

**Are you planning to attend the National Science Teachers Association's annual conference in Philadelphia, March 18 through March 21? If you are please join SCST members at 8:00 am to 12:00 on Saturday morning in the Commonwealth room in the Loews Hotel in an academic symposium on The Future of Quality Waters in the 21<sup>st</sup> Century.**

Over two-thirds of our planet is covered by water making it the most plentiful molecule on the earth's surface. Despite its abundance, however, only 3 milliliters out of every 100 liters is pure enough for humans to consume. The rest is contaminated by naturally occurring factors that are geological (minerals), climatological (storms) or biological (microbes) or human influences cause by the disposal of industrial (heavy metals), agricultural (pesticides), and residential (sewage) residues; together these factors contribute to water that cannot be consumed safely. Studies conducted around the globe indicate that over 8 million people die from consuming contaminated water every year. That's equivalent to 14,000 people every day.

Philadelphia is an ideal site to discuss the future of the earth's waters. The city was the site of the first successful water management and control facility in the nation. The Philadelphia Water Works is on the National Registry of Historic Places and is located not more than a half mile from the Philadelphia Convention Center. See the convention tours for details of how to visit the Water Works.

During the morning session four highly regarded experts in the future of the world's waters will come together to discuss the pressures of maintaining the quality of water today and the prediction for having those qualities exist in the future.

**Dan Wible** is a environmental engineer with CH2M Hill and Associates, one of the nation's most respected environmental consulting firms. He is best known and recognized as a LEED specialist in managing waste waters in natural environments. For the past ten years, Wible has specialized in the design of stormwater management practices with a focus on sustainable site design, hydrologic analysis and wastewater treatment reuse. The title of his talk at the symposium will be *Sustainable Design of Future Water Systems*, and will cover such topics a innovative storm water control and management, and hydrologic analysis of water systems in the next decades.

**Charles Duhigg**, investigative reporter for the *New York Times* and author of the award winning series, "Golden Opportunities" , which examines how businesses are seeking to profit from the soaring number of older Americans, in ways helpful and harmful. For that series, Duhigg received the George Polk Award, the Sidney Hillman Award, a Deadline Award, a Heywood Broun Award and additional recognition from the Gerald Loeb Awards, the Scripps Howard National Journalism Awards, the Society of American Business Editors and Writers and the Association of Health Care Journalists. This morning Duhigg will discuss another of his award winning series, this one entitled *Cleansing the Air at the Expense of the Nations Water: What the EPA Is Doing About It and Other Serious Water Pollution Problems.* The talk will focus on the disregard of some current public officials to enforcing provisions of the Safe Drinking Water Act, thus resulting in the failure of a large percentage of the nation's water treatment systems to meet the provisions of quality potable water.

Before joining the New York Times, Duhigg was a reporter with The Los Angeles Times. A native of New Mexico, he studied history at Yale and received a Masters in Business Administration from Harvard.

**Kent Crawford**, Water-Quality Specialist for the Pennsylvania Water Science Center of the U.S. Geological Survey, where he is responsible for technical oversight and quality control of the water-quality program. In that role, he is responsible for technical oversight and quality control of the water-quality program. He has over 30 years experience in a variety of water-quality projects including work on fish contaminant studies, ecological assessment of streams, and urban water-quality issues. His current research involves smallmouth bass mortality in the Susquehanna River and occurrence and distribution of emerging contaminants. The title of his presentation is the *Emerging Contaminants in Pennsylvania Waters*, a talk which will focus on the significance of pharmaceutical compounds, antibiotics, hormones, and wastewater compounds in the local waterways. Crawford's academic training is in aquatic ecology. He received his B.S. from North Carolina State University and both an M.S. and Ph.D. from The Pennsylvania State University

**Christopher Gorthy** is the preconstruction manager for the Mid-Atlantic region, and east coast sustainability manager for DPR Construction, a national general contractor that will build the new NSTA Headquarters Building. *The John Glenn Center for Science Education*, in Washington DC. With extensive expertise in green building, in particular cost benefit and life cycle analysis, Chris has been instrumental in the planning and execution of numerous LEED targeted and certified projects, including the use and recycling of potable water in sustainable, "green" construction.