



EPADEL

sections.maa.org/epadel



Student Chapter Newsletter

Change is Coming

This year the MAA launched a new membership category, departmental memberships. This new category allows for a department to have unlimited student members. To see the full benefits of this program, click [here](#). With the addition of this membership category, the MAA decided to end its student chapter program. However, we have heard way too much positive feedback about our newsletter. So we will NOT be retiring it. Instead we'd like to open it up to include all math clubs at EPaDel schools. I will be sending an email in April to all of our chapter school liaisons to ask for the name and contact information of your school's math club (if you have one). Be on the lookout for an email from me, ellen.panofsky@temple.edu.

Spring 2016 Meeting

EPaDel's spring meeting will be held at Muhlenberg College on April 2, 2016.

Deadline for pre-registration is March 18, 2016.

[Click here](#) to register online [Click here](#) to register by mail

MUHLENBERG

COLLEGE

Section Update
East Stroudsburg University

East Stroudsburg University's math club, Euclid's Elements, holds monthly meetings discussing and hearing about different topics of mathematics. Recent topics have included soapfilms and cables, taxicab geometry, optimizing without derivatives, and spirographs. In February, eleven club members went to NYC to visit the Museum of Mathematics. The group had a great time exploring and interacting with the many mathematical activities.



Opportunities For Students

Are you an undergraduate who has been working on a project? EPaDel has two great opportunities for you.

1. Give a student talk at our spring meeting. Talks should be approximately 10 minutes in length and can be expository or research oriented. Student speakers will receive free registration and a Certificate of Recognition from the MAA. Deadline for submission is March 18, 2016. [Click here](#) for more information.
 2. Submit a paper for the EPaDel Student Mathematical Papers Prize Competition. Submissions are due by June 15, 2016. [Click here](#) for more information. The winner of our 2015 Student Paper Competition has been selected, and will be announced at our Fall meeting.
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Section Update Kings College

Dr. Stacy Muir (pictured left) of the University of Scranton gave a talk entitled Connecting Minimal Surfaces and Planar Harmonic Mappings at math colloquium on November 10th. Surfaces are two-dimensional objects in a three-dimensional space. Just as a line segment gives the minimum length amongst all curves connecting two points in a plane, a minimal surface is a surface that locally minimizes surface area relative to a boundary. For example, dipping a wire frame into a soap solution forms a soap film that is a minimal surface. Minimal surfaces are studied from many different approaches in various areas of mathematics. In this talk, she used soap films, geometry, topics from Calculus I through III, complex variables, and graph theory to learn what a minimal surface is, what a planar harmonic mapping is.



Philadelphia Undergraduate
Mathematics
Conference Series
Saturday, March 19, 2016

Featuring:

- Plenary talk by William Dunham, Truman Koehler Professor Emeritus of Mathematics at Muhlenberg College and Research Associate in Mathematics at Bryn Mawr College
- Mini-course on coding theory by Kathryn Haymaker '07, Assistant Professor of Mathematics at Villanova University
- Poster session
- Undergraduate research presentations
- Professional development session

ALL students are encouraged to attend

Conference series organized by the Mathematics Departments at Bryn Mawr College, La Salle University and Temple University.

www.brynmawr.edu/math/2016_PHL_UGMATH

Section Update
La Salle University

In the fall semester, members of La Salle's student chapter attended the 2015 EPaDel Careers in Mathematics Conference at Temple University, held a board game night, and participated in the Putnam Exam. At the 2016 Joint Mathematics Meetings, sophomore Jackson Swindells presented a poster titled "Rainbow Connected Graphs and Their Coloring Graphs," and also delivered a joint talk on the same topic with his advisor, Dr. Janet Fierson. In addition, students have established a new relationship with a local school: La Salle math majors are volunteering to share their calculus knowledge with students at the Philadelphia High School for Girls. Members of the group also continue to provide enrichment activities on a weekly basis to students at St. Athanasius School, a local elementary school. The organization is looking forward to showcasing its cooking and baking skills when it hosts a Pi Day get-together and dinner for students of all majors. Members of the chapter will also be attending the Philadelphia Undergraduate Mathematics Conference Series at Bryn Mawr College.



Above: La Salle University students attend EPaDel's 2015 Careers Conference. This conference is held every other fall at an EPaDel section school.



Euler Society 2016 Meeting

July 25-26, 2016
Adelphi University
Garden City, New York

The Euler Society invites interested parties to submit proposals for its biannual meeting. Presentations should relate to the work of Leonhard Euler or 18th century science. You can read more about the conference at <http://tinyurl.com/Euler2016>. Those interested in attending or presenting at the conference should contact Dr. Robert Bradley (bradley@adelphi.edu).

The conference registration fee is \$120, payable by cash or check (made out to the Euler Society). Euler Society membership dues are \$25. Fees should be sent to the following address:

Dr. Erik R. Tou
School of IAS
University of Washington – Tacoma
1900 Commerce St.
Tacoma, WA 98402

Deadline for abstracts is June 3. Deadline for attendees is June 17. A reduced registration rate is available for those without institutional support. On-campus lodging is also available.

www.eulersociety.org

Chapter Update Millersville University

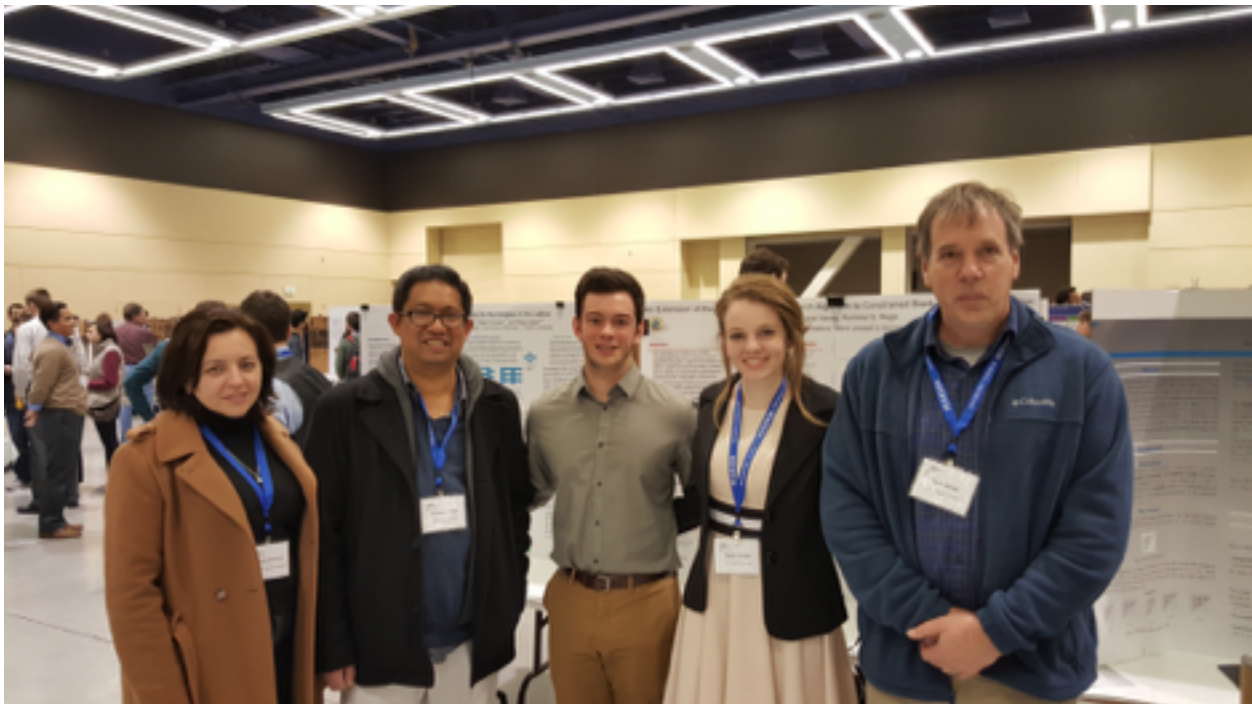
The mathematics department of Millersville University became a departmental member of the Mathematical Association of America in September, 2015, which has allowed almost 100 undergraduate and graduate students to be nominated and enrolled as student members of MAA. As a result, many of our students are now taking advantage of the many benefits that MAA has to offer. After one year of temporary status, Millersville's Math Club has regained its permanent status as a student organization in Fall, 2015. The purpose of this organization is to provide a social and intellectual environment to enable an interest and awareness of mathematics throughout the MU community. For the 4th consecutive Fall semester, Drs. Mingquan Zhan and Zhigang Han ran a problem solving seminar. Students who attended the seminar had enjoyed both the success and failure of solving challenging mathematical problems. This seminar is designed partially to prepare interested students for the Virginia Tech Regional Math Contest in October and the Putnam Mathematical Competition in December.

Section Update
St Joseph's University

Two of our students, Luigi Nunez and Kayla Varela, presented a poster entitled "An Extension of the Accelerated Random Search Algorithm to Constrained Black-Box Global Optimization" at the 2016 Joint Math Meetings in Seattle. Two other students, Elizabeth Bloom and Nick Mandarano (pictured right), gave a presentation entitled "Multiple Sclerosis, Latitude, and Sunlight: Exploring Associations



between MS and the Latitude Theory" at the Fall meeting of MAA-EPaDel at Delaware Valley University. Both presentations were mentored by Dr. Rommel Regis. Sarah Cooney and her co-authors presented a paper entitled "Current Security Threats and Prevention Measures Relating to Cloud Services, Hadoop Concurrent Processing, and Big Data" at the 2015 IEEE International Conference on Big Data that was held last October in Santa Clara, CA. Finally, Marisa Egan (double major in Math and Biology), Dr. Shantanu Bhatt (SJU Biology Dept) and their research group recently published a paper entitled "Lambda Red-Mediated Recombineering in the Attaching and Effacing Pathogen *Escherichia albertii*" in the international journal Biological Procedures Online.



St. Joes students Luigi Nunez (center) and Kayla Varela (4th from the left) pose with three faculty members at the 2016 JMM.