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Lappeenranta University of Technology

## LUT CST workshop

Research and innovations for mining and metallurgy

23-24 August 2011

The Centre for Separation Technology (CST) of Lappeenranta University of Technology (LUT) has tradition of workshops since 1998.

**The subject of 2011 is**

### Research and innovations for mining and metallurgy

Mining is topical to Finland; we in the middle of national mining boom and Finnish equipment and process manufacturers are known worldwide.

Our workshop 2011 links together novel research results and interesting speeches from industry. One goal of our event is networking between academic world and industry.

This year workshop includes company visit to Nordkalk quarry facilities at Lappeenranta.

The detailed workshop programme is shown on the next page.

The venue of the workshop is the Student Union Building at Lappeenranta University of Technology.

Registration before 12<sup>th</sup> August by e-mail: [vesa.karvonen@lut.fi](mailto:vesa.karvonen@lut.fi)

Workshop fee 300 € includes programme, excursion and meals.

## Programme, Tuesday 23<sup>rd</sup> August

9:30	Registration & coffee
10:30	Workshop opening, Vice Rector Veli-Matti Virolainen, LUT
10:40	LUT CST. Creating Solutions Together, Director of LUT CST Vesa Karvonen
11:00	Green Mining programme, Kari Keskinen, Tekes
11:30	Pulsed corona discharge - the break-through technology in water treatment Dr. Sergei Preis, LUT
12:00	Lunch
13:00	Modelling of metallurgical leaching processes, Dr. Arto Laari, LUT
13:30	Development of leaching process, M.Sc Jouni Pakarinen, LUT
14:00	Finnish Metal Industry; future challenges, Mika Nykänen, Managing Director of The Association of Finnish Steel and Metal Producers
14:30	Coffee break
14:50	From Innovation to Practice - Calcium Solvent Extraction at Norilsk Nickel Harjavalta Oy, Director Esa Lindell, NNH
15:20	Closure of day
16:00	Company visit (bus); Nordkalk quarry facilities in Lappeenranta hosted by Director Eelis Eskelinen
20:00	Evening programme / Dinner

## Programme, Wednesday 24<sup>th</sup> August

9:00	Coffee
9:30	Pastasakeutusprosessin vaatimukset pumppaukselle CEO Heikki Hyttinen, Larox Flowsys Oy
10:00	Recovery of indium from LCD screens, M.Sc. Sami Virolainen, LUT
10:30	Maintaining performance of ceramic filter media in cake filtration, Bjarne Ekberg, Outotec Oyj
11:00	Coffee break
11:20	Membrane separation in mining and metallurgic industry- possibilities and challenges, Professor Mika Mänttari, LUT
11:50	Dewatering of Red Mud, Professor Antti Häkkinen, LUT
12:20	Prof. Peuker, Freiburg University
12:50	Closure of the workshop
13:00	Lunch

**Welcome to CST workshop 2011!**

