

Golden Anniversary 2019



Founded 1969

National Association of Mathematicians Newsletter

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SPRING 2018

The National Association of Mathematicians will host the Twenty Eighth Undergraduate MATHFest on September 28 - 30, 2018 at Spelman College.



NAM Golden Anniversary Celebration and Endowment Campaign (2018-2019)

“Preserving the past while endowing for the future”

The time is fast approaching to begin the celebration of NAM’s **Golden Anniversary** in 2019! Meanwhile, the **Golden Anniversary Endowment Campaign** is now fully operational and involves the largest financial campaign that NAM has ever undertaken. A successful campaign will result in the endowment of many of NAM’s standing programs and activities and ensure the success and effectiveness of their annual occurrence. Every NAM member and friend is invited and truly needed to help reach the campaign goal of \$2 million. This is a small amount to ensure the promotion of excellence in mathematics by the largest and oldest mathematical sciences organization dedicated primarily to the welfare of underrepresented students and faculty, particularly African Americans.

Continued on page 2

NAM's Endowment Campaign (Continued from the cover)

The Endowment Campaign Committee has developed separate brochures for each program to be endowed (listed below). Any brochure will be sent to you electronically by the Campaign co-chairs upon request. You may use it to introduce others to a NAM program for which you wish to help solicit endowment funds. A gift of \$25,000 or more will partially endow one NAM annual program or activity. NAM is a 501(c)(3) non-profit organization, so all gifts are tax deductible. Full endowment amounts for each program are listed below, on brochures, and on the NAM website.

| | |
|-----------------------------------------------------------------|-----------|
| Undergraduate MATHFest | \$500,000 |
| Computational Science Institute | \$250,000 |
| Faculty Teaching & Research Institute | \$250,000 |
| Haynes-Granville-Browne Colloquium Presentations by new PhDs | \$125,000 |
| Claytor-Woodard Lecture | \$125,000 |
| Cox-Talbot Address | \$125,000 |
| Albert T. Bharucha-Reid Lecture | \$125,000 |
| J. Ernest Wilkins Lecture | \$125,000 |
| David Blackwell Lecture | \$125,000 |
| Clarence Stephens-Abdulalim Shabazz Teaching Award | \$125,000 |
| Archives | \$125,000 |

The Campaign Membership Committee will make as many personal contacts as possible. If you have not been contacted individually, please do not let that hinder your support; please contact us. You may send donations to NAM's Secretary-Treasurer (clearly identify them as Campaign donations), donations online at www.nam-math.org/payment.html, or contact one of the campaign co-chairs (see below) to arrange for a donation. All donations of any size are welcome and all will be recognized.

Here is How You Can Support the Endowment Campaign

Make a donation of your choice. We encourage becoming a Golden Anniversary Lifetime Member (\$1,000 or more).

Fully or partially endow a standing NAM program or recommend potential donors

Encourage others to support the campaign with donations or full/partial endowments

Give a gift in honor of a friend or colleague or Include NAM in your future planning.

Golden Anniversary Campaign Committee

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IN MEMORIAM

□

CLARENCE F. STEPHENS, Sr. (1917-2018),
Died on March 5, 2018
A Nationally Acclaimed Master Teacher
of Collegiate Mathematics and a Centenarian

"More than fifty years ago, I arrived at the conclusion that every college student who desired to learn mathematics could do so. I spent my entire professional life believing that this was the case." Clarence Stephens, June 20, 1997.

Clarence Francis Stephens was the fifth of six children (3 girls and 3 boys) born to Sam Stephens (a chef and railroad worker) and Jeannette Morehead Stephens in Gaffney, SC on July 24, 1917. Sadly, his mother died when Clarence was two; his father died when he was eight and all six children went to live with their maternal grandmother who died when Clarence was ten. The three boys went to Harbinger Institute, a boarding school in Immo, SC where they worked on the Farm (in summer) to pay for their schooling (in winter). All three boys attended Johnson C. Smith University (JCSU) and all three majored in math. Clarence graduated in 1938 and began graduate study in mathematics that fall at the University of Michigan (UM). Unknown to Stephens, Joseph Pierce earned a PhD in Statistics from UM in spring 1938, the first African American to earn a PhD in the mathematical sciences at UM. The two never met. Stephens received his graduate degrees in mathematics degrees from UM 1939 (M.S.) and 1943 (PhD). After a tour as a Teaching Specialist in the US Navy (1942-1946), he joined the faculty of Prairie View A&M University as a math professor. In 1947, the President of Morgan State University (Morgan) sent Dr. Stephens an invitation to join Morgan as a math faculty. One of his main reasons for going to Morgan was that he would be near John Hopkins University, a major research institution. Dr. Stephens' focus was on research at the time. He published two papers in major mathematics journals in the early 1950's and he spent a year in research activities at the Institute of Advanced Study (IAS). While at Morgan, Dr. Stephens became appalled at what a poor job that was being done, in general, to teach and inspire students to learn mathematics. He then completely changed his focus to that of being a Master Teacher in collegiate mathematics. He remained at Morgan until 1962. Prior to his arrival at Morgan, no student from Morgan had

earned a graduate degree in the mathematical sciences. Some undergraduates who studied under Prof. Stephens at Morgan who later earned a doctorate degree in the mathematical sciences are Earl Barnes, Vassily Cateforis, Earl Embree, Gloria Ford Gilmer, Arthur Grainger, Charles Moore, Sylvester Reese, Robert Smith, and Scott Williams. Three of Prof. Stephens Morgan students who earned a PhD in math, graduated from Morgan the same year.

In 1962 Dr. Stephens accepted an appointment as professor of mathematics and dept. chair at the State University of New York (SUNY) at Geneseo and in 1969 he joined SUNY at Potsdam, serving as Professor and dept. chair until his retirement in 1987. During his tenure at Potsdam the department became nationally known as a model of Teaching Excellence in mathematics. For several years, the program was among the top producers of undergraduate mathematics majors in the country. For several years in the 1980's over 20% of all graduates at Potsdam were mathematics majors (national average 1%), without sacrificing rigor or quality. In 1985, over 25% of all graduates and over 40% of the honors students were mathematics majors at Potsdam. While Potsdam enrollment was around 4,000 in 1985-87, Potsdam produced the third largest number of mathematics majors of all institutions in the USA with UCLA producing the largest number during these three years,

(Continued on Page 8)



Dr. Rudy L. Horne (1968 – 2017)
 RECEIVES
**NAM'S 2018 LIFETIME ACHEIVEMENT
 AWARD (Posthumously)**

Dr. Horne was one of two persons to receive a NAM Lifetime Achievement Award at NAM's National Meeting (JMM) in San Diego, CA in January 2018. Dr. Rudy Lee Horne, Jr. was born in Chicago in 1968, to Rudy L. Home Sr. (preceded in death) and Carolyn Horne. Rudy passed away unexpectedly on December 12, 2017, at the age of 49 while serving as an Associate Professor of Mathematics at Morehouse College. Horne is best known as the Mathematics Consultant for the 2017 Oscar nominated movie "Hidden Figures." He has been described as a "Rock Star" in the Mathematics community. In the film *Hidden Figures*, it was his job to verify that the mathematical equations used in the film were accurate, write out equations on the chalkboard and train Taraji P. Henson, star of "Hidden Figures," how to best represent the role and speak the language of the mathematician Katherine Johnson that she was portraying. He gave the NAM David Harold Blackwell Lecture at the 2017 MAA Summer MathFest in Chicago. Dr. Horne joined the faculty at Morehouse in 2010 and was promoted to associate professor in 2015. Earlier, he served as an assistant professor at FL St. University for five years; a post doc researcher at UNC – Chapel Hill for three years, and an asst. prof. at Cal St. U., East Bay for a year. Dr. Horne was a 1991 graduate of the U. of Oklahoma, where he double majored in Physics and Mathematics. He held Master's

degrees in Physics and Applied Mathematics and a PhD (2001) in Applied Mathematics from the University of Colorado at Boulder. His research focus was in (a) the mathematical analysis of certain nonlinear optical phenomena, (b) analysis of solutions to certain mathematical models arising from the study of AlGaAs waveguide arrays and Bose-Einstein Condensate models and (c) applying dynamical systems models to probabilistic models for queuing systems, while using basic numerical computations for solving ordinary and partial differential equations in Matlab, C and FORTRAN. He taught a variety of mathematics courses and conducted mathematics research with a varied group of researchers. He took pleasure in coaching research projects with undergraduate students at Morehouse. He was a scholar and a dedicated teacher to his students; he inspired them, he motivated them and he challenged them. He is being missed by colleagues, students, friends and others who cherished his warm and vibrant personality. On Friday, February 16, 2018 at 2:30 pm, Morehouse held a Memorial Service for Dr. Horne on campus and a scholarship has been setup in his honor at Morehouse. Many persons from near and far attended.

By Johnny L. Houston



Dr. Carolyn R. Mahoney
RECEIVES
NAM'S 2018 LIFETIME ACHIEVEMENT
AWARD

Dr. Carolyn Mahoney was one of two persons to receive a NAM Lifetime Achievement Award at NAM's National Meeting (JMM) in San Diego, CA (Jan. 2018). Carolyn Ray Boone Mahoney was born in Memphis, TN in 1946 to Stephen and Myrtle Boone. Carolyn attended a Catholic school where she was encouraged in her interest in math by the nuns. After high school, she attended Mount St. Scholastica College, an all-female college in Kansas, for three years before finishing her B.S. degree in mathematics at Siena College in Memphis in 1970. She earned graduate degrees in mathematics from The Ohio State University (OSU), the MS in 1972 and the PhD in 1983. Her doctoral thesis was supervised by Dr. Thomas Allan Dowling. She was among the first 30 African American women to receive a PhD degree in mathematics. While in Ohio she served on the mathematics faculties at Denison University and (OSU) and participated in outreach and retention programs. For her contributions to education, in 1989 she was inducted into the Ohio Women's Hall of Fame. Dr. Mahoney spent the 1990's at California State University San Marcos, where she was one of twelve founding faculty, a professor of mathematics, department chair, and interim vice president for academic affairs. She also enjoyed a sabbatical year at the MSRI in Berke-

ley, CA. In the 1990's, she also served as a Program Director at the National Science Foundation for 15 months. In fall 2000, Dr. Mahoney joined Elizabeth City State University (ECSU) in NC as dean of the Sch. of Math, Science and Tech. and was later selected as provost and v. chancellor for academic affairs. While at ECSU, she was a visiting scholar with the Carnegie Foundation for the Advancement of Teaching, in Menlo Park, CA. She authored or co-authored several publications in graph theory and combinatorics, her mathematical research area, as well as publications in mathematics ed. and curricular effectiveness. In 2005, she became the 18th president of Lincoln University in Missouri, the first female to hold that post. In 2007, she received the Ralph S. Brown Award for Shared Governance from the AAUP. Dr. Mahoney retired from Lincoln in 2012, and then served on the Coordinating Board for Higher Education until December 2017. A Life Member of NAM, she gave the NAM Claytor-Woodard Lecture in 1997.

By Johnny L. Houston

NAM, Congress, State of NC, and City of Winston Salem Honored Centenarian, Dr. Virginia K. Newell (1917 -), Mathematics Educator, Author and Civic Activist

By Johnny L. Houston



Dr. Virginia K. Newell celebrated her 100th birthday on Oct. 7, 2017. A resident of Winston-Salem, NC, she developed the Computer Science program at Winston-Salem State University (WSSU) and became chair of the Department of Math and Computer Science before retiring in 1985. She began her long illustrious career in 1965 at WSSU. Prior to joining WSSU she taught mathematics in Raleigh at Washington HS, J. W. Ligon HS and Shaw University. In 1980, she co-edited **Black Mathematicians and Their Works**, the first book published on African American Mathematicians. She began working as a committed and active supporter of NAM in 1970 and she became the Editor of NAM's Newsletter in 1974 and continued into the early 80's. She also served NAM in several capacities, including Coordinator of Workshops and Institutional Representative. She was elected to Winston Salem City Council in 1977, along with Vivian Burke and Larry Little. Newell and Burke were the first two African-American women to be elected, which was then called the Board of Aldermen. *"We spent many, many hours together, the three of us, to see what we could do to make all people in this city important,"* said Burke. Newell served for 16 years and was known as a champion of racial equality, fair housing and economic justice. Newell led the effort to build the East Winston Shopping Center. She is credited with founding the YWCA's Best Choice Center and was among the sisters in the Alpha Kappa Alpha Sorority, Inc. that helped develop the Ivy Arms Apartments and Community Center. She is recognized as a platinum member of the Winston-Salem Chapter of

Links, where she focused on voter registration. On the floor of the U. S. Congress on Oct. 4, 2017, a Resolution was read by NC Representatives Butterfield and Adam acknowledging her 100th Birthday. At a special reception at Winston Salem City Hall (on Nov. 20, 2017), State Sen. Paul Lowe presented Dr. Newell with the Order of the Long Leaf Pine, one of the most prestigious awards conferred by the governor of NC; Mayor Allen Jones presented Dr. Newell with the Key to the City; Councilman Darwin Montgomery, East Ward, presented Dr. Newell with a resolution from the city. After these presentations, the centenarian gave brief remarks, saying "I tried to put aside political party and help everyone I represented." "We were adamant about changing things down at City Hall, she said. *"I worked hard for the East Ward because I look like them and they needed it."* NAM honored Dr. Newell with a Centenarian Award at NAM's National Meeting (Jan. 2018 JMM). Dr. Newell, a graduate of Atkins High School in Winston Salem, NC, received a BS degree from Talladega College (math), a master's degree from New York U. and a Doctor of Education degree from the U. of Sarasota. She was born as one of nine children to Mr. William and Mrs. Dinah Kimbrough. She was married to George Newell for 43 years. They have two daughters (both are physicians and one is the National President of Links, Inc.): Dr. Glenda Newell-Harris and Dr. Virginia D. Banks. Dr. Newell has six grandchildren and one great-grandchild. **NAM wishes Prof. Newell a belated 100th Birthday Celebration.!**



**FROM NAM'S PRESIDENT Edray Goins, Jr.
NAM'S 2018 NATIONAL MEETING**



The 2018 Joint Mathematics Meetings/NAM's National Meeting was held in San Diego, California from Wednesday January 10 through Saturday January 13. As usual, NAM held several large events.

On Wednesday January 10, NAM participated in a joint panel discussion titled "Implicit Bias and Its Effects in Mathematics". This activity was co-sponsored by the Mathematical Association of America (MAA), the Joint Committee on Women in Mathematics (JCW), and the Association of Women in Mathematics (AWM); and co-organized by **Andrew Cahoon** (Colby-Sawyer College), **Naomi Cameron** (Lewis & Clark College), **Charles Doering** (University of Michigan), and Semra **Kilic-Bahi** (Colby-Sawyer College). Moderated by **Maura Mast** (Fordham College at Rose Hill), panelists included **Ron Buckmire** (National Science Foundation and NAM Board Member), **Jenna P. Carpenter** (Campbell University), **Lynn J. Garrioch** (Colby-Sawyer College), **Joanna Kania-Bartoszynska** (National Science Foundation), and **Francis Su** (Harvey Mudd College).

On Friday January 12, NAM held its annual Hayne-Granville-Browns Session of Presentations by Recent Doctoral Recipients. Moderated by **Talitha Washington** (Howard University), the three-hour session featured eight speakers:

Bobby Wilson (Massachusetts Institute of Technology)
Orthogonal Projections and Regularity of Sets
Cory H. Colbert (Williams College)
Enlarging Noetherian Rings While Preserving Their Spectrum

Kendra E. Pleasant (Morgan State University)
Central Sets Theorem in Adequate Partial Semigroups
Haydee Lindo (Williams College)
Trace ideals and their applications in commutative algebra
Alexander Diaz-Lopez (Villanova University)
A proof of the peak polynomial positivity conjecture
Melissa Guemo Ngamini (Morehouse College)
Nonlinear Filtering Problems for systems governed by PDEs
Kamal K. Barley (University of Cincinnati)
Implications from Modeling of Visceral Leishmaniasis Transmission: A Region-dependent Characterization of Risks
Karen T. Hicklin (University of North Carolina at Chapel Hill)
A Bayesian Markov Decision Process to Evaluate Mode of Delivery

The NSF-Funded Mathematics Institutes provided an award for the Best Speaker at this session. The award provides (1) a certificate, and (2) reimbursement for the winner's expenses to attend one scientific workshop at any of the nine NSF-Funded Math Institutes during the 18 months following the New PhD Session. This year, **Kendra E. Pleasant** was the winner.

Later that Friday evening, NAM held its annual Banquet. We presented Centenarian Awards to NAM members who turned 100 years old: **Virginia Kimbrough Newell** (Winston-Salem State University) and **Clarence F. Stephens** (SUNY Potsdam). Dr. Newell is the last living author of the book "Black Mathematicians and Their Works".

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Clarence Stephens In Memoriam

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Berkeley producing the second largest number one year and the University of Illinois (Champaign-Urbana) producing the second largest number during the other two years.

The teaching techniques that Prof. Stephens used at Potsdam, and earlier at Morgan have been in publications by the MAA and others, and in a book, **Math Education at its Best: The Potsdam Model**, by **Datta** (Center for Teaching/Learning of Mathematics, 1993). Dr. Stephens discovered at a very early age that he could learn mathematics with very little help from his teachers. This ability to read mathematics with understanding, and to enjoy it for its intrinsic beauty, accounts for much of his success in becoming a mathematician. His teaching techniques consists mainly of developing these abilities in students. He realized that a student who can study independently and find joy in learning new ideas has much of what is required for success in mathematics.

The MAA gave Dr. Stephens the 2003 Gung - Hu Award for Distinguished Service for his outstanding work of successfully developing and implementing the Morgan-Potsdam Model. In 1991, the Board of Governors of the MAA established the Section Awards for distinguished College or University Teaching of Mathematics to recognize teachers of Mathematics at the post-secondary level who have been widely recognized as extraordinarily successful. The Seaway Section of the MAA in the Spring 2003 meeting of the Seaway Section named the Distinguished Teaching Award after Dr. Clarence F. Stephens, the naming received final approval in the Fall Meeting in 2004. Since then, the Clarence F. Stephens Distinguished Mathematics Teaching Award has been awarded annually.

Dr. Stephens was the 9th African American to receive a PhD in mathematics (1943). His specialty area was statistics. Professor Stephens has received numerous honors and awards. In 1942 he received a Julius

Rosenwald Fellowship (UM). In 1953-4, he received a Ford Fellowship for study as a member of the Institute for Advanced Study at Princeton University where he worked alongside Dr. Albert Einstein. In 1962, he was honored by Governor J. Millard Tawes of Maryland, and in 1987 by Governor Mario Cuomo of New York, both citing distinguished service to Education. While at Potsdam, he received the 1976-77 SUNY Chancellor's Award for Excellence in Teaching. Dr. Stephens was inducted into the National Museum of American History, Smithsonian Institution in Washington, DC in 1983. He is a recipient of three honorary doctorates: from JCSU (1954), from Chicago State University (1990), and from SUNY (1996). In 1998 Dr. Stephens received the National Association of Mathematicians (NAM) Lifetime Achievement Award. In July 2017 Potsdam held a two-day Symposium/Recognition Celebration on campus in his honor, celebrating his 100 birthday. At NAM's National Meeting in January 2018 at the JMM, NAM gave him a Centenarian Award and named an annual Teaching Award in his honor. After his retirement in 1987, he gave invited lectures and seminars on Mathematics Education at colleges and universities in the USA and Canada.

Professor Stephens died on Monday, March 5, 2018, in Conesus, NY after a brief illness, at age 100 years. He was predeceased by his wife Harriette Briscoe Stephens in 2007; the two married in 1942 (she was a former college math professor). He is survived by his children, Dr. Jeannette Stephens of Bellingham, WA (who earned a PhD in mathematics education) and Clarence Stephens Jr. of Conesus (who earned a M.S. degree in mathematics). He was buried with Military Honors at Temple Hill Cemetery, Geneseo, on March 12, 2018.

By Johnny L. Houston

(The author had the honor to relate personally to the Stephens.)



Amassa Courtney Fautleroy, III (1945 - 2017)

Born: April 5, 1945 Baltimore, MD
 Died: October 19, 2017 Durham, NC

1970: PhD, Northwestern University
1967: M.A., Northwestern University
1965: A.B., John Hopkins University
Class of 1962: Baltimore Polytechnic Institute

Amassa C. Fautleroy, III, an Emeritus Professor of Mathematics at NC State University, died unexpectedly on October 19, 2017 at the age of 72. He was born in Baltimore, MD to the late Christine Hayes Coleman and Amassa C. Fautleroy, Jr. He was educated at Johns Hopkins University (A.B.) and Northwestern University (M.A., PhD); all of his degrees were in mathematics.

Professor Fautleroy research interests involved studies of actions of algebraic groups on projective algebraic varieties and applications of these to classification and moduli problems in algebraic geometry. Some special interests included the study of complete intersections on toric varieties and the use of invariant theory to find canonical forms for such varieties. Secondary interests included complex manifolds, differential geometry and symmetric spaces.

As a mathematician, he had a fruitful and productive career in breadth, depth and variety. His first academic appointment was at DePaul University. In 1972 he was appointed Assistant Professor of mathematics at the University of Illinois at Urbana-Champaign, becoming an Associate professor in 1978. From January 1981 until June 1982, he was a Visiting Fellow at the Institute of Advanced Study at Princeton. Shortly after this, he accepted an appointment from the City University of New York, City College where he was a full professor in 1985. In 1986, he accepted an appointment as full professor at NC State University (NCSU). He is believed to be the first African American to receive an appointment of full professor in the mathematics department at NCSU. He retired from NCSU in 2013. During his career, he published at least twenty (20) scholarly publications, was the adviser of three (3) PhD students, all at NCSU, and he was heavily involved with the professional mathematical sciences community in many different ways. He was active in various capacities with the American Mathematical Society (AMS), The National Association of Mathematicians (NAM), the Conference for African

American Researchers in the Mathematical Sciences (CAARMS) and others. He frequently attended the annual Joint Mathematics Meetings (JMM) where he was an invited speaker or a presenter at one of the special sessions. At NAM's national meeting at the JMM in San Francisco in 1991, NAM was delighted when he accepted its request to be the Invited Keynote Speaker for NAM's major research address at the JMM: The Annual Claytor-Woodard Lecture. His name and his involvement were also prevalent at the National Science Foundation (NSF) with grants and fellowship programs. Moreover, he related with research activities and programs at the Mathematical Sciences Research Institute (MSRI) on the west coast as readily as he did with those at the research institutions near Research Triangle Park (RTP). His career approach to mathematics is worthy of emulating. For his achievement and contributions, he received several recognitions and awards including NAM's Distinguished Service Award (1991) and he was selected to be included in Who's Who in Mathematics/Applied Mathematics in 2003. In addition to being an accomplished mathematician, he enjoyed music and he was supportive of activities that he felt strongly about in his community.

He was preceded in death by his younger sisters, Nina Russell and Sarah Parker. Professor Fautleroy is survived by his loving wife of 17 years, Lillie Lathan Searles of Durham, NC; his oldest sister, Julia Mosby of Baltimore, MD; three biological children, Courtney (Tisha) Fautleroy of Durham, NC, Paul Fautleroy of Santa Monica, CA, and Whitney Fautleroy of Alexandria, VA; and two children by marriage, Rachel Searles of Raleigh, NC and Kimberly Searles of Durham, NC; and by other relatives.

By Johnny L. Houston



JOINT
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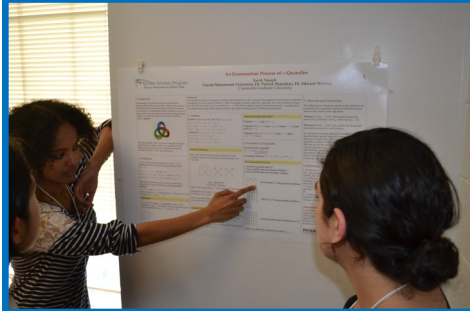


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From the President
(continued from page 7)

Dr. Stephens passed away just a couple of months after receiving the award. Both received their accolades in absentia, although their plaques were mailed later. We also presented two Lifetime Achievement awards: **Rudy L. Horne, Jr.** (Morehouse College) and **Carolyn Mahoney** (Lincoln University of Missouri). Dr. Horne, the mathematics consultant for the film "Hidden Figures" and the 2018 MAA-NAM Blackwell Lecturer, passed away unexpectedly in December 2017. Dr. Mahoney was not able to attend the Banquet in person, but provided some remarks which were read aloud. The evening closed with the Cox-Talbot Lecture. Erica Walker (Teacher's College, Columbia University) gave an address titled "Hidden in Plain Sight: Mathematics Teaching and Learning Through a Storytelling Lens".

On Saturday January 13, the day's activities began with NAM's Annual Panel Discussion. The topic was "Advising Our Students on the Transition to the 1st (or 0th) Year of Graduate School". Moderated by **Duane Cooper** (Morehouse College), panelists included **Chelsea Walton** (Temple University), **Trachette Jackson** (University of Michigan), **Douglas Mupasiri** (University of Northern Iowa), and **Michael Young** (Iowa State University). Directly after, **Edray Herber Goins** (Purdue University and NAM President) presided over the NAM Business Meeting in which the Stephens-Shabazz Teaching Award was approved. That afternoon, **Ronald E. Mickens** (Clark Atlanta University) gave the Claytor-Woodard Lecture on "Nonstandard Finite Difference Schemes: Impact, Importance, and Dynamical Consistency".

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*(Full endowment amounts listed. For more info.
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Clarence Stephens-Abdulalim Shabazz

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Workshop on Teaching Mathematics from Primary Historical Sources Denver, CO September 13-15, 2018

Have you been frustrated by textbook presentations that burden students with jargon and lack of context? Have you wondered whether your students could learn mathematics more effectively if you could connect what you teach more clearly to the ideas that motivated the mathematicians who initially developed them? Are you interested in using the history of mathematics in your teaching, but are disappointed by "sidebar" approaches that treat the history as a superficial add-on to the main discussions?

If you can answer "yes" to any of these questions, then you may be interested in teaching materials being developed by an NSF-funded team of mathematicians under the TRansforming Instruction in Undergraduate Mathematics via Primary Historical Sources (TRIUMPHS) project. The TRIUMPHS team is designing classroom modules called Primary Source Projects (PSPs) that can be used to teach topics across the standard undergraduate mathematics curriculum through the reading and study of primary historical sources (in English translation).

TRIUMPHS will hold a workshop on teaching with original sources at the University of Colorado Denver from September 13-15, 2018, to bring PSP authors and potential classroom site testers together to learn more about its work. Individuals interested in learning to use PSPs or in testing a TRIUMPHS PSP, now or in the future, are encouraged (but not required) to attend! See the Workshop flyer and link for application form posted at the TRIUMPHS website: <http://webpages.ursinus.edu/nscoville/TRIUMPHS.html>

The full application procedure and expectations for site testers are outlined here:

<http://webpages.ursinus.edu/nscoville/Site%20tester%20Application%20Procedure%20and%20Expectations.pdf>

Applications submitted by June 8, 2018 will be given priority. Travel, lodging, and some meals will be provided for workshop participants.

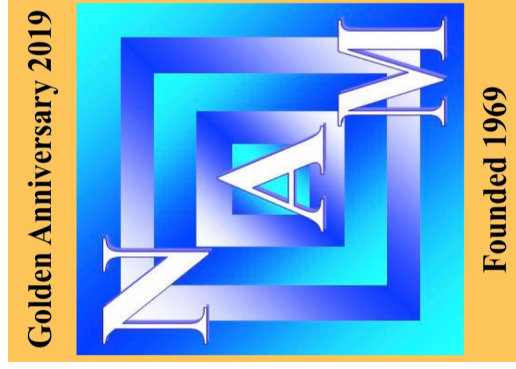
A list of PSPs that TRIUMPHS expects to have ready for classroom testing by Fall 2018 can be found here:

<http://webpages.ursinus.edu/nscoville/projects.html>. For full descriptions of these and all PSPs to be developed by TRIUMPHS, visit <http://tiny.cc/k5ebby>.

On behalf of the TRIUMPHS PI Team

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