

## JOINT SEMINAR

### Min-North (Development, Evaluation and Optimization of Measures to Reduce the Impact on the Environment from Mining Activities in Northern Regions)

### RESEM (REmote SEnsing supporting surveillance and operation of Mines)

#### Preliminary program

**Place: University of Oulu, Lecture room IT115, Paavo Havaksen tie 3**

**Time: On Thursday 21.9.2017, from 8:30 to 15:30.**

8.30 *Registration and morning coffee*

9.00 **Welcome words**, Dr. Elisangela Heiderscheidt, University of Oulu (UO)

9.05 **Keynote 1: Environmental impacts of mining activities and methods to reduce such impacts**, Prof. Bjørn Kløve, UO

9.20 **Min-North project presentation**, Associate prof. Lena Alakangas, Luleå University of Technology

9.30 **RESEM project presentation**, Dr. Pekka Rossi, UO

9.40 **Keynote 2: Managing the environmental impacts of mining - The role of environmental authorities, research institutions and mining companies**, Chief environ. Specialist Soile Backnäs, Kainuu ELY Centre

#### Min-North project presentations

9.55 **Waste rock lysimeters and potential dry cover structures**, MSc, geologist Teemu Karlsson, Geological Survey of Finland

10.15 **Strontium isotopes: Tool for predicting the geochemical stability of mine wastes**, PhD candidate Musah Salifu, Luleå University of Technology

10.35 *Break: coffee, suggestion and opinion posters*

10.50 **Removal of Metals from Mining Wastewaters by Utilization of Natural and Modified Peat as Sorbent Materials**, PhD candidate Harshita Gogoi, UO

11.00 **Challenges using treatment peatlands in cold climate region**, Dr. Anna-Kaisa Ronkanen, UO

11.10 **Temperature effect on the leaching of contaminants from tailings deposition site**, Associate prof. Jinmei Lu, The Arctic University of Norway

#### RESEM project presentations

11.30 **Remote sensing with satellites: Using satellite data (InSAR) to monitor surface movement**, Dr. Tom Rune Lauknes, Norut / Prof. Sven Knutsson, Luleå University of Technology

12.00 *Lunch break*

13.00 **Remote sensing supported surveillance of tailings dams and impoundments: case Laiva mine**, PhD candidate Anssi Rauhala, UO

13.30 **Environmental monitoring with remote sensing: thermal imagery**, Dr. Pekka Rossi UO

14.00 *Coffee break, suggestion and opinion posters*

14.20 **Keynote 3:** Executive Officer Pekka Suomela, Finnish Mining Association

14.35 **Keynote 4: How the participation in research projects can help the company fulfill its environmental responsibilities**, Environ. Man. Ulla Syrjälä, Boliden Kevitsa Mining Oy

14.50 **Panel discussion**, Project managers and keynotes facilitate by Dr. Elisangela Heiderscheidt

15.20 **Closing words**, Prof. Sven Knutsson, Luleå University of Technology

**Please register at the latest by 12.9.2017 via link: <https://www.webropolsurveys.com/S/522777715F4B4570.par>**

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