta area until his retirement.

He was committed to fostering education among young people. He took great pleasure working with the New York Chapter of the National Technical Association (NTA), the association his father started in 1926, to assist young African Americans in the science and technology fields. After retiring, he continued working with the NTA and spent years developing a theory of Picture Reading to help young people better learn to read and improve performance in school. He never saw a stranger and never missed an opportunity to tell folk, especially the friends of his children and grandchildren about, his techniques on how to teach children to become competent readers. Picture reading involved sight recognition and decoding word shape to identify specific sounds.

Jesse was a charming man with a winning smile who lived life to the fullest. He was devoted to his family and committed to equality for all. He is survived by his wife, Selma

On Thursday, October 14, 2010 Jesse Duke passed away peacefully with Selma, his wife of 65 years holding his hand while granddaughter, Kamilah, was gazing into his eyes. The youngest child of Eileen Estelle Taylor and Charles Sumner Duke, he was welcomed into the family by his parents, his sister Inez Estelle

Joseph Duke of Atlanta, his daughter Deborah Duke-Ellis of Delaware, his son Roderick Duke of Atlanta grandchildren, Kamilah, Amirah and Makeda Ellis, Talisa and Nia Duke and Omar Duke-Tinson and great grandchildren, Dominic Amir Williams, Naima Ambareen and Amina Simone Ellis-Daniels.



Henry Ledbetter

By William Lupton

The National Technical Association, and, especially the Baltimore Chapter mourns the loss of our faithful and devoted member, Electrical Engineer Henry Ledbetter.

For over 30 years, Henry served as a member of the NTA. He held positions in the Baltimore chapter from secretary, to delegate from the Baltimore Chapter to numerous NTA National Conferences, to President of the Baltimore Chapter, to Regional Director for the Southeast region of the National Technical Association. Henry was very active in the 3T-Mentoring Program, where he mentored and tutored many teachers and countless students to help them improve their mathematical and technical skills. As a volunteer, he supervised a tutorial and mentor program for high school students from Annapolis High School using experience gained from the 3T Mentor program. For his efforts, Henry was awarded The National Technical Association Baltimore Chapter, Mentor of the Year award. He regularly attended NTA meetings, supported and participated in the Baltimore Chapters annual scholarship fundraiser banquet, and assisted with the NTA exhibit at the annual Black Engineers Career Day program in Baltimore where he actively promoted careers in science and engineering.

We are forever indebted to Henry for his many contributions and will miss his devoted leadership. In any given situation, however stressful, one could always rely on his scholarly advice to ease the tension or solve the problem.

As we remember Henry, let us keep in mind the book of Proverbs, chapter 4 : verse 7, "*Wisdom is the principal thing; therefore get wisdom: and with all thy getting, get understanding*". Henry Ledbetter heeded this proverb well, dedicating his life to teaching, mentoring and sharing his wisdom with all. He was a good and faithful servant who will be sorely missed by all who were blessed by his presence. Thank you.

Proving History with Science



Radioimmunoassay and gas chromatography/mass spectrometry (GC/MS), and DNA analyses is being used to prove accounts that Africans came to America before Columbus and that Columbus had Africans with him on his voyages to America.

In March, 2009, T. Douglas Price, a UW-Madison professor of anthropology suggested that up to seven of the 49 skeletons exhumed from La Isabela's 15th-century graveyard about 20 years ago belonged to Africans. La Isabela was founded in 1494 on Columbus' second voyage to the New World. Seventeen ships deposited 1700 people – including farmers, builders and priests – on the part of the island of Hispaniola that today is the Dominican Republic. The DNA analyses conducted by Hames Schroeder of the Centre for GeoGenetics at the University of Copenhagen, Denmark show that at least two of the bodies were Africans. An isotopic analysis of the tooth enamel of three individuals from a group excavated found that the teeth belonged to males under the age of 40 and their carbon isotope profiles were far different from the rest, suggesting an Old World origin. The carbon and strontium isotope ratios in their tooth enamel, which give clues to an individual's diet, pointed at possible African. This conjecture was based on historical accounts that Columbus had a personal African servant.

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Generally, speaking, American history teaches that African Americans first came to America when the first slave ship docked in the mid-17th century. These results suggest that actually started far earlier, at the same time as the Europeans' history on the continent did," says Hannes Schroeder. This is not surprising to some historians and anthropologists who have for years concluded based on historical accounts, archaeological finds, and cultural comparisons that there was an African presence in the New World before Columbus. However, claims of such contacts are controversial and hotly debated.

Pre-Columbian Negroid skulls and skeletons have been found throughout the New World in California, Mexico, Central and South America. Polish professor Andrzej Wiercinski revealed in 1972, the discovery that 13.5 % of skulls at Olmec sites in Tlatilco, and 4.5 % in Cerro de las Mesas and Monte Alban were Afrocoid. He used classic diagnostic traits determined by craniometric and cranioscopic methods which were rejected by some colleagues. More convincing is the findings of P.A. Underhill, et al (1996) that the Mayan people have an African Y chromosome.

Some special pieces of DNA, remain virtually unaltered as they pass from parent to child. One of these pieces is carried by the Y chromosome, which is passed only from father to son. Another piece, mitochondrial DNA (mtDNA), is passed (with few exceptions) only from mother to child. Since the DNA in the Y chromosome does not mix with other DNA, it is like a genetic surname that allows men to trace their paternal lineages. Similarly, mtDNA allows both men and women to trace their maternal lineages.

References:

New Scientist-September 2010 by Shanta Barley
http://www.oocities.org/ekwesi_geo/Skeletal.htm

NTA Chapter News

Baltimore Chapter

Math Contest

Date: May 7, 2011
 Time: 8 a.m. - 1 p.m.
 Place: Morgan State Science Bldg.
 Contact: Joseph Gwin, 410 323-1843

Banquet

Date: June 3, 2011
 Time: 6 p.m. - 10 p.m.
 Place: Morgan State Student Center
 Contact-Fred Oliver, 410 884-3468

Cincinnati Chapter

Robotics competition was kicked-off on January 10, 2011. The title of the competition is “Where In the Neighborhood is Dr Dunn”. The competition focuses on Sustainability – Energy Efficiency and Renewable Energy and Quality Assurance/Control.



Approximately 20 Robots to 17 Cincinnati Public Schools and one Church are in competition. It will take place March 19, 2011. The Robots were purchased by the University of Cincinnati via the American Society for Quality and Toyota.

Those schools and churches that develop a lesson plan for continuous use of the robot will receive the robot for free for their continued use as classroom learning tool. All others will return the robot and/or pay for the \$279. Robot kit....MindStorm robot.

The environmental-robotics committee consists of representatives from the National Technical Association-Cincinnati, Minorities in Math, Science and Engineering (M2SE), St. Mark's Outreach Center, and faculty from the College of Engineering and Applied Science-University of Cincinnati.

Minneapolis/St. Paul Chapter

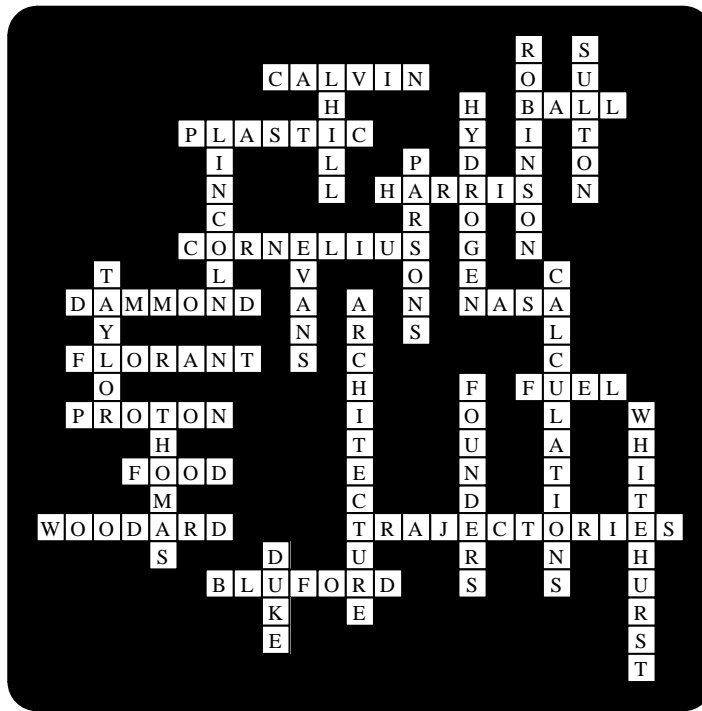
The Minneapolis-St. Paul chapter has a web site up and running. Please check it out.

[NTA-Minneapolis/St. Paul](#)

Washington DC Chapter

The Washington DC Chapter is partnering with the science, technology, engineering, and mathematics (STEM) Division of the Prince George's Community College (PGCC), to co-sponsor the Sixteenth Annual NTA Mathematics Contest Competition. The Math Contest is provided for public and private school students in grades 5th to 12th, throughout the DC, MD and VA metropolitan areas. The 2011 NTA/PGCC Math Contest Competition is scheduled for Saturday, May 7, 2011, on the PGCC Campus. The PGCC is located in Prince George's County at: 301 Largo Road, Largo MD 20774.

Crossword Puzzle Solutions



Membership Chair Yolanda Hinton and Past President Lester Clemons engage Temple University engineering students at the Black Engineer of the Year Conference.



***2011 NTA Conference will be held in Washington, D.C.
Howard University
September 14-16, 2011
In the Blackburn Center at Howard University***

NATIONAL TECHNICAL ASSOCIATION, INC.

2705 Bladensburg Rd., NE

Washington, DC 20018

www.ntaonline.org

Call for Abstracts: Student Technical Symposium

NTA invites you to present papers, through submission of abstracts for our September 2011 Conference

All abstract submissions must indicate the category to which the abstract is most relevant (and second choice, if appropriate). The categories are: Science, mathematics, science and technology. Be sure to indicate any special media requirements at the time of abstract submission. Student presenters must indicate whether, or not they are (at the time of the conference) undergraduate or graduate students. Presentations should be prepared as PC compatible MS word or power point files, and on a floppy disk, compact disk (CD), or USB flash drive (as appropriate). Presentation time is 15 minutes.

The deadline for abstract submission, for consideration for acceptance is April 10, 2011. Abstracts should be sent to Mr. Gilbert Haynes at Gilbert.Haynes@MORGAN.EDU. You will be notified by April 20th if your abstract is accepted. Instructions for preparation of full papers will be provided and papers will be due by August 1, 2011. Funds to support student travel expenses to present at the Conference will be awarded based on availability and on a first come first serve basis. For more information regarding this, contact Mr. Gilbert Haynes at (202) 575-4NTA.

National Technical Association
“The Minority Technical Voice since 1925”

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(go to page 10 or www.ntaonline.org)



The National Technical Association

2011 NTA Annual National Conference

September 14-16, 2011

**Howard University—Blackburn Center
Washington, DC**

Call for Abstracts – Technical Professional Presentations

NTA invites you to participate, through submission of abstracts for presentation at this Conference

All abstract submissions must indicate the category to which their abstract is most relevant (and second choice, if appropriate). The categories are:

Architecture	Information Science
Computer Science	Mathematics
Education	Science
Engineering	Technology

Be sure to indicate any special media requirements at the time of abstract submission. Guidance for full paper preparation will follow. Presentations should be prepared as PC-compatible MS Word or PowerPoint files, and on floppy disk, compact disk (CD), or USB flash drive (as appropriate). Presentation time allowed is **15 minutes**.

The deadline for abstract submission for consideration of acceptance is May 1, 2011.

Send the abstract to both addresses provided below:

Dr. John Trimble jtrimblefamily@hotmail.com

George R. Carruthers george.carruthers@nrl.navy.mil

(Electronic Submission, MS Word). You will be notified by May 15th if your abstract is accepted. **Full papers are due August 1, 2011 to be included in the conference proceedings. Send to the same addresses above. For more information call: (202 575-4682)**



National Technical Association New MEMBERSHIP APPLICATION, RENEWAL or Update Only
(Select One)

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Name Title (Mr Ms., Miss, Dr.) First M.I. Last
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City or Town State Zip Code
Telephone (s) Fax Number E-Mail Address

Education (Circle Highest degree: obtained) AA Degree B.A. or B.S. Degree M.A. or M.S. Ph.D. , MD

College/Univ.

Primary Occupation

(Occupational Goal if Student, Former Occupation if Retired)

Employer Location

Self-Employed Location

Retired Year College/University

Attending (if Student)

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

Local NTA Chapter (if applicable)

Scientific/Technical Interests (in addition to above)

Membership Data

Membership Classification (Circle appropriate classification) Go to www.ntaonline.org for membership definitions New Life
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