



IEEE Okanagan Subsection Presents

Prof. Dr.-Ing. Peter Ott
Heilbronn University (*Hochschule Heilbronn*), Germany

Trends for Head-Up Displays in Automobiles

Time & Date: 5pm-6pm, Thursday April 4, 2013

Location: EME 1153, UBC Okanagan campus



Talk Abstract:

Head-up displays in automobiles offer a higher level of safety, driving comfort and also passion for engineering and an enhancement of prestige. The talk explains the active principle of head-up displays in automobiles from an optical engineering point of view, the challenges that have been solved and those that still remain. The recent development of contact analogue HuD's is discussed, where the displayed content directly correlates with the environment. An outlook on depth-fused 3D head-up displays is given. Such displays project multiple images at different virtual image distances and thus are able to improve 3D perception.

Speaker Biography:

Peter Ott studied electrical engineering at University of Stuttgart, Germany, and one year in Paris. His PhD was on "Image recognition with associative memories and their massive parallel optoelectronic realization". In 1996 he joined the central research department of Carl Zeiss and worked on semiconductor optical inspection and optical metrology. Four years later he was appointed full professor at Heilbronn University. He conducted several applied research projects in the field of optical metrology and optical design, including a project on head-up displays for BMW. Prof. Ott is member of the managing committee of the School of Mechanics and Electronics and responsible for its master program.

Pizza and drinks will be provided after the talk. For further information please contact:
Dr. Kenneth Chau (email: kenneth.chau@ubc.ca)