

IEEE PES Charles Concordia Power Systems Engineering Award



This IEEE PES Award recognizes outstanding individuals who have contributed to high-voltage electric power system engineering. The field encompasses operations, planning, control, modeling, and analysis of high-voltage power systems and includes the system's interaction with turbine-generators.

Electrification was the single most important engineering accomplishment in the 20th century, according to the National Academy of Engineering. A significant part of this accomplishment has been the development of high-voltage power systems throughout the world. These developments come from the work and creativity of dedicated engineers who have devoted their careers to the utilization and enhancement of high-voltage bulk power systems. The award is to recognize such dedicated individuals

The award is named for a man who contributed greatly to power system engineering during a long career (1926 until his death in 2003). His contributions to the technical advancements of Power System Dynamics during the 20th century are unequalled.

The award consists of a plaque and a \$5000 honorarium. The funds for the award are provided by the General Electric Company.

The award was established in 2002 and was presented for the first time in 2003.

Previous Recipients:

- 2003 Paul de Mello
- 2004 William F. Tinney
- 2005 Prabha S. Kundur
- 2005 John Undrill
- 2007 Richard Farmer

IEEE PES Charles Concordia Power Systems Engineering Award

Hermann W. Dommel

2011 Recipient

*For contribution to the electrical engineering profession worldwide
in the education, developing tools, and advanced application of
electromagnetic transients phenomena
in electric power system networks*

Hermann W. Dommel grew up in Germany, where he received his engineering degrees in Electrical Engineering from the Technical University of Munich. He worked there from 1959 to 1966 as a Research Associate in the High Voltage Institute.

During 1964-65 and from 1966 to 1973 he worked for Bonneville Power Administration in Portland, Oregon, U.S.A. on power system analysis software

for electromagnetic transients, which became the present “EMTP” through contributions from many others. He also worked on optimal power flow and transient stability programs.

Since 1973 he has been with the Department of Electrical Engineering at the University of British Columbia in Vancouver, BC, Canada, where he held the Industrial Research Chair sponsored by BC Hydro & Power Authority and the Natural Sciences and Engineering Research Council of Canada from 1995 to 2000. Since October 2000 he has been Professor Emeritus.

From 1980 to 1984, he served on the executive of the Vancouver Section IEEE. In 1979, he was elected Fellow of IEEE. In 1989 he received the “Outstanding Power Engineering Educator Award” from the IEEE Power Engineering Society and in 2007 the IEEE Canada Power Medal “for outstanding contributions to optimal power flow, transient stability and electromagnetic transient analysis in electric power systems”.

Dr. Dommel is the author or co-author of 75 papers in journals, and 93 papers in conference proceedings. He is a Registered Professional Engineer in BC, and a member of CIGRÉ.

