

Dr. Tom Kuntzleman

Dr. Tom Kuntzleman has been teaching science for over 20 years. He has earned a B.S. Ed. from Bloomsburg (PA) University, an M.S. in Chemistry from the University of North Carolina at Greensboro, and a Ph.D. from the University of Michigan. While Tom has taught science at every level from middle school through college, he has been teaching Chemistry at Spring Arbor University for the past 13 years.

Tom is heavily involved in informal science education. He has delivered over two hundred science demonstration shows on and off campus. He is the founder and director of the Cougar Science Camp, which regularly draws about one hundred K – 8th grade students to the campus of Spring Arbor University for a week of science experiments, demonstrations and fun. He also directs the annual Halloween in the Science Lab celebration.

Tom's research interests are varied, which reflects his deep appreciation of all things scientific. He publishes regularly in the *Journal of Chemical Education* on topics as varied as quantum mechanics, kinetics, electrochemistry, and informal science education. Tom has broad research interests, which reflects his profound curiosity in how the universe operates. He has published several articles in the *Journal of Chemical Education* that describe interesting, everyday applications of chemistry. Some of these articles include a description of the chemistry of light-sticks, how the cloud forms when dry ice is placed in water, and how stunt people use chemistry to safely light themselves on fire. In April 2016, the Alan Alda Center for Communicating Science at Stony Brook University in Stony Brook, New York announced Tom's production as one of three video entry finalists competing in the fifth annual Flame Challenge. In his video entry, Dr. Kuntzleman utilizes several devices and experiments to give a dynamic and visually interesting answer to this year's Flame Challenge question: What is sound?

Tom works with MicroLab, Inc. (Bozeman, MT) to research and design products for data acquisition equipment. He is very much impressed by MicroLAB's ability to open avenues of research for students and faculty at small undergraduate institutions.

In addition, His broad range of interest serves him well, as his teaching load at SAU involves teaching general, analytical, inorganic, and physical chemistry. Tom strives to engage his students in the subject matter, making chemistry come alive through chemical demonstrations as much as possible. He is very active in awakening public interest in science, presenting chemical demonstrations and activities to children several times a year on campus, at schools, and in churches.