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SEMINAR

on

Reliability Engineering and Maintenance in Finland Industry

Speaker: Professor Seppo Virtanen, Tampere University of Technology, Finland

Date: 28 April 2005 (Thursday)

Time: 15:00 p.m. to 16:30 p.m.

Venue: EA-06-02, Faculty of Engineering, NUS

Abstract Since 1996 eleven Finnish companies have participated in the research project which objective was to develop computer supported probabilistic based method for the development of the equipment's and systems' reliability and safety. The ideal design approach is one in which those problem areas, which delay production and weaken equipments' and systems' reliability, availability and safety, are discovered and solved during the design stage.

The participating companies are producers and users in metal, energy, process and electronics industries. Their products and systems have to correspond to high safety and reliability demands. The research project was carried out by Tampere University of Technology and it was completed by the end of February 2005. The research work was divided in three parts: modelling and analysis of failure logic, specification and allocation of reliability and availability requirements, simulation and calculation of reliability performance and maintenance costs. The aim of the seminar is to demonstrate the design methods developed in the research project and tested in numerous Finnish industry companies.

Biography: Seppo Virtanen received his B.Sc., M.Sc. and PhD. degrees from Helsinki University of Technology, Finland. He is currently a Professor in the Machine Design and Operation Laboratory at the Tampere University of Technology. His research and teaching interest includes reliability and maintainability engineering and risk management within a product and system design process. Professor Virtanen has over 15 year's industry experience in the field of reliability engineering and maintenance, which includes three years in energy, pulp and paper industry in USA and two years offshore industry in Norway.

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