



LUNDS TEKNISKA HÖGSKOLA

Lunds universitet

Industriell Elektroteknik och Automation (IEA)

Olof Samuelsson, Docent

Universitetslektor

Power System Protection Event in Lund 25-26 February

More information including campus map can be found at www.iea.lth.se/seminars/

Monday 25 February

Room M:E

13.00 *Dr. Olof Samuelsson* Introduction
Prof. Peter Crossley Network protection in the presence of DG
Prof. Matti Lehtonen Earth faults in unearthed and compensated neutral medium voltage networks

Coffee

Prof. Sture Lindahl The hurricane Gudrun and the resulting actions
Anna Guldbrand Earth fault protection of cable networks with distributed compensation

Francesco Sullà Fault Analysis of island-operated distribution network with induction generation

Dr. Magnus Akeke DLAB – a laboratory model of an extensive cable network

Dr. Olof Samuelsson Concluding remarks

17.00 End of seminar

19.00 Dinner in downtown Lund

Tuesday 26 February

Room M:B

10.15 Ph.D. defense: *Zoran Gajic* presents his dissertation “Differential Protection of Arbitrary Three-Phase Transformers” The thesis is published at <http://www.lu.se/lund-university/research/dissertations-and-publications>

Faculty opponent: *Prof. Peter Crossley*, Manchester University

Examination committee:

Prof. Matti Lehtonen, Helsinki Technical University

Dr. Mattias Jonsson, National Grid UK

Mr. Lars Wallin, Svenska Kraftnät

Assoc. Prof. Arne Hejde Nielsen, Danish Technical University

Lunch

A Ph.D. defense has no formal time limit, but normally lasts for about two hours.

About the speakers

Peter Crossley is a professor of electrical engineering at the University of Manchester. He has been involved in the design and application of protection systems for many years, with GEC, ALSTOM, Queen's University Belfast, and the University of Manchester. He has published numerous technical papers on power system protection, embedded generation and condition monitoring.

Matti Lehtonen is professor in IT applications in power systems at Helsinki University of Technology since 1999. Before that he was with VTT Energy in Espoo. His main activities include earth fault problems and harmonic related issues and applications of information technology in distribution automation and distribution energy management.

Sture Lindahl is adjunct professor at Lund University since 2000. Since 2005 he is also founder, owner and chairman of the board of the consulting company Gothia Power AB and works there as a consultant. Sture Lindahl has also been with Vattenfall, Sydkraft AB, ABB Relays AB, ABB Generation, ALSTOM Power and ABB Automation Technology Products. His main interests are protection and power system analysis and control.

Anna Guldbrand is a Ph.D. student at Lund University since 2006. Her studies focus on system earthing and distribution networks with extensive amounts of underground cable.

Francesco Sulla is a Ph.D. student at Lund University since 2006. He is working with protection of distribution systems in island operation.

Magnus Akke is an associate professor at Lund University since 2007. Previously he was with ABB Technology Products AB and Sydkraft AB.

Olof Samuelsson is an associate professor at Lund University since 2004. He now leads the power system research group at the Department of industrial electrical engineering and automation. The group is active in earthing and protection of distribution networks, island operation of distribution networks, power system restoration and vulnerability analysis of interdependent infrastructures.