

## SHORT COURSE PROPOSAL TO EuCAP 2014, The Hague, THE NETHERLANDS

### Course title: **Asymptotic High Frequency Methods for Solving EM Wave Problems-Focus on Ray Methods**



**Prabhakar Pathak** received his Ph.D degree from the Ohio State Univ (OSU), Columbus, Ohio, USA, in 1973. Currently he is a Professor Emeritus at OSU. He is regarded as a co-contributor to the development of the uniform geometrical theory of diffraction (UTD). Presently, his work is centered on developing : UTD ray solutions for antennas near or embedded in, thin material/metamaterial coated metallic surfaces; fast hybrid asymptotic/numerical methods for the analysis/design of very large conformal phased array antennas; and, Beam summation methods for efficient analysis of a class of large modern antenna and scattering problems. He served as an IEEE (Institute of Electrical and Electronics Engineers) Distinguished Lecturer from 1991 through 1993. He received the 1996 Schelkunoff best paper award from the IEEE Transactions on Antennas and Propagation, and the ISAP 2009 conference best paper award. He received the George Sinclair award in 1996 for his research contributions to the OSU ElectroScience Laboratory, and the IEEE Third Millennium Medal from the Antennas and Propagation Society in 2000. He was presented the 2013 Distinguished Achievement Award from IEEE AP-S. He is an IEEE Life Fellow, and is a member of US Commission B of the International Union of Radio Science (URSI).