

DISTINGUISHED INDUSTRIAL SCIENTIST AWARD

BARRY L. KULBACK

Trane Commercial Systems, Clarksville, Tennessee

Mr. Barry L. Kulback was the recipient of the Tennessee Academy of Science (TAS) Industrial Scientist Award. Mr. Kulback came forward to accept a plaque and recognition for his scientific contributions in the field of Information Technology during the November 17, 2006, TAS Annual Business Meeting held on the Austin Peay State University campus.

The TAS Industrial Scientist Award was developed to recognize a TAS member who has made significant contributions to industrial science in Tennessee. In this context, contribution is interpreted broadly to mean contribution directly to Commerce or Industry or the improvement of the quality of life in the State. Selection criteria are based on the quality and number of patents/publications in the past five years, special accomplishments as an industrial scientist, and letters of recommendation from professional colleagues.

Mr. Barry L. Kulback received his BS in Physics, with minors in Mathematics and Computer Science, from Austin Peay State University in 1979. He is a member of the American Society for Quality, and is very active in his community.

As a long-time employee of Trane Commercial Systems, a Division of American Standard, Mr. Kulback is a leader in the Information Technology field. He has held a variety of

positions including Programmer-Analyst, Project leader, and Project Team Manager. He has engaged in strategic company initiatives and the development of software applications to support them. Some of his initiatives were migrated to Just-In-Time Manufacturing, resulting in higher production efficiency and lower inventory burden. In-house developed Demand Based Management software was used by all three divisions of American Standard and received four patents.

Several years ago Mr. Kulback shifted his role to implement Six Sigma methodology to drive manufacturing process improvements and assure the company's product quality. His first year leading Quality and Productivity/Process Improvement projects resulted in over \$1.8 million annualized bottom line savings for the company. He then expanded his role to lead group-wide and global Six Sigma deployment initiatives in project tracking and training material development. He also conducted trainings for over 650 associates located in eleven domestic and global locations. Collectively, his initiatives have delivered over \$25 million in year-over-year bottom line savings. Currently, he is leading a global effort for establishing a new Global Information Technology Strategy for Trane Commercial Systems.

DISTINGUISHED SECONDARY SCHOOL SCIENCE TEACHER AWARD: 2006

JENNIFER DYE

Pope John Paul II High School, Hendersonville, Tennessee

Jennifer Dye was the recipient of the prestigious 2005 Distinguished Secondary School Science Teacher Award from the Tennessee Academy of Science (TAS). The award presentation, including a plaque and a \$500 check, was made on November 17, 2006 during the Academy's annual meeting held on the Austin Peay State University campus in Clarksville, Tennessee.

The Distinguished Secondary School Science Teacher Award was initiated in 1977 to recognize excellence in secondary science teaching, and is presented annually to one Tennessee science teacher who has made significant contributions to science teaching and learning. The evaluation criteria for the award are based on the candidate's contributions to the teaching profession, education record, involvement in professional organizations, special awards or special recognition, and letters of support.

Ms. Dye received her Bachelor of Science degree from Middle Tennessee State University with a major in biology and a minor in education. She has earned a Master of Science from Vanderbilt University where her research focused on molecular biology. Her professional career has centered on teaching Advanced Placement Biology and Physics at Pope John Paul II High School in Hendersonville, Tennessee. She is an active member of the Tennessee Science Teachers Association and the National Science Teachers Association, and actively participates in the activities of the Tennessee Junior Academy of Science (TJAS). Ms. Dye actively encourages her students to participate in the annual TJAS science competition and many of her students have had abstracts of their work selected for

publication in the *TJAS Handbook and Proceedings*. In addition, her students are involved in the Tennessee Junior Science and Humanities Symposiums and one of her students was selected to attend the National Symposium in 2005. Her students consistently participate in the Science Olympiad program for which she has had students advance to the state competition. In addition, she has participated in grant writing to fund innovative projects in her school and classroom, assisted in coordinating research for eighth grade students, and serves as head coach of the Science Olympiad. She also serves as the Science Department Co-Chair at Pope John Paul II High School.

Ms. Dye has assisted in writing curriculum for the Phase II Gateway notebook and Career and Technical notebook, and served as Gateway Presenter for Phase I, Phase II, High-Priority, and Career and Technical Institutes. She has made presentations at the Tennessee Science Teachers Conference on research methods used in high school classrooms and has presented papers at the National Association of Biology Teachers Conference and at the Molecular Biology Institutes at Tennessee State University.

Ms. Dye is a highly recognized teacher. She is the recipient of the prestigious Presidential Award of Excellence for Math and Science Teaching, Tandy Teacher of the Year, Tennessee Science Teachers Association Science Teacher of the year, National Association of Biology Teacher of the Year Award, Outstanding Biology Teacher of the Year Award, and the News Channel 5 Golden Apple Award.