Dr. Robert R. Rogers

Robert Rogers is a SUNY Distinguished Teaching Professor of Mathematics. He currently teaches in the Mathematical Sciences Department at the State University of New York at Fredonia. Dr. Rogers earned a B.S. in Mathematics with Certification for Secondary Education from Buffalo State College. He earned an M.S. in Mathematics from Syracuse University and his Ph.D. in Mathematics from SUNY Buffalo, specializing in Functional Analysis/ Operator Theory. His current interests are in history of mathematics and how it applies to teaching and learning mathematics, infusing more STEM topics in the teaching of mathematics, the communication of mathematical ideas, and analysis.

Dr. Rogers has taught a variety of mathematics and mathematics education courses at the undergraduate level. Of particular note is an appreciation of mathematics course he developed for the SUNY Fredonia general education program and an upper level history of mathematics course which is required of all pre-service mathematics teachers at the middle child and adolescent levels. He regularly teaches an upper level mathematics education literacy course where he has students research real world applications of mathematics while exploring the mathematics behind these applications. Dr. Rogers has also taught a number of graduate level mathematics education courses, where he tries to infuse mathematical content with pedagogy, helping teachers to relate advanced topics to more elementary concepts which teachers will encounter in the middle and high school classroom.

Dr. Rogers has published a number of articles on both mathematics and mathematics education. He has also co-authored *How We Got from There to Here: A Story of Real Analysis*, an introductory real analysis textbook, with Dr. Eugene Boman of the Pennsylvania State University – Harrisburg Campus. This book attempts to motivate the non-intuitive, rigorous definitions of analysis by imbedding these rigorous formulations into the story of their development. This book is available for free through the SUNY Open Textbook Program with an inexpensive hardcover version available through Lulu and Amazon. Currently, Dr. Boman and Dr. Rogers are writing a calculus textbook which will present the topics of Calculus in the order in which they developed historically. Their plan is to make this available for free through the SUNY Open Textbook Program as well.

Dr. Rogers is actively involved in STEM education initiatives and represents the Association of Mathematics Teachers of New York State (AMTNYS) in the NYS STEM Education Collaborative. He has given many talks on STEM topics and has served as a panelist at the NYS STEM Education Collaborative's Summer Institute. As Editor of the *NYS Mathematics Teachers' Journal*, he initiated the series "Where am I Ever Going to Use this Stuff?" which presents real world applications of mathematics, and has written a number of articles for this series.

Dr. Rogers has given numerous talks on mathematics and mathematics education. Of particular note, he was invited as a banquet speaker for the Annual AMTNYS Conference and for the Spring 2016 Mathematical Association of America – Seaway Section Meeting and was an invited speaker at another Seaway Section Conference. He was also the banquet speaker at the inaugural NEW^3 conference. He also does a number of outreach presentations in schools and represented mathematics at a STEM career day at the NYS Power Vista in Niagara Falls. He has been a guest teacher for gifted high school students at the Institute of Mathematics Education, Research, and Instructional Technology (MERIT) at SUNY Old Westbury. He also helps organize a middle school STEM camp through SUNY Fredonia's Project PRIME.

Dr. Rogers is a past president of AMTNYS, as well as a former chair and governor of the MAA-Seaway Section. He served as the program chair for the Seaway Section and was a local conference organizer. He is a recipient of the SUNY Fredonia President's Award for Excellence in Teaching and the MAA – Seaway Section's Clarence F. Stephens Distinguished Teaching Award. He is also a recipient of the MAA Distinguished Service Award – Seaway Section.