Spring 2019 Newsletter

SPRING SECTION MEETING AT HOOD COLLEGE AND FREDERICK COMMUNITY COLLEGE

The Spring 2019 Meeting of the MD-DC-VA section of the MAA will be held at Hood College and Frederick Community College on April 12-13, 2019.

Friday: The afternoon workshop on Friday will be run by Amy Shell-Gellasch of Eastern Michigan University entitled Smithsonian Learning Lab: A Hands-on Workshop. The banquet address, e in a Box of Cereal. Surprising Places to Find Exponentials and Logarithms in Everyday Life, will be given by Brian Lins of Hampden-Sydney College.

Saturday: The morning address Splendor in the Graphs, will be given by Jennifer Beineke of Western New England University. The afternoon address Seeing the (Game) Trees for the Forest, will be given by Brant Jones of James Madison University.

See pages 4 and 5 for more information.

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UPCOMING MEETINGS
• MathFest
  July 31—Aug 3, 2019 in Cincinnati, OH
• MD-DC-VA Section Fall Meeting
  Nov 8—9, 2019 at Norfolk State University
JOHN M. SMITH
DISTINGUISHED
TEACHING AWARD

Nominations for the 2019 MAA Section Awards for Distinguished College or University Teaching of Mathematics are now being accepted. The Award Selection Committee will determine the recipient of the John M. Smith Teaching Award and the awardee will be honored at the Spring 2019 Sectional meeting and will be widely recognized and acknowledged within the Section. The awardee will also be the official Section nominee for the 2020 MAA Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics.

Anyone may make a nomination, but nominations from chairs or MAA liaisons in departments of mathematical sciences are especially solicited. An outline of the nomination process can be found on the web site: http://sections.maa.org/mddeva/smith_award.php

SISTER HELEN
CHRISTENSEN
SERVICE AWARD

Congratulations to Dan Kalman of American University, the 2018 recipient for this service award!

The Sister Helen Christensen Service Award is given each fall for outstanding service to the profession. The award is given at the MD-DC-VA Fall Sectional meeting and comes with a certificate and citation published in MAA on-line, the section website and the MD-DC-VA section newsletter. The award is named after Sister Helen Christensen, in honor of her lifetime of service to mathematics education and the section.

SECTION CHAIR’S REPORT

Greetings! I hope that this report finds you, your families, and your friends well. I enjoyed seeing many of you this past fall at the Mary Washington meeting and in Baltimore for the Joint Mathematics Meetings!

This is my last report as Section Chair, so I wanted to highlight a few things that happened in the last two years. First, communication in our section was improved with the creation of a Section-level department liaisons list (a few years ago, national MAA decided to end the liaison program, but allowed sections to develop their own liaison list). Second, the executive committee worked to develop budgetary guidelines to support the Program Chair in bringing in workshop and invited speakers; this resulted in the first increase in regular registration fees (from $20 to $25) in over a decade. I’m happy to report that our registration fee is still among the lowest across all of the MAA sections! Finally, the executive committee has begun a concerted push to focus more on inclusion; we aim to have more underrepresented groups at our meetings at the undergraduate, graduate, and faculty level. This of course includes women and minorities (two groups that have been traditionally underrepresented in mathematics), but by inclusion we also desire to have more faculty members from two-year institutions, high schools, and BIG (business, industry, and government). We welcome any and all ideas and suggestions about how to accomplish any piece of this!

For now, I hope to see each and everyone one of you at the spring meeting in Frederick, MD, co-hosted by Hood College and Frederick Community College. For this meeting, our section is part of a pilot to have interpreters on Saturday at invited talks and throughout the day; we will have guests (students and faculty) from Gallaudet University (a school for the deaf and hard-of-hearing), and I hope all of you will join me in welcoming them to our spring meeting! Special thanks are due to Emily Meehan and Jim Nickerson at Gallaudet for working with me and others to make this happen.

Finally, if I don’t see you in Frederick, I hope to see you in Cincinnati this summer (MathFest), at Norfolk State University this fall (Section Meeting), in Denver next January (Joint Mathematics Meeting), or at Salisbury University next spring (Section Meeting)!

David Taylor
MD-DC-VA Section Chairperson
taylor@roanoke.edu
As this very cold, snow-filled winter continues to linger, I look forward to our Spring meetings at Hood College and Frederick Community College on April 12-13. It will be an exciting meeting. To ensure that all participants feel welcome and included we will have American Sign Language/English interpreters. Two of our section members will be sharing invited addresses. Brian Lins, Hampden-Sydney College, will be sharing the banquet address: *e in a Box of Cereal. Surprising Places to Find Exponentials and Logarithms in Everyday Life* and Brant Jones, James Madison University, will be sharing the Saturday Afternoon Address: *Seeing the (Game) Trees for the Forest*. There will also be great events for the undergraduates: the Radical Dash and the Jeopardy competition (http://sections.maa.org/mdcva/Register_UG_Act.php). The registration deadline for the meetings and student activities is April 4 and there are several hotels with blocked rooms available until March 20 or March 22 (see our section website).

A place close to home, Baltimore, hosted JMM this year and there were some interesting talks. Edray Herber Goins, Pomona College, gave the MAA Invited Address *A Dream Deferred: 50 Years of Blacks in Mathematics* and you can find it on YouTube at https://youtu.be/ZIIMafLL4So. Also available on YouTube is Pamela Harris’ talk, *A Mathematical Journey of Culture, Community, and Collaboration* (https://youtu.be/L2_Xq0xHSQek). It was very encouraging to see the importance that these mathematicians place on community and the way their professional choices reflect this.

The outreach of the MAA is extensive and includes the American Mathematics Competitions (AMC), a series of examinations and curriculum materials that build problem-solving skills and mathematical knowledge in middle and high school students. These include AMC 8, AMC 10/12, American Invitational Mathematics Examination, and the United States of America Mathematical Olympiad (USAMO) and United States of America Junior Mathematical Olympiad (USAJMO), and the Putnam Competition. The MAA AMC Executive team is working on ways to broaden participation and build community. In the Fall they created new editorial boards for the competition programs that include a diverse membership from a variety of careers. This is meant to help more get involved in this fun set of competitions.

A partner organization, the National Association of Mathematicians (NAM), is celebrating 50 years of promoting excellence in the mathematical sciences and promoting the mathematical development of all underrepresented minorities. Founded in 1969, NAM (https://www.nam-math.org/) seeks to promote excellence in the mathematical sciences for underrepresented American minorities in general and African-Americans in particular, but membership is open to all. Happy Birthday NAM!

...continued page 6
FRIDAY WORKSHOP: SMITHSONIAN LEARNING LAB: A HANDS-ON

The Smithsonain Learning Lab is an online resource platform for educators. Launched in 2016, the Learning Lab is ideal for object based learning in and outside of class. College educators have used this platform in all courses of study. Choose from over two million images and resources at the Smithsonian or import materials from other sources. Create a collection of items and resources for your course that students then access in class or at home for discussion or assignments. Students can also create their own collections for assignments or portfolios. In this workshop you will be introduced to different ways to use the Learning Lab and get started creating your own collections.

NOTE: Attendees will need to bring a laptop with Internet access.

Amy Shell-Gellasch received her Doctorate in Mathematics from the University of Illinois at Chicago in 2000. Since a three-year post-doctorate fellowship at the United States Military Academy at West Point, she has taught college mathematics in six states and two countries while following her active-duty military spouse around the world until his retirement in 2017. Her research is in the history of mathematics and she has published scholarly articles and books in this field. From 2013-2017 she conducted research at the Smithsonian National museum of American history and contributed to their web-based resources. Currently Dr. Shell-Gellasch produces content material for the Smithsonian Learning lab, is the Chair of the HOM SIGMAA, and teaches mathematics at Eastern Michigan University.

FRIDAY BANQUET ADDRESS: E IN A BOX OF CEREAL. SURPRISING PLACES TO FIND EXPONENTIALS AND LOGARITHMS IN EVERYDAY LIFE

From boxes of cereal and folding laundry, to catching tax fraud and the United States House of Representatives, we will explore some interesting and surprising places where exponential and logarithmic functions turn up. Along the way, we’ll discuss some of the history and applications of these functions, and even get a glimpse of some very deep mathematical ideas.

Brian Lins is an associate professor of mathematics at Hampden-Sydney College. His research is focused on linear algebra and functional analysis, but he is also interested in many other areas of mathematics and its applications. He lives in the Richmond area with his wife, two kids, and two cats. He has been eating cereal for near forty years, and he has been thinking about the number e for a long time too.
SATURDAY MORNING ADDRESS: SPLendor IN THE GRAPHS

Graph theory can provide an entertaining analysis of certain games and puzzles. Using elementary results, we will explore brainteasers such as Dots-and-Boxes, Brdig-It, Paradoxical Pennies, and Clever Convicts. That should be preparation enough to set us off on a mathematical sort of safari.

Jennifer Beineke is a professor of mathematics at Western New England University, in Springfield, MA. She earned her Ph.D. from UCLA under the supervision of Don Blasius. She has held a visiting position at Trinity College in Hartford, CT, where she received the Arthur H. Hughes Award for Outstanding Teaching Achievement, and she was honored to have been one of the Christie Lecturers for the Northeastern Section of the MAA. With Jason Rosenhouse, she is the coeditor of the Mathematics of Various Entertaining Subjects series, published jointly by Princeton University Press and the Museum of Mathematics. This summer, she will be taking a group of students to London to learn about cryptography.

SATURDAY AFTERNOON ADDRESS: SEEING THE (GAME) TREES FOR THE FOREST

Imagine taking your favorite game and trying to encode it as a combinatorial graph of moves (=edges) between positions (=vertices), by playing through the game in all possible ways. Depending on your point of view, this structure probably seems either extremely specific (e.g. after 18 years, in 2007, more than 50 computers working together succeeded in solving the game tree for Checkers) or else so abstract as to be almost useless (e.g. one can easily prove that there is a winning strategy for the first player in the game of Hex, but no one knows how to describe it). We will survey a few game trees that are planted in the middle ground, with fascinating patterns that invite exploration and proof (often with undergraduates).

Brant Jones is an associate professor of mathematics at James Madison University, where he also coordinates the William Lowell Putnam Competition team and the summer Research Experience for Undergraduates (REU). In addition to games, he is interested in algebraic structures and enumerative combinatorics. This summer, he is leading an REUF workshop for faculty at the Institute for Computational and Experimental Research in Mathematics (ICERM).
In 2018, it was announced that the MAA will no longer co-manage the Joint Mathematics Meetings with the AMS. The AMS and the MAA have shared management, as well as contributed equally to the programming, of the Joint Mathematics Meetings under an agreement that has been in place since 1998. Through extensive discussions over the last 5 years, AMS and MAA have agreed that the 1998 agreement no longer meets the needs of either organization and will end following the Joint Mathematics Meetings in 2021. Hence starting at JMM 2022, MAA national meeting activities will occur at MAA MathFest in the summer. Congress now meets at MathFest and our new Governor/Section Representative will only have one meeting of Congress to attend per year.

The MAA is continually updating its online presence. Available until the end of March is a Virtual Special Issue of articles on the topic of Pi (collected from the four MAA journals), at https://think.taylorandfrancis.com/pi-day-special/. It is encouraging that the MAA continues to be a positive force and looks for opportunities to share good things about mathematics in the online environment. The MAA hosts a great new blog, https://www.mathvalues.org/, and I have spent some of the free minutes I have reading through the postings. I encourage you to check it out.

This will be my last Governor’s report for our section and I appreciated the opportunity to serve our section in this role. I want to say thank you to the officers of our section who spend a lot of time planning and putting on section meetings, organizing student activities, organizing Section NExT activities, writing the newsletter, and managing the financial and administrative affairs of our section. These efforts make our section great as do our many wonderful members. Thank you, it has been a joy to spend time with you and serve in this capacity. I look forward to seeing you at many future meetings.

Jennifer Bergner
MD-DC-VA Section Representative
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NEWS FROM AROUND THE SECTION

◊ **Jiacheng “Jason” Cai** recently joined the Department of Mathematics and Computer Science at Salisbury University. He received his Ph.D. from University of Nevada, Las Vegas. He aims to support the program in actuarial science and leads sessions to prepare for actuary exams.

◊ Congratulations to **Jathan Austin** and **Randall Cone** on receiving tenure and promotion to Associate Professor at Salisbury University.

◊ **Robert (Bob) Tardiff** retired from Salisbury University. During his tenure at Salisbury University, Bob served as chair of the department and associate provost. Additionally, Bob was instrumental in the creation of the Mathematical Contest in Modeling.

◊ **E. Lee May** of Salisbury University is retiring at the end of the spring 2019 term. Lee has been a member of the MD-DC-VA MAA section since 1972. He has been an active member of the section, serving as co-sponsor of the initial MAA student chapter at Salisbury and as chair of the section from 2003 to 2005. He received the John M. Smith Award for teaching in 1997. At Salisbury University, Lee served as department chair and as the first director of CAMS (Center for Applied Mathematics and Science). We offer many thanks to Lee for his years of service to Salisbury University and the MD-DC-VA MAA Section.

◊ **PATHWAYS REU** held at Salisbury University was renewed. **Jennifer Bergner** and **Jathan Austin** with colleagues in the Education Department continue to lead groups of prospective teachers in the research of teaching mathematics for grades K-8. Overall, this is the 6th year for the PATYWAYS REU.

◊ The **University of Virginia** had seven students participate in a summer research program for undergraduates in 2018. The students did projects in probability and in game theory.

◊ Salisbury University’s Mathematics and Computer Science Department was at the top of the list in *The Chronicle of Higher Education* for the highest percentage of female bachelor-degree recipients in computer science among four year public institutions.

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**Found Math:**

Jan Minton (Roanoke College) photographed the amazing structures that formed in a nice snowstorm from the simple object of a table.
Congratulations to our winner for our second annual MD-DC-VA Section Undergraduate Essay Competition — **John Stone**.

*Geometry with a Genius*

For any young and aspiring mathematician, the motive for understanding topics is to wonder about the why’s and how’s. Being curious and fully immersed into what is presented in front of the class is how different understandings, as well as questions, will arise. Any student who finds interest in a field will obtain these features and actions as they continue to learn. Having these types of students is important for any class as they push others to obtain such features, as long as they find interest in said study.

If I had a chance to enroll in a course with a mathematician, it would be with Harold Scott MacDonald Coxeter. He has also been known to go by Donald Coxeter and some refer him as the king of infinite space. Coxeter is well known for his work in geometry and has furthered the topic in many ways. He spent some of his time studying polytopes and complex polytopes. At a young age his parents noticed his gift for mathematics. As a young child he excelled in the field and had a higher understanding of the topics dealt to him. He went on to pursue mathematics and is now known to be one of the greatest geometers of recent time.

Upon reading the biography of his life, *King of Infinite Space*, it was easy to tell that Coxeter would ponder ideas in ways that most mathematicians never did. He would look at a shape and ask questions that were not easily present. He viewed problems at different angles and never focused on the less interesting aspects. It was refreshing to read about a mind such as his. To be in a class with him would help myself but also the entire class learn and see ideas in different perspectives. They did not call him the king of infinite space for nothing.

The class I would take with him would be geometry. Yes, it is his field of expertise, but the reason for choosing this class is more than being able to understand difficult topics with ease. It is more of seeing his mind in action. Being a part of such an experience would better my interest in mathematics. Coxeter is the
type of student who keeps the class thinking. He inspires people to want to ask questions of why and how; not to sit in a chair and agree with what is being presented without fully understanding. Anyone can sit in a classroom and agree with a professor. Those who argue with different ways of thought find that knowing how it works is more necessary than agreeing that it works. Looking at problems from different angles is important for any mathematical question or topic: not everything is done one way. Coxeter lived this way and always saw geometry as a topic that surrounds people. Geometry is everywhere, although maybe to some, not noticeably. For Coxeter to be enrolled in a course with me would be a treat. He could have been the professor and the rest of us might not have noticed for a while. To have the opportunity to work on geometric problems and view certain shapes and theorems would continue my aspiration for mathematics. He is one of the few who felt that not every idea was straight forward; there is always another view point to be seen. To leave something untouched for many years would be a concern to the history and community of mathematics.

**John Stone** is a junior math major at Randolph-Macon College. Favorite math classes? Complex Analysis and Higher Geometry. John also really enjoys riding his skateboard, and playing and listening to music.

**“They did not call him the king of infinite space for nothing.”**

Essay Prompt:

Which mathematician (past or present) would you most want to take a class with?

Which class or what subject would you take with them? Why?

This is the 142 polytope in E6 Coxeter plane project, with vertices colored by directional overlap. This image was created by Tom Ruen in August of 2010.
EVENTS AROUND OUR SECTION

In September, the University of Virginia hosted the first Women's Intellectual Network Research Symposium, with the goal of building a community of women mathematicians in the Mid-Atlantic region. This one-day event featured plenary talks, contributed talks, and a panel discussion:
http://www.people.virginia.edu/~sm4cw/WINRS.html

The University of Virginia math department and their AWM Student Chapter are hosting their first Sonia Kovalevsky Day on March 2:
http://www.people.virginia.edu/~sm4cw/Sonia_Day.html

The SIGMAA Sports held a social event during the Joint Mathematics Meetings on January 19th. JMM attendees were invited to ice skate at the Reisterstown Sportsplex, a Baltimore County facility. SIGMAA Sports Chair Diana Cheng (Towson University) hosted the event.

The Old Dominion University Mathematics & Statistics Department hosted the Second Annual JRMF ODU Mathematics and Computer Science Festival on Saturday, March 2, 2019. The event was also supported by the Computer Science Department and several members of the community. The event was coordinated by organizer Katie Smith and co-organizer Blair Swoope, both faculty in the Department of Mathematics & Statistics. The event was also supported by a team of nearly 50 incredible volunteers including faculty and students. The festival attracted approximately 165 students in 4th through 8th grades from the Hampton Roads area. The theme of the festival was “What’s Your X?” encouraging students to relate to problem solving activities. To promote excitement and enthusiasm for STEM, the organizer created a diverse cast of X characters. The event was a success as students enjoyed problem and puzzle solving activities including Measuring Rice, The Last Chip, Tiling Torment, Candy Conundrum, Switching Light Bulbs, Computer Science, Tower of Rings, and ConHex. Each participant received a t-shirt with the characters, string backpack, snacks, and a character button. Organizers received overwhelmingly positive feedback from parents, chaperones, and participants with over 96% of respondents rating the festival positively. We are looking forward to coordinating the Third Annual JRMF ODU Mathematics and Computer Science Festival in Spring 2020. Information for future events and pictures from past events can be found at: https://fs.wp.odu.edu/k3smith/jrmf/.
This polyhedral spiral was found on the campus of Istanbul Technical University, Istanbul, Turkey.

Photo taken by Roger Nelsen, Lewis & Clark College.

Crossword by Neville Fogarty
Assistant Professor of Mathematics, Christopher Newport University

ACROSS
1 Eye-altering surgery  
6 Dec. 25th  
10 Moves like a dog's tail  
14 Make reparations  
15 Vatican bigwig  
17 Pupils who prepare for tests together, perhaps  
19 Sleep lightly  
20 ___ for tat  
21 Jockey's strap  
22 "Too funny!" or "Mom's gonna kill me!" (depending on context)  
24 "The beer that made Milwaukee famous"  
26 Bollywood film wrap  
27 Riotous state  
29 "Have a blast!"  
33 What you might get if you pay in cash  
36 Lily ___ (pond floater)  
38 "___ with the Wind"  
39 Bar mitzvah dance  
40 Paying attention  
42 Actress Moreno of "One Day at a Time"  
43 Campfire fuel  
45 Key of Paul Dukas's "The Sorcerer's Apprentice"  
47 Burning Olympic symbol  
49 Cuisine with bibimbap and bulgogi  
51 Spherical bodies  
53 Final stage of a chess match  
57 Actor Martin of "Ed Wood" and "EDtv"  
60 two (binary)  
61 "2001: A Space Odyssey" computer  
62 Biblical son of Isaac  
63 Sci-fi shield  
66 "The Odd Couple" playwright Simon who passed away in August 2018  
67 One of many on a guitar  
68 Deliver a speech  
69 "A ___ of Two Cities"  
70 Puts in stitches  
71 Palindromic detection system

DOWN
1 Keeps going  
2 Top story, often  
3 Opposite of north  
4 Hoosier's home: Abbr.  
5 A custodian might have a big one  
6 Ansari ___ (competition won by SpaceShipOne in 2004)  
7 Landing site of July 20, 1969  
8 Shopkeeper on "The Simpsons"  
9 "Old West color," in photos  
10 Commitment symbol  
11 ___ vera  
12 ___ Strip (territory on the Mediterranean)

13 Vehicle for a snowy day  
18 "Don't be ridiculous!"  
23 G.I.'s grub  
25 Apollo 11's Eagle, e.g.  
26 One of many on the Hollywood Walk of Fame  
28 Wolfgang Puck restaurant  
30 Put together  
31 Surjective  
32 2018, for one  
33 ___ Boyardee (canned brand)  
34 Wolf's cry  
35 Geometry class calculation  
37 "___ wins championships" (sports cliché)  
41 Panda Express pans  
46 Went towards  
48 Division of time found in the word EMERALD  
50 Flinches, perhaps  
52 Polishes, as a car  
54 In the lead  
55 Country 50 miles south of Sicily  
56 Pliny the ___ (roman author)  
57 Period of time before Easter  
58 On a cruise, likely  
59 Thing hit with a hammer  
60 Make, as coffee  
64 Catan resource  
65 Long term savings plan: Abbr.
Amy Givler Chapman, Meagan Herald, and Jessica Libertini of the Virginia Military Institute have recently published a pre-calculus book as part of the APEX book series. These are Open-Source texts that are available for a low cost in print or for free electronically through http://www.apexcalculus.com/.

More information is available through the website. Direct any questions to Amy Chapman at chapmanag@vmi.edu.

Robert Barber and Steven Hetzler of Salisbury University have written a new calculus textbook titled “Applied Calculus: Emphasis on Business Decisions,” published by Kendall Hunt Publishing Company. This calculus text emphasizes a different, more holistic approach for teaching calculus to non-mathematics majors. More information on this textbook can be found at the following link: https://he.kendallhunt.com/product/applied-calculus-emphasis-business-decisions.

Della Dumbaugh, University of Richmond, published the following articles:


The article "Why not an Interval Null Hypothesis" by Michael P. Cohen has been accepted by the Journal of Data Science and will appear online later this year. Mike works for American Institutes for Research, a non-profit organization in Washington DC. Section Member Michael P. Cohen is the MAA Congress Representative for Business, Industry, and Government (BIG). Please do not hesitate to send BIG-related concerns to Mike at mpc@juno.com
Heather Russell, University of Richmond, received a $5,000 AWM-NSF Mentoring Travel grant to support travel to work with a collaborator during her research leave in Spring, 2019.

Fern Y. Hunt, National Institute of Standards and Technology—US Department of Commerce, was named a Fellow of the American Mathematical Society for 2019. The citation reads: *For outstanding applications of mathematics to science and technology, exceptional service to the US government, and for outreach and mentoring.*

Chris Lee, Roanoke College, is one of three professors selected as Roanoke College’s first Teaching Scholars, a three-year award. He was recommended from a list of applicants by the Director of the Roanoke College Teaching Collaborative (RCTC) and the RCTC Advisory Board. His work is intended to advance the mission of the Teaching Collaborative, which is “to develop an institutional culture that is collaborative, forward-thinking, and responsive to the needs of a life lived on purpose, engaging faculty, staff, and administration in continuous and productive dialogue about the lives of our students—and our own professional lives—both in and out of the classroom.”

Karin Saoub, Roanoke College, wrote a textbook, *A Tour Through Graph Theory*, which was selected as an Outstanding Academic Title by *Choice* magazine for 2018. *Choice* is the trade magazine for academic libraries, and Outstanding Academic Titles are “must haves” for academic libraries. Karin’s book now joins a select list, representing about ten percent of the 6000 titles reviewed by *Choice* editors each year (most books do not make it to the review stage). Criteria for selection include overall excellence in presentation and scholarship, importance relative to other literature in the field, distinction as a first treatment of a given subject, originality of treatment, and importance in building undergraduate library collections. Karin’s editor Bob Ross writes, “This is a particularly impressive award, I believe, because the book did not target an established course market. You envisioned a text at a level where students could learn to appreciate graph theory and mathematics without the prerequisites required for the upper level course. This then confirms your creative approach and insight into what instructors and students might access to develop a greater interest in mathematics early in the curriculum. This is an impressive accomplishment in the textbook market, which tends to be very conservative in mathematics. It is recognition of an outstanding teaching idea and its successful execution.”
Robert Kennedy is a high school mathematics teacher at Centennial High School in Howard County Maryland. There he works with students to publish a yearly math journal. Currently, Centennial students are working on their fourth issue. The journal is produced completely by students. Specifically, the students write, edit, and proofread all submitted articles, as well as compile the articles into a publishable journal using LaTeX. Current students write most of the articles, but they do have alumni and guest authors contribute as well. Copies of the past journals can be downloaded at

http://chsmathjournal.weebly.com/

Robert is very proud of his students’ work, and his role is limited to recruiting students to serve as editors, or to write articles and to mentor them during the process. He also shamelessly promotes the journal and asks for donations every chance he gets. Printing costs are significant and his editors are a bit behind in their fundraising this year. Please support the mathematical development and work of these ambitious students by sending a check to:

Centennial High School
Attn: Robert Kennedy
4300 Centennial Lane
Ellicott City, MD 21042

In the memo line, please write “Math Journal.” Alternatively, donations can be made online (there is a service fee) by visiting

http://chsmathjournal.weebly.com/become-a-donor.html

The journal includes the names of all its supporters both online and in the journal. How inspiring would it be to these budding mathematicians (your future students?) if they received a flood of donations from professional mathematicians such as yourselves? In addition, the Centennial Math Journal would love to publish articles written by professional mathematicians that are accessible to high school students.

Della Dumbaugh, University of Richmond, taught a course, “Exploring American Mathematics” in Fall 2018. She and her students created the website:

https://www.americanmathematics.org/

the first website of its kind to explore the people who create, the institutions that support, and the cultures that influence mathematics. Viewers can explore the site via one of six main subject areas or one of more than twenty individual projects. In particular, the site features a history of the MAA and a map that shows the spread of the MAA across America in the early 20th century.
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TREASURER’S REPORT

General Fund
Balance, October 16, 2018 $3025.71

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Balance, March 4, 2019 $5448.86

John G. Milcetich Student Achievement Fund
Balance, October 16, 2018 $646.54

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Balance, March 4, 2019 $1173.74

Project NExT Fund
Balance, October 16, 2018 $0.00

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<th>Receipts</th>
<th>Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions</td>
<td>$70.00</td>
</tr>
<tr>
<td>Total Receipts</td>
<td>$70.00</td>
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<tr>
<td></td>
<td>Total Expenses $0.00</td>
</tr>
</tbody>
</table>

Balance, March 4, 2019 $70.00

Section NExT Fund
Balance, October 16, 2018 $1476.71

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Expenses</th>
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</thead>
<tbody>
<tr>
<td>Transfer from General Fund</td>
<td>$780.00</td>
</tr>
<tr>
<td>Total Receipts</td>
<td>$780.00</td>
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<tr>
<td></td>
<td>Total Expenses $502.00</td>
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</tbody>
</table>

Balance, March 4, 2019 $1754.71

IBL Consortium Fund
Balance, October 16, 2018 $2000.00

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Expenses</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Receipts</td>
<td>$0.00</td>
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<tr>
<td></td>
<td>Total Expenses $95.94</td>
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</tbody>
</table>

Balance, March 4, 2019 $1904.06