

## IEEE PES Outstanding Young Engineer Award

This award recognizes outstanding contributions in the leadership of technical society activities including local and/or transactional PES and other technical societies, leadership in community and humanitarian activities, and evidence of technical competence through significant engineering achievements.

To be eligible for the Outstanding Young Engineer Award, an individual must be thirty-five years of age or under on January 1 of the year the award is presented, be a member of PES for at least one year, and have a minimum of a B.S. in Electrical Engineering from an accredited electrical engineering program or equivalent. He or she can be nominated by any PES member and must be endorsed by the chapter or technical committee of which the individual is a member.

The recipient receives a plaque and will designate a college or university with an accredited program in electrical engineering or equivalent to receive a \$2,000 scholarship for an electrical engineering undergraduate.

Recent Past Recipients:

*(Through 2007, the recipient received the Walter Fee Outstanding Young Engineer Award)*

- 1994 Lei Wang
- 1997 Mariesa L. Crow
- 1998 Kraig Joseph Olejniczak
- 1999 Miguel Velez-Reyes
- 2000 Christopher Wayne Hickman
- 2002 Jeffrey H. Nelson, Noel N. Schulz
- 2003 Richard Eric Brown
- 2004 Mark Laufenberg
- 2005 Efraín O'Neill-Carrillo
- 2006 Marcelino Madrigal, Ganesh Venayagamoorthy
- 2007 Karen Nan Miu Miller
- 2008 William (Bill) Rosehart
- 2009 Zhenyu (Henry) Huang
- 2010 Luiz A. Barroso

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# IEEE PES Outstanding Young Engineer Award

**Ted K.A. Brekken**

2011 Recipient

*For outstanding contributions in the leadership of technical society activities, leadership in community and humanitarian activities, and evidence of technical competence*

**Ted K.A. Brekken** is an Assistant Professor in Energy Systems at Oregon State University. He received his B.S., M.S., and Ph.D. from the University of Minnesota under Dr. Ned Mohan in 1999, 2002, and 2005. He studied electric vehicle motor design at Postech in Pohang, South Korea in 1999. He also studied wind turbine control at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway in 2004-2005 on a Fulbright scholarship.



His research interests include control, power electronics and electric drives; specifically digital control techniques applied to renewable energy systems. Current research activities include control of modeling of ocean wave energy converters, control of large-scale energy storage, and studying the impacts of large-scale integration of diverse renewable power sources. Dr. Brekken has led and participated in over \$21 M in research funding, with 40 conference papers published or accepted, and 10 journal papers published or accepted, with several more under revision.

He is co-director of the Wallace Energy Systems and Renewables Facility (WESRF), one of the highest-power university-based energy systems labs in the US. He is also a recipient of the NSF CAREER award, the OSU College of Engineering Engelbrecht Young Faculty Award in 2010, the OSU Electrical Engineering and Computer Science "Innovative Teaching Award" for 2009-2010, the OSU College of Engineering Loyd Carter Award for outstanding and inspirational teaching for 2008, the OSU IEEE Teacher of the Year for 2008, and the OSU Electrical Engineering and Computer Science Most Enthusiastic Professor for 2007-2008.

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