

THE SEAWAY CURRENT

Newsletter of the Seaway Section of the Mathematical Association of America

Volume 35, Number 2

Spring , 2012

The Section travels to Hamilton College in Clinton, New York for the Spring Meeting April 13-14.

Hamilton College was founded in 1793 as the Hamilton-Oneida Academy, then chartered in 1812 as Hamilton College, the third oldest college established in New York State. Hamilton currently enrolls 1,812 students on a 1,350-acre campus situated on a hilltop overlooking the picturesque village of Clinton, N.Y.

Hamilton's mission is to provide an educational experience that emphasizes academic excellence and the development of students as human beings, as we prepare them to make choices and accept the responsibilities of citizenship in a democratic world of intellect and diversity. Hamilton is a national leader in teaching students to write effectively, learn from each other, and think for themselves.

The Mathematics Department at Hamilton has 9 full-time faculty members. Mathematics is one of the top four most popular majors: 6.6% of all majors at Hamilton are in Mathematics, with about 40 mathematics majors per class year.

Meeting Highlights

The meeting will kick off with the Friday night banquet, featuring **David Bressoud** of Macalester College with “Stories from the Development of Real Analysis”. The Saturday morning slate of speakers includes **Bill Dunham** of Muhlenberg College – “Two (more) Morsels from Euler”, **Robin Lock** of St. Lawrence University – “Bootstrapping: Let your Data be your Guide”, and **Col. Steve Horton** of the United States Military Academy with this year’s Gehman Lecture – “Optimal Generation and Packing of Steiner Trees in a Rectilinear Grid”.

The Speakers:

Friday Evening – The Banquet

David Bressoud, Macalester College “*Stories from the Development of Real Analysis*”

Abstract: Analysis is what happened to calculus in the 19th century as mathematicians discovered that their intuition of how to apply calculus was failing them, especially as their repertoire of infinite series expanded. The conceptual difficulties that they encountered are precisely where we should expect our own students to have trouble.

Understanding how these controversies were resolved illuminates many of the definitions, axioms, and theorems that baffle our students. This talk will focus on the early 19th century and consider two questions: What do we mean by convergence of a series of functions and when, for the purposes of calculus, can we treat an infinite sum of functions as if it were a finite sum? And, how did our modern understanding of the

Fundamental Theorem of Calculus arise, and what does it really say?

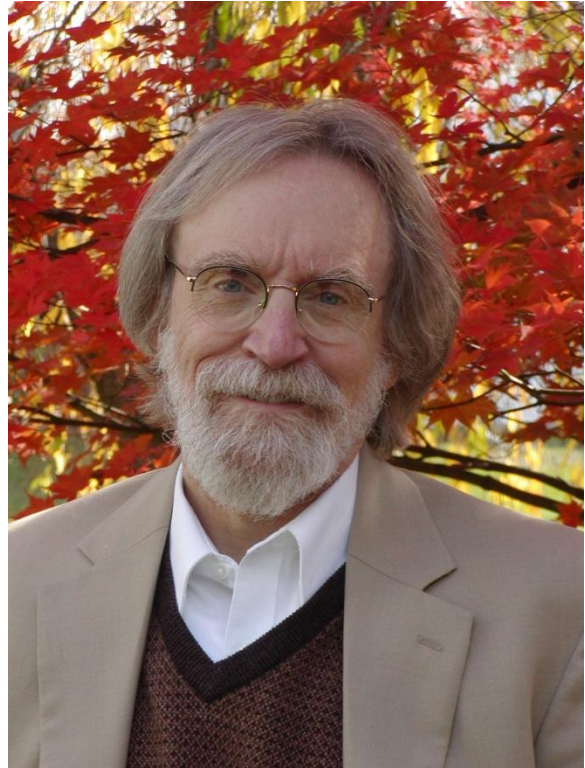


Saturday Morning

1. Bill Dunham, Muhlenberg College

“Two (more) Morsels from Euler”

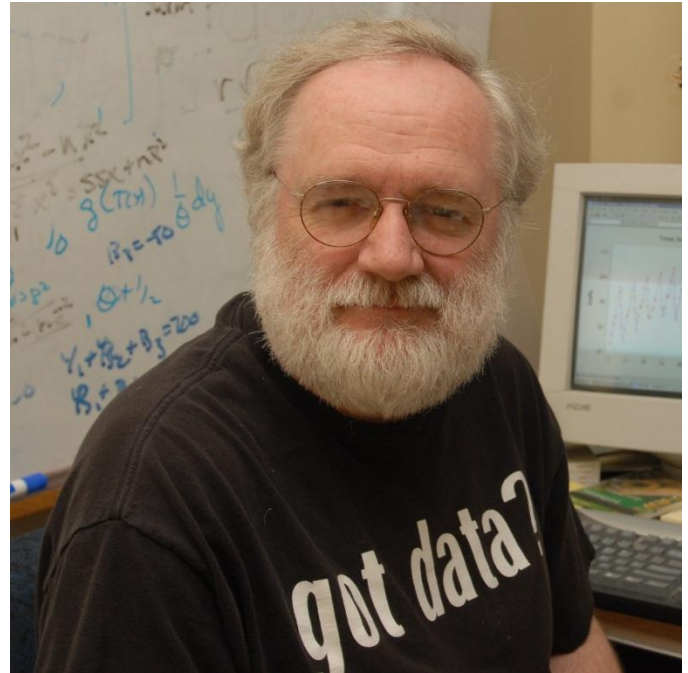
Abstract: Euler’s 2007 tercentenary generated a number of talks about his celebrated mathematical triumphs. Here we examine a pair of lesser-known theorems where his genius was on full display. In the first, we consider Euler’s response to the challenge of finding four different whole numbers, the sum of any pair of which is a perfect square. With characteristic ingenuity, he came up with the fearsome foursome of 18530, 38114, 45986, and 65570. We’ll look over his shoulder to see how he did it. Moving from number theory to analysis, we examine his summation of the series of reciprocals of squares – i.e., $1 + 1/4 + 1/9 + 1/16 + \dots$ – as presented in his 1755 text on differential calculus. The amazing thing about this derivation is that it used l’Hospital’s rule ... not once, nor twice, but thrice! These two results, which require only elementary mathematics, are reminders of why Euler should be celebrated on his 300th birthday and always.



2. Robin Lock, St. Lawrence University

“Bootstrapping: Let your Data be your Guide”

Abstract: The concept of bootstrapping was introduced by Brad Efron in the late 1970’s as a computer-intensive simulation method to gain information about the distribution of a sample statistic using only the data in the sample itself. Advances in computer technology have made this technique increasingly accessible and useful, but common initial reactions are that it is either “magic” or “cheating” (analogous to elevating yourself by pulling hard enough on your boot laces). This talk will attempt to de-mystify the procedure and show how/why it works (and when it doesn’t). We also discuss how this approach can be made accessible to students with minimal background as a way to introduce important ideas of statistical inference at the early stages of a course.



3. Col. Steve Horton, US Military Academy– The Gehman Lecture

“Optimal Generation and Packing of Steiner Trees in a Rectilinear Grid “

Abstract: In this research, we seek to find an algorithm for an optimal generation and packing of Steiner trees in a rectilinear grid. This problem arises in computer chip design where a set of terminals on a prescribed set of components needs to be connected using a wiring "tree". Such a set of terminals is called a net. These trees are so-called Steiner trees as we are permitted to add new nodes - Steiner nodes - to reduce their total length. In general, many sets of terminals need to be connected using different, disjoint Steiner trees. A chip we are wiring has limited space for these trees and all of these must be packed onto the chip without interfering with each other.



The SEAWAY SECTION of the MATHEMATICAL ASSOCIATION OF AMERICA

Spring 2012 Meeting –Hamilton College
April 13-14

Speakers Biographies

1. David Bressoud

David Bressoud is DeWitt Wallace Professor of Mathematics at Macalester College and a former president of the Mathematical Association of America. He served in the Peace Corps, teaching math and science at the Clare Hall School in Antigua, West Indies before studying with Emil Grosswald at Temple University and then teaching at Penn State for 17 years. He chaired the Department of Mathematics and Computer Science at Macalester from 1995 until 2001. He has held visiting positions at the Institute for Advanced Study, the University of Wisconsin-Madison, the University of Minnesota, Université Louis Pasteur (Strasbourg, France), and the State College Area High School. David has received the MAA Distinguished Teaching Award (Allegheny Mountain Section), the MAA Beckenbach Book Award for *Proofs and Confirmations*, and has been a Pólya Lecturer for the MAA. He is a recipient of Macalester's Jefferson Award. He has published over fifty research articles in number theory, combinatorics, and special functions. His other books include *Factorization and Primality Testing*, *Second Year Calculus from Celestial Mechanics to Special Relativity*, *A Radical Approach to Real Analysis* (now in 2nd edition), *A Radical Approach to Lebesgue's Theory of Integration*, and, with Stan Wagon, *A Course in Computational Number Theory*.

2. Bill Dunham

William Dunham, who received his B.S. (1969) from the University of Pittsburgh and his M.S. (1970) and Ph.D.(1974) from Ohio State, is the Truman Koehler Professor of Mathematics at Muhlenberg College. Over the years, Dunham has directed NEH seminars on math history at Ohio State, and he has spoken on historical topics at the Smithsonian Institution, on NPR's "Talk of the Nation: Science Friday," on the BBC, and at the Swiss Embassy in Washington, DC. In 2008, as a Visiting Professor at Harvard, he taught a class on the mathematics of Leonhard Euler. He recently completed a DVD course, titled "Great Thinkers, Great Theorems," for The Teaching Company. In the 1990s, Dunham wrote three books – *Journey Through Genius* (Wiley, 1990), *The Mathematical Universe* (Wiley, 1994), and *Euler: The Master of Us All* (MAA, 1999) – and in the present century he has done two more: *The Calculus Gallery: Masterpieces from Newton to Lebesgue* (Princeton, 2005) and *The Genius of Euler: Reflections on His Life and Work* (MAA, 2007). His expository writing has been recognized by the MAA with the George Pólya Award in 1993, the Trevor Evans Award in 1997 and 2008, the Lester R. Ford Award in 2006, and the Beckenbach Prize in 2008. The Association of American Publishers designated *The Mathematical Universe* as the Best Mathematics Book of 1994.

3. Robin Lock

Robin H. Lock is the Jack and Sylvia Burry Professor of Statistics at St. Lawrence University where he has taught since 1983. He is a Fellow of the American Statistical Association, past Chair of the Joint MAA-ASA Committee on Teaching Statistics, and a member of the committee that developed GAISE (Guidelines for Assessment and Instruction in Statistics Education). He has won the national Mu Sigma Rho Statistics Education award and numerous awards for presentations on statistics education at national conferences. He is currently working, with his wife and their three statistician offspring, on an introductory statistics book featuring bootstrap and randomization methods. He gave his first mathematics talk while a student at SUNY Oneonta at a Spring MAA Section meeting more than 35 years ago.

4. Colonel Steve Horton

Colonel Steve Horton is a Professor of Operations Research and Deputy Department Head in the Department of Mathematical Sciences at the United States Military Academy. Steve holds a B.S. from West Point (1982) with a concentration in mathematics, the M.S.O.R. degree from Georgia Tech (1991), a M.S. in National Resource Strategy from the Industrial College of the Armed Forces (2001), and a Ph.D. in Operations Research from Georgia Tech (1997). His research interests include graph algorithms, computational complexity, and combinatorial optimization, but he is also beginning to think of himself as a Network Scientist. When he's not working, he likes to play: sports (golf, basketball, volleyball, etc.), electric guitar and saxophone (blues and classic rock), and duplicate bridge.

**SEAWAY SECTION
MATHEMATICAL ASSOCIATION
OF AMERICA**

**2012 SPRING MEETING
April 13-14
HAMILTON COLLEGE**

PROGRAM

Friday afternoon, Project NExT, Kirner Johnson 101

12-12:15 Welcome

12:15-1:15 Lunch

1:15 - 2:45 What do we want our majors to take away into their lives - 20 years from now?

2:45 - 3:00 Short break

3:00 - 4:30 Panel and Discussion: Programmatic Assessment- Are course goals being met?

4:30-5:00 Discussion of plans and ambitions for Seaway NExT/PFF and closing

Friday afternoon, Kirner Johnson 201

3:00 – 6:00 Meeting of the Executive Committee

Friday Evening, Kirner Johnson Upper Commons

6:00 – 7:00 Social Hour (cash bar)

7:00 – 8:30 Banquet, **McEwen Dining Hall**

8:30 – 9:30 **David Bressoud, Macalester College Kirner Johnson Bradford Auditorium**

Stories from the Development of Real Analysis

9:30-10:30 Math Jeopardy **Ryan Gantner, St. John Fisher College, Kirner Johnson Bradford Auditorium**

Saturday morning, Kirner Johnson Building, Bradford Auditorium

08:40 – 08:45 Welcome address by **Margaret Gentry**, Associate Dean of Faculty and Professor of Women's Studies

08:45 – 09:35 **Bill Dunham, Muhlenberg College**

Two (More) Morsels from Euler

09:45 – 10:35 **Robin Lock, St. Lawrence University**

Bootstrapping: Let Your Data Be Your Guide

10:35 – 11:00 Business Meeting

11:10 – 12:00 **Gehman Lecture: Col. Steve Horton, United States Military Academy**

Optimal Generation and Packing of Steiner Trees in a Rectilinear Grid

GROUP PHOTO

Lunch: 12-1:30, McEwen Dining Hall

Saturday afternoon, Kirner Johnson Building, 127

1:30 – 2:25 **Hatesh Radia, Corning Community College**

Workshop: Use an Echo to Improve Classroom Efficiency

2:30-2:55 **Yozo Mikata, Bechtel**

Deformation of CNT (Carbon Nanotube) by Molecular Mechanics

3:00-3:25 **Paul Seeburger, Monroe Community College**

Verifying Surface Intersection Curves Visually

3:30-3:55 **Elizabeth Wilcox, Colgate University**

I Fold: Origami as a Technique

Saturday afternoon, Kirner Johnson Building, 101

1:30 – 1:55 Sam Northshield, SUNY Plattsburgh

Ellipses and Results of Marden and Cardano

2:00- 2:25 Christopher Baltus, SUNY Oswego

Brook Taylor in Perspective: Perspective Drawing as a Central Collineation

2:30- 2:55 Joel Dreibelbis, Rochester Institute of Technology

Dynamics of Linear Maps

3:00-3:25 Robert Sulman, SUNY Oneonta

Orbits under polynomials modulo n that coincide with subgroups of the units of $\mathbb{Z}/n\mathbb{Z}$ modulo n

3:30- 3:55 Xiao Xiao, Utica College

The Frobenius Problem

Saturday afternoon, Kirner Johnson Building, 102

1:30-2:25 Keary Howard, SUNY Fredonia

Mathematics Cognition and Misconceptions in Introductory College Mathematics Courses

2:30 -2:55 Marshall Whittlesey, California State University San Marcos

Teaching spherical geometry to undergraduates

3:00-3:25 Gabriel Prajitura, SUNY Brockport

Approximating by averages

3:30-3:55 Victor Protsak, SUNY Oswego

On the shape of a dinner napkin

Saturday afternoon, Kirner Johnson Building, 201

1:30 –1:55 David Farnsworth, Rochester Institute of Technology

A Statistical Test for Mutual Exclusivity

2:00-2:25 Joseph Petrillo, Alfred University

The Alfred University Calculus Initiative

2:30-2:55 Olympia Nicodemi, Patrick Rault, SUNY Geneseo

Sharing our co-teaching experiences

3:00-3:25 Stan Seltzer, Ithaca College

The Top-Ten List

3:30-3:55 Chulmin Kim, Rochester Institute of Technology

Which works better to predict the 2012 NCAA bracket? RPI or BPI? Or Sagarin's?

Saturday afternoon, Kirner Johnson Building, 224, 203, 109

Student Talks: Organizer: David Brown, Ithaca College

The schedule can be found on the green sheet in your folder.

Registration, Meals, and Refreshments

Registration will take place in **Kirner Johnson Lower Commons** on Friday evening during the social hour from 6:00 to 7:00 and on Saturday morning from 8:00 until 11:00 in **Kirner Johnson Lower Commons**. Breakfast will be served in **Kirner Johnson Lower Commons** and lunch will be served in **McEwen Dining Hall**.

Accommodations

The Meeting has a block of rooms reserved at the Vernon Downs Casino Hotel in Vernon, NY, 4229 Stuhlman Road, which is approximately a 20-minute drive from campus. Conference rates are \$109.00 per standard double room. For reservations call 1-315-829-3400 – Request MAA.

Meeting Website

<http://conferences.hamilton.edu/maaseaway#>

REPORTS

1. Governor's Report

MAA Seaway Section Governor's Report
Board of Governors Meeting at JMM in Boston
January 3, 2012

1) President Report (Paul Zorn)

Thanks to Barbara Faires, Secretary of the MAA, for her excellent work on behalf of the Executive Committee and the entire MAA. This is Michael Pearson's first meeting as Executive Director of MAA. A public tribute to retired MAA Treasurer John Kenelly was passed by acclamation.

This is the 97th annual Joint Math Meetings. The 100th anniversary is in 2015. Planning has begun.

Did you know that the MAA has administered the Putnam exam since 1937? (It started out as an English competition between Harvard and Yale.) December 2011 was the 97th Putnam Exam. The Putnam family lives in Boston and has supported the running of the exam for 72 years.

The NSF may change the name of the NSF Division of Mathematical Sciences to NSF Division of Mathematical and Statistical Sciences. There has been much discussion on this issue. 90% of the 80 electronic responses are against the change.

Please visit the Art Exhibit near the Exhibit Hall. This occurs at each JMM. Let Barbara Faires know if you are interested in judging at the Art Exhibit.

2) Associate Secretary Report (Gerard Venema)

We have record attendance above 6100 at this JMM.

Brian Lane, Assistant Director of Meetings the last seven years, is leaving the MAA and that position is currently vacant. Meeting attendance has increased 50% during his time with the MAA.

30% of all MAA members attend either a national meeting or a section meeting each year.

3) Budget Comments (Rick Cleary, Associate Treasurer)

Thanks to MAA Staff for attending to the operating budget every day. Estimate of \$144000 deficit in 2011 operating budget is accurate. The MAA made unexpected arrangements for a web consultant and changed to TIAA-CREF investment management, still staying within the projected deficit.

Bentley University MBA students will intern at the MAA this spring and complete a business study of the MAA for “a very nice price”.

2012 dues increases:

- Regular membership increase \$5
- Student dues increase \$2
- Motion to keep student dues the same was defeated
- Dues have been the same for several years
- First time different paper and e-journal membership prices

4) Finance Report (Jim Daniel, Treasurer)

The MAA has hired TIAA-CREF to handle its investments. Previously they used Fidelity and Vanguard, where Tina Straley and Sharon Tryon did the actual buying and selling based on the recommendations of the Investment Committee. Now TIAA-CREF will do this based on the MAA Investment Committee Policy.

A compensation policy for MAA Officers is being discussed. Negotiations for cost of release time for officers must occur with the individual college or university each time a person is elected. This is difficult to budget for, since each school is different.

5) First Vice President Report (Francis Su)

A report was presented from the Association for Women in Science (AWIS) and the MAA on underrepresentation of women in publication and awards from most societies and journals in STEM fields.

Data from 1991 - 2009 on membership versus publication and award percentages was presented.

Recent PhDs earned by women: 28%

MAA membership (guessing based on name only): women 22%, men 68%, can't tell 10%

Women authored articles in MAA journals: 11%

Women named lecturers: 20%

Service awards to women: 25%

Teaching awards to women: 32%

Data is needed on submissions of articles and nominations of prizes.

Statement on Implicit Bias given to all selection committees and journal editors. Share this document.

Even the research committee on this project experienced implicit gender bias when taking the implicit association test at www.implicit.harvard.edu during their work. Try it yourself ·

Also view excellent webcasts about implicit bias at www.awis.org/awards/

Task Force recommends double masked (double blinded) review of articles and award nominations.

The CMJ already does use this process.

Some MAA journal editors are against this recommendation, and believe they are unbiased. In expository writing, the author may be hindered by not being able to identify himself or herself freely. Need time to discuss this recommendation. The motion was tabled, but will come up again at MathFest 2012. New Seaway Governor, take note!

6) Past President Report (David Bressoud)

a) The Second Century Campaign: The MAA will need to continue to fund Project NExT, the American Mathematical Competitions, and keep up the MAA buildings. An outline of the campaign will be brought to Board of Governors at MathFest 2012. The quiet phase (donations from large donors) begins this year.

b) Joint Statement about high school and college calculus courses from the MAA/NCTM Joint Committee on Mutual Concerns

There was a previous 1986 statement to this same effect, but the data from David's NSF Calculus Study indicates that a restatement is needed.

2012 Draft Position Statement developed by David Bressoud (MAA), Michael Boardman (AP Exams), Gail Burrill (past NCTM President) and others.

The MAA/NCTM Joint Committee on Mutual Concerns is particularly interested in the Governors' reactions to and thoughts on the three main recommendations in the MAA/NCTM Joint Position Statement:

1. Students who enroll in a calculus course in secondary school should have demonstrated mastery of algebra, geometry, trigonometry and coordinate geometry.
2. The calculus course offered in secondary school should be treated as a college-level course.
3. The college curriculum should acknowledge the ubiquity of calculus in secondary school and offer entering students courses that are fresh and engaging.

Expect an electronic vote of the Board of Governors on this statement in the spring, before MathFest

Some background: The MAA has an NSF grant to study calculus. Survey data are being studied now.

620,000 students complete a calculus course in high school. This equals 20% of all high school students in the US. The number of students taking Calculus I *in the fall semester* in all US 2 and 4 year colleges/universities is half that, near 325,000. Evidence shows that students are pushed into calculus and don't belong there. One out of six students who completed a calculus course in high school then took remedial math as their first course in college.

61% of all students taking Calculus I in college have completed a calculus course in high school.

2% of calculus I students in college (5000 - 6000 students) took AP Calculus AB as juniors, AP Calculus BC as seniors, then take Calculus I again in college. This makes no sense. The traditional Calculus I course in college needs to be adapted. We need alternatives in both college and high school. Overwhelmingly the high school calculus experience is Advanced Placement (AP). There are much smaller numbers of International Baccalaureate and dual enrollment calculus courses in high school.

MAA and NCTM need to work together on the transition from high school to college.

Anecdotal based discussion among the board members:

Dan Teague (North Carolina School for Mathematics and Science) questions David's background information that students do not consciously take calculus on purpose, they do it because their friends are taking it. He believes that students are being told they should take calculus (rather than statistics) to improve their college admissions. Is this true? (No data exists to study this.)

Physics programs require algebra and trigonometry. (Students are not getting it.)

Macalester College starts all math and science majors in a Discrete Math course with proofs, then they determine where to start in college calculus. David also suggests introduction to Linear Algebra in first year.

Note: 44 states have approved Common Core Standards for the high school curriculum. Completing the current Common Core Standards will lead a student to be ready to take College Algebra. Common Core Standards are being developed that will lead students to be ready to take Precalculus and then Calculus.

7) Membership (Bob Anastasio):

Currently 1100 graduate and 400 undergraduate student members. Actively promoting high school teacher membership, now have over 750.

Membership Committee (Ockle Johnson) is studying the impact of electronic Library access to full journal articles.

8) Strategic Planning Working Group on SIGMAAs, Final Report (Doug Ensley).

SIGMAAs reach new potential MAA members.

Committee on SIGMAAs made seven recommendations:

a) SIGMAA Mission Statement: SIGMAAs establish and support communities of colleagues who share a common interest through networking, professional development, ...

b) SIGMAA Financial Statement: A budget for each SIGMAA will be established based on membership. Can not be rolled over annually. SIGMAA dollars will only be used for SIGMAA activities.

SIGMAA dues given for one SIGMAA are available to all SIGMAAs. (Motion against this failed.)

c) Communication: Committee on SIGMAAs will regularly review relevant MAA Office Procedures (communication issues, staff changes).

d) Committee on SIGMAAs will review each SIGMAA every four years. Annual report, use of funds, benefit to members, benefit to mathematical community, procedures to develop sustainable leadership.

e) Create and support e-communities on MAA Online (both SIGMAAs and Sections). Consider e-only SIGMAA communities (no dues, no officers).

f) Define SIGMAA membership separately from MAA membership. (SIGMAA members are members in many organizations outside the MAA. Excellent outreach opportunity.)

g) SIGMAAs should report through the MAA structure rather than directly to the Executive Committee.

9) Michael Pearson (Executive Director Report)

The NSF reviewed the MAA, their questions were answered, NSF Mathematics Program Director Lee Zia wrote a strong letter on behalf of the MAA, relationship of MAA with NSF accountants is fully restored.

Open positions at MAA: Associate Executive Director, Chief of Staff, Associate Director for Meetings.

Jack Haynes, consultant for the MAA(physics, teachers, AIP, NSF Program Director) will assist in reviewing the business study done by the Bentley University students in Spring 2012, and help determine which positions are most needed for the MAA to function effectively and efficiently.

10) Sharon Tryon (MAA Chief Financial Officer)

\$164,000 currently given to the Greater MAA Fund. Average gift was \$200.

Last year \$110,000. Budgeted \$70,000. Thank you for your support.

11) Communications and Publications (Ivars Peterson)

a) Distinguished Lectures Fund: Grant was approved by NSA very quickly. May increase webcasting.

b) American Mathematical Monthly now has an orange cover and a Facebook page. Orange is the new editor Scott Chapman's college color – NC State. This is tradition for the Monthly/

c) Beginning in January 2012, table of contents alert will include a single pdf of the whole issue, which is searchable.

d) MAA Books now has a blog. Authors will post. Excerpts, supplementary material available.

12) Council on Prizes and Awards (Jerry Porter)

Change to Haimo Award criteria. New criteria allow Haimo Award to go to previous (not current)

Section Teaching Award Winners. This gives Sections more time to submit a Haimo application.

Respectfully submitted to Seaway Section Executive Committee,

Cheri Boyd

2. Treasurer's Report Gary Towsley April 3, 2012

Treasurer's Report – Seaway Section of the Mathematical Association of America

Fall 2011

Balance as of 9/29/2011	\$11,555.37
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Fall 2011 Meeting Costs

1. Lodging, Honoraria etc. for Saturday Speakers	\$443.21
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2. General Meeting Expenses	\$3,990.84
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Total	\$4434.05
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Fall Meeting Income (Registration etc.)	\$5,293.00
Fall Meeting Total	\$858.95
Balance after Fall Meeting 07/18/2011	\$12,414.32
Balance as of 04/03/2012	\$12,414.32

3. Minutes of the Business Meeting – Spring 2011 – Gary Raduns

Minutes—Seaway Section Business Meeting
 October 15, 2011
 St. Bonaventure, Olean, New York

The meeting began at approximately 10:40 with 18 members of the Section present. Hossein Shahmohamad, chair, expressed his thanks to past-chair Bob Rogers and the organizing committee. The next meeting of the Seaway Section will be at Hamilton College, April 13-14, 2012.

Governor Cheri Boyd highlighted several items from her written report from the Governors' Meeting at MathFest including:

Tina Straley has retired and will be succeeded by Michael Pearson as Executive Director of the Association. Past president David Bressoud has been succeeded by Paul Zorn.

The Association's cycle of Strategic Planning Working Groups will conclude with the final report on the SPWG on SIGMAAs in January 2012.

Encouraging nominations for the Section's Distinguished Teaching Award.

Treasurer Gary Towsley reported the balance prior to the Spring 2011 meeting was \$11508 and prior to this Fall meeting was \$11555. A more detailed report was published in the Seaway Current.

First Vice-Chair Charles Ragozzine reported that Bill Dunham, Robin Locke, and Steve Horton have agreed to speak at the April 2012 meeting at Hamilton College. The Fall 2012 meeting will be at Elmira College and Doug Ensley has agreed to speak there.

In Old Business,

Announce that the Seaway Section will be electing a new Governor in December. Candidates are Margaret Morrow and Gary Towsley.

Maruja Lander's term as Second Vice Chair has expired and this position is currently open.

The following resolution of the Educational Policies Committee was endorsed by the Executive Committee, amended by the EPC to address Elementary Statistics, and brought back to the membership for approval. The resolution was passed without dissent on voice vote.

The Business Meeting adjourned at 11:00 am.

Resolved: That the Seaway Section of the Mathematical Association of America opposes the awarding of college credit for courses taken in high school that are below the level of pre-calculus. In particular, high school students in New York State should not receive college credit for courses in the standard high school mathematics curriculum (Integrated Algebra, Geometry, Algebra 2/Trigonometry), nor for courses such as business math. In general, a high school course should be considered for dual enrollment college credit only if it has Algebra 2/Trigonometry as a prerequisite or if the course, like Elementary Statistics, is not part of the standard Regents mathematics curriculum and is commonly offered as a separate credit-bearing course by colleges.

Further, be it resolved that the Seaway Section affirms resolutions adopted by the Board of Governors of the Mathematical Association of America that university mathematics departments have oversight of dual enrollment courses in terms of syllabi, textbooks, examinations, and choice of instructors to the same degree that such oversight exists for mathematics courses taught at the university by adjunct faculty.

Respectfully submitted,
Gary Raduns Seaway Section Secretary

4. Minutes of the Executive Committee Meeting – Friday, April 1, 2011

MAA Seaway Section
Fall 2011
Executive Committee Meeting Minutes

Present: Hossein Shahmohamad, Charlie Ragozzine, Bob Rogers, Cheri Boyd, Jane Cushman, Ivars Peterson, John Maceli, Gary Raduns.

Absent: Gary Towsley.

Minutes of the Spring 2011 Executive Committee were approved.

Chair's Report.

Hossein will be staying in the Section and serve as chair and extends his thanks to Governor, Cheri Boyd, past chair Bob Rogers, Program Chair, Charlie Ragozzine, and Secretary Gary Raduns.

Governor's Report. Governor Cheri Boyd provided a written report. A few highlights of this report include:

- Extended discussion of free wireless access in hotels at national meetings.
- Changes in Board of Governor's to include council chairs and editors.
- Electronic membership has not increased much beyond initial response. (The executive committee discussed with the MAA Visitor the possibility of offering free e-membership for student presenters.)
- The MAA is promoting high school teacher memberships.
- Calculus survey by David Bressoud. Data in recent "Launchings" columns.
- Strategic Planning Work Group on SIGMAA will be reporting in January. This report will Concluded reports of the SPWGs; implementation of recommendations from the reports of other SPWGs has been ongoing.
- Tina Straley reflected on broader engagement of membership in SPWG, Governor's meeting have involved more discussion than previously, and more public discussion of budget.
- US teams are doing well in Math Olympiads.
- MAA Online will be revised soon. A consultant on website content and organization has been engaged and the Association faces technical challenges of merging parts originally developed independently or by different service providers. Consultant's final report on content due next week (Micheal Pearson has been spearheading).
- Michael Pearson will become Executive Director of MAA.
- MAA has taken over hosting WebWorks and the associated costs.
- Discussion of Distinguished Teaching Award. Recommendation include roll-over nominees from year to year and developing an electronic submission for or template,
- Next CUPM report due out 2014.

Secretary's Report.

Treasurer's Report was included in the Seaway Current.

First Vice Chair

- This weekend's program includes invited addresses by Ivars Peterson, Tom Pfaff, Dror Bar-Natan.
- Hamilton Meeting (April 2012)—Bill Dunham, Robin Lock, Col. Steve Horton (Westpoint).
- Venues for upcoming meetings:
 - Hamilton College, April 13-14, 2012.
 - Elmira College, October 19-20, 2012.
- Doug Ensley—had agreed to come to Elmira, but no longer a national visitor.

Treasurer:

- Written report. \$1363.63 shortfall on Spring meeting. Subvention made up difference.
- Discussion of Section supporting Section Officer to attend Section Officers Meeting at MathFest.

Old Business:

- Fundraising:
 - Book sale. There is no book sale at this meeting. The Section may distribute old display books. The format for book sales for the time being is to display copies and collect orders to be sent to the Association. Ivars Peterson reports that the MAA Book Store is moving to an Amazon powered bookstore and may include coupon codes in MAA alerts. They should be able to do something similar for section book sales. There are also changes forthcoming in the MAA E-Books program.

The Nominating committee reports Gary Towsley and Margaret Morrow are the Sections nominees for Governor..

Jane Cushman reports that the amendment to include Elementary Statistics in the EPC resolution on college credit for courses taken in high school is a friendly amendment to the EPC.

Nominations Committee: The Nominations Committee seeks nominees for Second Vice Chair (for 2 Year Colleges), 1st Vice Chair, and Chair Elect.

Respectfully submitted,

Gary L. Raduns, Jr.

Section Secretary

5. Minutes of the Extended Executive Committee Meeting – Friday, April 1, 2011

Extended Executive Committee:

October 14, 2011

Minutes of the April Extended Executive Committee were approved as distributed.

Committee Reports:

Executive Committee:

Repeated thanks. With one additional participant, went over outline of the preceding of Executive Committee quickly.

Program Committee:

No additional report.

Student Program Committee:

4-5 talks at this meeting. 3 posters. Discussion of perceptions of poster session versus a short talk (talk more prestige?, easier?), timing.

Randolph Committee:

Short report. They had difficulty finding nominees—send suggestions.

Gehman Lecture

Steve Horton will give the Gehman Lecture at the spring meeting.

Educational Policies Committee

(Jane Cushman, chair). Common Core Curriculum for mathematics gearing up for K-12. Pearson taking over testing. Teachers not happy. New York –appendices of how standards will be incorporated into NYS Curriculum. Steve Dunbar essay in recent FOCUS. No MAA Policy effort. Suggestion of talk in future meeting (Panel last spring). EPC will put together panel.

Distinguished Teaching Award Committee:

Need to get nominees---on-line template?

Jim Conklin willing to serve.

Nominations Committee:

Need nominees for 2nd vice chair, 1st vice chair and Chair-Elect.

John Maceli rotating off of the committee.

Seaway Current:

Info about meetings moving to web. Other things the Seaway Current ought to be doing...

Ebb and flow of “News from the Departments.”

Recognition of Sandy Segal—article for Current.

Seaway Next:

Jeff Johannes still chair? Preparing to pass off to Matt Koetz.

Public Information Officer:

Caroline Haddad—takes photos? Pieces to newspapers. Local colleges and local organizer probably ought to be making the local press releases. Contact local high schools.

Photos—who? Secretary? Webmaster? Public Information Officer?

Webmaster:

Lots of files yet to post.

Adjournment

The meeting adjourned at 6:00 pm.

News from the Departments

Utica College

Assistant Professor Xiao Xiao is our new math faculty. He has graduated from SUNY Binghamton.

SUNY Fredonia

Lan Cheng was tenured and promoted to Associate Professor in May, 2011. Her area is applied mathematics with an emphasis in financial mathematics.

Future Meetings

Fall 2012 – October 19-20 at Elmira College

Some Important Links

Seaway Section Website:

<http://people.rit.edu/maacway/>

Governance:

<http://people.rit.edu/maacway/governance.html>

The Seaway Current

The Seaway Current is published twice per year by the Seaway Section of the Mathematical Association of America for the benefit of its members. Its pages are open to all members of the MAA and, by invitation to others, for the exchange of information and opinion. Contributed announcements, articles, and editorials are welcome and should be sent to the editor.

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