

REGISTRATION FEES:

CST Workshop (Aug. 8 and 9)	
standard	450 €
student	100 €
CST member	405 €

If you want to attend also the Nordic Filtration Symposium the registration fees are as follows:

CST Workshop (Aug. 8 and 9) + Nordic Filtration (Aug. 10)	
standard	600 €
student	200 €
CST member	540 €

Nordic Filtration (Aug. 10)	
standard	250 €
student	100 €
CST member	225 €
NoFS member	25 €Discount

CST Workshop (Aug. 9) + Nordic Filtration (Aug. 10)	
standard	500 €
CST member	450 €

The fees include lecture material, lunches and coffees, and social programme (Dinner at Casino, cruise on Lake Saimaa and Garden Party at Larox). VAT (22%) is included to given prices. Fill the registration form on web site: www2.lut.fi/cst/workshop2005. Registration before June 30.

PAYMENT OF THE REGISTRATION FEE: Before July 31, 2005. Please use the invoice form that you will receive after registration. Cancellation fee -25%.

ACCOMMODATION: Rooms have been reserved at

	Rate
Sokos Hotel Lappee	82 €(single), 106 €(double)
Scandic Hotel Patria	88 €(single), 112 €(double)

Prices include breakfast. Both hotels are in city centre. Please book your room at tel +358-5-678 6504/ fax +358-5-678 6545 (Lappee) or tel. +358-5-677 5544/fax +358-5-451 2441 (Patria) and remember to mention "CST". Book your room before July 8.

FOR FURTHER INFORMATION: Please, contact Eeva-Liisa Peuha, tel. +358-5-621 6104, fax +358-5-621 2199, email cst@lut.fi. See also the CST home page on www.lut.fi/CST

 CST Workshop in

Separation Technologies for Mining and Metallurgy



August 8-9, 2005

Student Union Building
Lappeenranta University of Technology
Lappeenranta, Finland

followed by
9th Nordic Filtration Symposium
Lappeenranta August 10, 2005

Programme

Monday, August 8, 2005

8.00 Registration
9.00 Opening of the Workshop (Prof. Erkki Paatero)

Keynote lecture Joni Hautojärvi, Dr., OMG Kokkola Chemicals Oy, Finland
New needs for separation technologies

Session 1, Solvent Extraction (Chair: Bror Nyman, Lic.Tech., Outokumpu Research Oy)

Eero Ekman, M.Sc., Outokumpu Research Oy, Finland
Developments in solvent extraction technology

Timo Kankaanpää, M.Sc., Helsinki University of Technology
CFD modelling as a tool for the design of settlers

Don Ibana, Professor, WASM, Curtin University of Technology, Australia
Separation of Metals by Electrostatically Assisted Solvent Extraction

J.N.Chubb, PhD, John Chubb Instrumentation, U.K.
Electrostatic safety during solvent extraction operations

Round table discussion: *What is the future of solvent extraction in mining and metallurgy?*

Session 2, Ion Exchange and Adsorption (Chair: Prof. Juha Kallas)

Arup K. SenGupta, Professor, Lehigh University, Bethlehem, PA, USA
Removal of trace metals using chelating exchangers with nitrogen donor atoms

Bernard P. Wijnberg, Dr., Septor Technologies, The Netherlands
Use of continuous ion-exchange in hydrometallurgy

Risto Harjula, PhD, Helsinki University, Finland
New developments of inorganic metal oxide adsorbents

Heikki Leinonen, PhD, Ionhawk Oy, Finland
Recycling of metal oxides

Tuomo Sainio, Lappeenranta University of Technology, Finland
Column models for polymeric adsorbents

Evening: Dinner at the Casino followed by a cruise on Lake Saimaa

Tuesday, August 9, 2005

Session 3, Electrochemical and Flotation Methods (Chair: Prof. Erkki Paatero)

9.00 Olof Forsén Professor, Helsinki University of Technology, Finland
Application of electrochemical separation methods

Olli Hyvärinen, Docent., Outokumpu Research Oy
HydroCopper – old principles in a new way

Jouko Kallioinen, Senior Research Scientist, Geological Survey of Finland
New needs for mineral flotation

Session 4, Membrane Filtration (Chair: Prof. Marianne Nyström)

Jukka Tanninen, Dr., Lappeenranta University of Technology, Finland
Membranes in acid recovery from metallurgical streams

M. Dohnal, Professor, Hi Tech Centre, Technical University of Brno, Czech Republic
Inorganic polymer membranes and their potential industrial applications

Samantha Platt, PhD, Lappeenranta University of Technology, Finland
Solvent separation with membranes

Ralf Scheibner, M.Sc., GEA Filtration, Germany
Zero discharge in mining and metallurgy by combining membrane filtration, evaporation and crystallization

Round table discussion: *What is the future of membranes?*

Session 5, Solid-Liquid Separation (Chair: Prof. Lars Nyström)

Ian Townsend, Manager, Larox Corp., UK
Practical considerations in the selection of filters for process metallurgy

Marjatta Louhi-Kultanen, Docent, Lappeenranta University of Technology
Filtration of Precipitated Crystals

Erkki Paatero, Professor, Lappeenranta University of Technology, Finland
Combination of ion-exchange and filtration

16.00 Closing of the Workshop

Evening programme: Garden Party at LAROX

-Rights for changes in the programme reserved-