PRESENTATIONS *(* denotes joint work presented by student)*

1. Invited. "Approximating Coefficients of Beyli Maps," AMS Special Session on Graphs matrices and other related problems, Joint Math Meetings, San Antonio, TX, January 13, 2015.

2. Invited. "Dynamics and Control of an Invasive Species: The Case of the Rasberry Crazy Ant Colonies," Joint Annual Meeting of the Japanese Society for Mathematical Biology and the Society for Mathematical Biology, Osaka, Japan, July 31, 2014.

3. Invited. "Approximating Coefficients of Beyli Maps," Purdue University, West Lafayette, IN, July 14, 2014.

4. Invited. "Dynamics and Control of an Invasive Species: The Case of the Rasberry Crazy Ant Colonies," SIAM Annual Meeting, Chicago, IL, July 9, 2014.

5. Maria Markovic*, "Modeling the Cellular Dynamics of Multiple Sclerosis," Regional Undergraduate Mathematics Research Conference, Towson University, Towson, MD, April 12, 2014.

6. Maria Markovic*, "Modeling the Cellular Dynamics of Multiple Sclerosis," AMS Spring Sectional Meeting, University of Maryland, Baltimore County, March 29, 2014.

7. Invited, "Mentoring Undergraduates through Research in Mathematical Biology," AMS Spring Sectional Meeting, University of Maryland, Baltimore County, March 29, 2014.

8. Co-presented with D. L. Gochenaur, "Mathematics – for life, for love, for living," Joint Mathematics Meetings, Baltimore, MD. January 16, 2014.

9. Co-presented with Shippensburg Undergraduates Brenna DeShong* and Megan Parthemore*, "Orals Reviews: Improving Recruitment and Retention in STEM Majors," National Council of Teachers in Mathematics Regional Meeting, Baltimore, MD. October 18, 2013.

10. Seminar, "Introduction to Math Biology Using Differential Equations," Ursinus College, Collegeville, PA. October 17, 2013.

11. Invited, "Engaging Students in Undergraduate Research Through Mathematical Biology", International Symposium on Biomathematics, Ecology, Education and Research (BEER), Marymount University, Arlington, VA. October 12, 2013.

12. Seminar, "Introduction to Math Biology Using Differential Equations," Shippensburg University, April 4, 2013.

13. Seminar, "Introduction to Math Biology Using Differential Equations," Gettysburg College, Gettysburg, PA. March 29, 2013.

14. Poster presentation. Blake Burkett*, "Mathematical Approach to Cavendish Banana Exposure to Panama Disease." NIMBioS Undergraduate Student Conference at the

Interface of Biology and Mathematics, University of Tennesse at Knoxville, Nov. 17-18, 2012.

15. Invited. Blake Burkett*, "Mathematical Approach to Cavendish Banana Exposure to Panama Disease." SIAM Annual Meeting. Minneapolis, MN. July 10, 2012.

16. Invited. "Optimal Control of Cone Survival Using RdCVF Therapy," American Institute of Mathematical Sciences, 9th International Conference on Differential Equations, Dynamical Systems and Applications, Orlando, FL. July 2-5, 2012.

17. Invited Speaker ACM/MAA Lecture Series. "Applications of mathematics: Butterflies, Smog and more." Department of Mathematics, Mt. St. Mary's University, Maryland. March 20, 2012.

18. Presentation. "Applications of mathematics: Butterflies, Smog and more." Mathematics Department Seminar Series, Shippensburg University, Shippensburg, PA. Sept. 29, 2010.

19. Invited. ""Optimal Control of Cone Survival Using RdCVF Therapy," International Congress for Industrial and Applied Mathematics (ICIAM) 2011, Vancouver, BC, Canada. July 18-22, 2011.

20. Presentation. "An Optimal Control Mathematical Model for Photoreceptor Interactions." Joint Mathematics Meetings, New Orleans, LA. January 6-9, 2011.

21. Featured Speaker. "Mathematics, Calculators and Computing." Pennsylvania Council of Teachers of Mathematics Annual Meeting, Harrisburg, PA. November 11-12, 2010.

22. Presentation. "Derivatives, Numerical Differentiation and Differentiation Matrices." Seminar Series, Department of Mathematics, Shippensburg University, Shippensburg, PA, USA. Nov. 18, 2010.

23. Presentation. "Finite Element Method and TV-Minimization Problems for Image Denoising." Finite Element Circus, Division of Applied Mathematics, Brown University, Providence, RI, USA. May 1, 2010.

24. Seminar. "Optimization and Some Applications." Gettysburg College, Gettysburg, Pennsylvania, USA. March 4, 2010.

25. Presentation. "An Estimate of The Radius of an Attraction Ball for TV-Minimization Problems in Image Denoising. Joint Mathematics Meetings, San Francisco, CA, USA. January 16, 2010.

26. Seminar. "Optimization and Some Applications." Dickinson College, Carlisle, Pennsylvania, USA. October 27, 2009.

27. Minisymposium. "A homotopy method in regularization of total variation denoising problems, SIAM Annual Meeting 2009, Denver, Colorado, USA. July 9, 2009.

28. Seminar. “Optimization and Some Applications.” Department of Mathematics,Shippensburg University Shippensburg, Pennsylvania, USA. October 23, 2008.

29. Seminar. “Numerical Solutions to Differential Equations.” Department of Mathematics, State University of New York at Oneonta, New York, USA. March 5, 2008.

30. Seminar. “Numerical Solutions to Differential Equations.” Department of Mathematics, Shippensburg University, Shippensburg, Pennsylvania, USA. February 26, 2008.

31. Seminar. “Numerical Solutions to Differential Equations.” Department of Mathematics, Centennary College, Shreveport, Louisiana, USA. February 14, 2008.

32. Seminar. “Numerical Analysis: Two Optimization Applications.” Department of Mathematics, Ohio State University at Lima, Ohio, USA. January 30, 2008.

33. Dynamics Seminar. “A Homotopy Method in Regularization of Total Variation Denoising Problems.” Department of Applied Mathematics, University of Colorado at Boulder, Colorado USA. April 12, 2007.

34. Optimization Seminar Series. “A Homotopy Method in Regularization of Total Variation Denoising Problems.” Department of Mathematics, University of Colorado at Denver, Colorado USA. October 31, 2005.

35. Seminar. “A Homotopy Method in Regularization of Total Variation Denoising Problems.” Department of Mathematics, Colorado College, Colorado Springs, Colorado USA. October 21, 2005.

36. Invited. “A Homotopy Method in Regularization of Total Variation Denoising Problems.” Mathematical and Computational Sciences Division, National Institute of Standards and Technology, Gaithersburg, Maryland, USA. August 30, 2005.

37. Invited. “A Nonlinear Programming Approach to a Multi-Dimensional Scaling Problem.” The 2004 Meeting of the International Federation of Classification Societies, Illinois Institute of Technology, Chicago, Illinois, USA. July 17, 2004.

38. Colloquim. “Simulation of Twinned-Martensite as a PDE Optimization Problem.” Computational Sciences and Mathematics Research, Sandia National Laboratories, Livermore, California, USA. June 7, 2004.

39. Minisymposium. “Simulation of Twinned-Martensite as a PDE Optimization Problem.” Joint American Mathematical Society-Sociedad Matemática Mexicana International Meeting, Houston, Texas, USA. May 15, 2004.