

National Science Foundation Partner Meeting
Elizabeth City State University &
The University of New Hampshire

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Minority Professional Organizations Biographies

Hattie Carwell, Ph.D.

Director and co-founder of the Museum of African American Technology (MAAT) Science Village
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Formerly - Operations Lead, US Department of Energy Berkeley Site Office Lawrence Berkeley National Laboratory



Hattie Carwell is the current President of the National Technical Association. On November 12, 1925, Samuel R. Cheevers, F. C. Downs, Charles S. Duke, I. Gough, Howard D. Shaw, Dr. A. D.

Watson, and A. T. Weathers met at the Wabash Avenue YMCA in Chicago to discuss formation of the first organization for minorities in engineering and technology.

The National Technical Association (NTA) founding President, Charles S. Duke, was the first African American to receive an engineering degree from Harvard University. NTA was incorporated in the state of Illinois in 1926. In the 1930s, Charles S. Duke, civil engineer, James A. Parsons, inventor of metal alloys; Cornelius L. Henderson, construction supervisor on the Detroit Windsor Tunnel and Ambassador Bridge projects; Lewis K. Downing, first dean of engineering at Howard University and Paul E. Johnson, inventor provided outstanding leadership as presidents. President Downing along with other NTA members played a major role in saving that institution's School of Engineering from closing.

NTA is still on the move. On September 24, 2009, NTA planned and led the 2009 Science and Technology Round Table of the Ronald H. Brown Series for the Constituency of Africa and the Congressional Black Caucus Foundation during the Congressional Black Caucus Legislative Week. The NTA brought together 6 African American technical organizations along with an equal number of African constituent organizations to begin a dialogue on how

to strategically collaborate on issues/projects on the African Continent and in the U.S. A follow-up session was held November 17. NTA's goal is to become the organization of choice. Carwell wants to position NTA to take advantage of the many funding opportunities to support chapter science education programs spread throughout the US. She has served several terms as President of the Northern California Council of Black Professional Engineers and is a Board member of the National Inventors Hall of Fame.

Dr. Carwell authored Blacks in Science: Astrophysicist to Zoologist and numerous other technical publications. Hattie Carwell has a B.S. in Chemistry/Biology from Bennett College, an M.S. in Health Physics from Rutgers, and an honorary doctorate from Bennett. Her work experience includes positions such as nuclear safeguards inspector and group leaders for five years at the International Atomic Energy Agency in Vienna; senior health physicist with the US Department of Energy (DOE), Oakland Operations Office and research assistant at Thomas Jefferson University.

As the DOE Operations Lead for the Berkeley Site Office at the Lawrence Berkeley National Laboratory (LBNL), she managed the DOE health and safety and environmental oversight program evaluating the LBNL safety performance, development of policy safety requirements; facility safety analysis, and research program reviews.

Andrea Lawrence, Ph.D.

ADMI Representative



Dr. Andrea Lawrence is past-president and current board member of ADMI. She joined the faculty of Spelman College in 1983. She is now Chair of the Department of Computer Science. She received her Ph.D., Computer Science from Georgia Institute of Technology. Her current

Research Interests include Human Computer Interaction, particularly using computer animations to teach computer algorithms. Dr. Lawrence has special Teaching Interests including Programming Languages, Artificial Intelligence, animations and visualization.

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Gail Finley, Ph.D.
ADMI Representative



Gail Finley serves as the treasurer for ADMI. She is an Associate Professor and past chair of the Computer Science Department at The University of the District of Columbia. She received her MS in Mathematics from Howard University. Her specialties include orbit determination, EKG analysis, programming sequence, computer graphics, programming languages, networks and information assurance.

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Carolyn Cousin, Ph.D.
National Institute of Science



Carolyn Cousin is a professor and former chair of the Department of Biological and Environmental Sciences at UDC. Dr. Cousin was recognized in the December 9, 2004 edition of the Washington

Post as a leader in her fields.

She directs the membership efforts of The National Institute of Science (NIS). NIS is one of the oldest national scientific membership organizations to serve students and staff from Historically Black Colleges and Universities. For more than sixty years, the organization has allowed students and educators a forum for the exchange of ideas and research, in the disciplines of mathematics and science. With year-

round academic activities, mentoring and networking events for their members.

National Institute of Science is continually striving to increase the numbers of well-trained minority scientists by giving students the necessary academic support, research experience, internship opportunities and career choices needed to become top working professionals. This is achieved through a scientific network of students, educators and research scientists, committed to the success of the organization.

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Joyce Ward, Ph.D.
National Technical Association



Joyce Ward is a member of the Washington, DC Chapter of the National Technical Association where she assists in the coordination of the annual NTA Mathematics Competition (aimed at DC Metropolitan students in grades 5-12) and participates in other outreach and tutoring initiatives of the Chapter. Ward has served as a judge for the National NTA student papers presentations.

Ward is the Director of Program Support and Intellectual Property for the National Inventors Hall of Fame Foundation (NIHFF). In that capacity she serves as the administrator of the Collegiate Inventors Competition, an annual program honoring innovative university students and their faculty advisors at the undergraduate and graduate levels; works with the Camp Invention and Club Invention programs, both nation-wide, out-of-school time hands-on enrichment programs designed to encourage interest in STEM and creative invention among K-6 graders; and assists in the coordination of ICON, the annual regional and national independent inventor conferences co-hosted with the United States Patent and Trademark Office (USPTO) and designed to educate and inspire independent inventors while providing them with an opportunity to interface with

USPTO officials, patent examiners and other members of the IP community.

Throughout her career, Ward has worked with various outreach and mentoring initiatives designed to educate the public about the importance of STEM and intellectual property protection. Ward received her undergraduate degree from UNC-Chapel Hill in 1987 and her JD degree from the Georgetown University Law Center in 1991. Before joining the NIHFF, she worked as a trademark examining attorney with the USPTO. In 2008, she served as a member of the Obama-Biden Transition Team assigned to the Federal Agency Review Team for the USPTO.

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Gilbert A. Haynes
Morgan State University



Mr. Haynes serves as Special Assistant to the Dean of the Clarence M. Mitchell, Jr. School of Engineering at Morgan State University in Baltimore Maryland. Simultaneously, he serves as the

Managing Director of the Chesapeake Information Based Aeronautics Consortium, a research entity, which includes the University of Maryland Eastern Shore and Bowie State University as constituents with Morgan. He has worked at Morgan for over 10 years. The school of engineering has approximately 700 students, and about 100+ of them are graduate students

The Consortium employs 25 researchers at the three schools. Each of the researchers employ from one to seven students from juniors to doctoral students. These students are employed nearly year around. There can be as many as 50 to 60 students. As a result Mr. Haynes (as a part of his management duties) has the opportunity oversee the hiring and administering to these students. New students are brought into the program each summer through the Summer Institute at Morgan. Mr. Haynes also funds some outreach activities in connection with the consortium. These outreach efforts involve funds for high school robotics activities and Maryland MESA

Mr. Haynes served in Civil Service for 37 years, and retired from the NASA Langley Research Center in Hampton, Virginia in 1994. He served in many capacities during the course of his career. Mr. Haynes served as Head of the Experimental Flight Systems Section. He was responsible for research support associated with advanced avionics systems being developed for potential use on future civil transport aircraft. Mr. Haynes served as Head, Spacecraft Power Systems Section, which was responsible for the design, development, and in most cases, the building of the power systems for NASA Langley's small, low-earth-orbit micro-meteoroid spacecraft. This was the first supervisory assignment of its kind ever given to an African-American at the Langley Research Center.

Mr. Haynes has served in other capacities in many organizations over the years. One such organization was the National Technical Association (NTA). He served as Program Developer for the NTA where he developed and conducted the National Student Technical Symposium for college and university students. The first symposium in, 1980, consisted of 165 students. Mr. Haynes served as NTA National Director for this program for several years. The program enjoyed very good success. He also held offices in the NTA Hampton Roads, Virginia Chapter. Additionally, he served as National Secretary, National President and Executive Director. In the latter two offices he conducted three national conferences and supported three other annual conferences. There were student symposia in each of these conferences. Mr. Haynes received several NTA awards, including NTA Samuel R. Cheevers Distinguished Service Award and the NTA President's Award.

Mr. Haynes earned the Bachelor of Science Degree in Physics in 1962 from Virginia State University, Petersburg, Virginia, and the Master of Science Degree in Physics in 1979 from Old Dominion University, Norfolk, Virginia. Mr. Haynes has also studied at the College of William and Mary and the University of Virginia.

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Minority Professional Organization Memberships

Linda Hayden, Ph.D.

Vice President

The Association of Computer/Information Sciences
and Engineering Departments at Minority Institutions
(ADMI)

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

Johnny Houston, Ph.D.

Cofounder

The National Association of Mathematicians (NAM)

<http://www.nam-math.org/>

Farrah Chandler, Ph.D.

Representative

Infinite Possibilities Conferences (IPC)

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

Member

The National Association of Mathematicians (NAM)

<http://www.nam-math.org/>

William Porter, Ph.D.

Member

National Association of Black Geologists and
Geophysicists (NABGG)

<http://www.nabgg.com/>

Lloyd Mitchell, Ph.D.

Representative

Society for Advancement of Chicanos/Latinos and
Native Americans in Science (SACNAS)

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

Benjamin Branch, Ph.D.

Member

Minorities Striving and Pursuing Higher Degrees of
Success in Earth System Science

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

Eric Akers, Ph.D.

Member

Advancing Robotics Technology for Societal Impact
(ARTSI) Alliance

<http://artsialliance.org/>