

Student Prize Paper Award in Honor of T. Burke Hayes



The PES Student Prize Paper Award was established in 1988 by the CH2M HILL company to foster advancement in the science and practice of electric power engineering, and to recognize the professional contributions of Thomas Burke Hayes as founder of the company.

A basic tenet of the engineering profession is that engineering activities should make the world a better place. Mr. Hayes, who was an IEEE Fellow (1971) and the co-inventor of the FLOmatcher scheme for controlling the discharge of electrically driven pumps, worked towards that goal as an engineer, scholar and corporate citizen.

He graduated from Oregon State University (OSU) in 1938 and Massachusetts Institute of Technology in 1940 with undergraduate and graduate degrees in Electrical Engineering. After serving in the U.S. Navy as an instructor at the MIT Radar School, he started a consulting firm in Corvallis, Oregon. In 1971, it merged with Clair A. Hill & Associates of Redding, California, forming what is now known as CH2M HILL. Mr. Hayes led the firm's diversification into hydroelectric and electric power generation, transmission and distribution.

Mr. Hayes was a positivist who encouraged and bolstered the spirit and performance of others. He served as adjunct professor at the OSU School of Engineering in the 1950s and was a member of the Engineer's Council for Professional Development, which accredited university engineering curricula. As a member of the OSU foundation board, he strove to foster the growth of the university.

Recent Past Recipients:

1998 — Michael D. Lynch	2004 — Kathryn Young
1999 — Michael J. Hamilton	2005 — Eduardo Audiche
2000 — No Award	2006 — Timothy R. Roth
2001 — Henrik Jonsson	2007 — M. Burgos-Lopez
2002 — Isabel DesLauries	2008 — No Award
2003 — Nedzad Atic Amer Hasanovic	2009 — Charles Ashton Larkin

Student Prize Paper Award in Honor of T. Burke Hayes

Shane Robert Hutchinson

2010 Recipient

*"Current Harmonic Analysis of PHEV Battery
Chargers and their Effect on Transformer Rating"*

SHANE ROBERT HUTCHINSON was born September 17, 1985 in Springfield, Massachusetts, USA to Robert and Janet Hutchinson. He moved to Colorado in 1998 and stayed there for the remainder of grade school, and then proceeded on to high school in the same area. He received the Bachelor of Science in Engineering with an emphasis on Electrical Engineering from the Colorado School of Mines in Golden, Colorado in 2008. Soon thereafter, he



married his wife, Ashley Hutchinson, and moved to North Carolina to pursue a Master of Science degree in Electrical Engineering at the North Carolina State University under the direction of Dr. Mesut Baran. After graduating from NCSU, he began his career as a power systems consulting engineer at ABB in Raleigh, NC.

MESUT BARAN, Shane Hutchinson's advisor, received his BS in Electrical Engineering at Middle East Technical University in Ankara, Turkey. He received his MS in Electrical Engineering at Middle East Technical University in Ankara, Turkey. He then went on to get his PhD in Electrical Engineering at the University of California, Berkeley in 1988. He is a respected professor of power systems engineering at North Carolina State University and his research interests include Power Electronics and Power Systems (Including Electric Vehicle Systems, Power Systems). He received the IEEE PES/IAS Eastern NC Chapter Outstanding Engineer Award in 2001 and the IEEE PES recognition award for contribution to task force on Distribution Test Feeders in 2003.