



The power of innovation earns global recognition

Research is the lifeblood of a technology-driven company like ABB, and we work hard to balance a culture of innovation with a sharp focus on core activities. It's not enough to identify promising new ideas; we have to be able to convert them into successful products, systems and services. ABB researchers are at the very center of this dynamic process.

MIT Technology Review Young Innovators 2004

Charlotte Skourup, a researcher at the ABB research center in Oslo, Norway, is studying human-machine interaction with particular emphasis on augmented reality and visual feedback. Her work is helping skilled human operators to more efficiently program robots for industrial painting and other manufacturing tasks. Thomas W. Dakin Award for Distinguished Technical Contributions 2004

Uno Gafvert, an ABB researcher from Sweden, was honored by the Institute of Electrical and Electronics Engineers (IEEE) for contributions ranging from basic research into understanding dielectric phenomena in solid and liquid dielectrics, to practical solutions for power apparatus technology and diagnostics.

Dyke Award for Distinguished Work in Discharges and Electrical Insulation in Vacuum 2004

Ekkehard Schade, a research consultant with the ABB research center in Switzerland, was honored at an international symposium in Yalta for his investigations into arc behavior, interruption processes and dielectric insulation. Dr. Schade's research and publications have contributed to the present-day understanding of the physics of high-current vacuum arcs.

Royal Swedish Society of Sciences Thuréus Award 2004

Peter Isberg, a researcher at the ABB research center in Sweden, won recognition for his research and development in the area of material physics and nanotechnology – the first time an industrial scientist has received this award.

ATP Journal Best Article Submitted 2004

Rainer Drath, an ABB researcher working in the corporate research center in Germany, wrote an article for the respected control theory and industry applications journal, atp (Automatisierungstechnische Praxis) about computer-aided exchange standards, which has been selected as the best article in the field of scientific methods and models submitted in 2004.

Hermes Award (Top 5), Hannover Fair 2004**AMA Technical Society Sensor Innovation Award 2003****Finalist Swiss Technology Awards 2003**

ABB engineers at the Swiss research laboratory developed a new technology for accurately measuring gas flows (for example, for domestic and industrial gas meters) based on a microelectronic sensor instead of using the conventional mechanical solution. The technology has since won several awards.

MIT Technology Review Young Innovators 2003

Christian Rehtanz, an expert in power systems technology in Switzerland, was recognized for his work to develop hardware and software that can reduce the likelihood of blackouts by tracking the flow of electricity across continent-wide grids several times per second, identifying disturbances and taking immediate action.

MIT Technology Review Young Innovators 2002

Alexander Fay, a researcher at the ABB research center in Germany, was recognized by for his work on applied knowledge-based systems, a branch of Artificial Intelligence, which focused on automation systems for the power generation and chemical industry.

Wall Street Journal European Innovation Gold Award 2002

ABB engineers at research laboratories in Germany, Switzerland and Norway won the overall technology innovation gold award for developing flexible and reliable wireless communication systems for industrial applications. ABB's proximity switch incorporates a communication module for power supply, signal transmission and man-machine communication, eliminating the need for power cables.

