

Microwave Application Award:

This award recognizes an individual or team for outstanding application of microwave theory and techniques. This year's recipient is **Zoltan J. Cendes**.

Zoltan J. Cendes

"In recognition of a distinguished record of service to the MTT Society and the microwave profession over a sustained period of time"



Zoltan J. Cendes, Ph.D. founded Ansoft Corp. in 1984 and served as its Chairman and Chief Technology Officer until July 2008 when Ansoft was acquired by ANSYS Inc. He served as President, Chief Technology Officer and General Manager of Ansoft LLC until retirement on December 31, 2009. Dr. Cendes' original research made many of Ansoft's products possible, including HFSS™, MaxwellR and Spicelink™.

He has made significant contributions in the area of finite element modeling of electromagnetic devices. In particular, he solved the problem of spurious modes that prior to his work had made the application of finite element methods in electrical engineering impractical. He, along with his coworkers, developed new types of finite elements called edge elements that eliminate the problem of spurious modes. He also introduced the Delaunay mesh generation algorithm and adaptive mesh refinement procedures to finite element analysis, and the transfinite element method and model order reduction procedures to high frequency electromagnetics.

Prior to forming Ansoft in 1984, Cendes served six years with the General Electric Corp., first in the Large Steam Turbine-Generator Division and then in the Corporate Research and Development Center, where he was responsible for developing finite element computer codes. In 1980, he was appointed Associate Professor of Electrical Engineering at McGill University, Montreal, Canada. In 1982, he joined the faculty of Electrical and Computer Engineering at Carnegie Mellon University, Pittsburgh, PA, where he was Professor until 1996. Cendes received his MS and PhD degrees in Electrical Engineering from McGill University. Dr. Cendes is a Life Fellow of the IEEE, has served on the Editorial Board of IEEE Spectrum, on the International Steering Committee of the COMPUMAG Conference and on the Steering Committee of the International Workshop on Finite Elements in Microwave Engineering. Dr. Cendes has served as a Distinguished Lecturer of the IEEE Antennas and Propagation Society (AP-S). He has lectured throughout North America, Europe and Asia on the topic of electromagnetics and finite element analysis and has published over 200 papers. Dr. Cendes received the IEEE AP-S Distinguished Achievement Award in 2008.