

MIICS 2012

Seminar Programme - Updated 13. March

start Wednesday, March 14th

7:30 Bus transportation to seminar venue (Mikpoli auditorium) from Hotel Cumulus, 07:45 from Hotel Vaakuna

8:00 **Registration**

OPENING OF THE SEMINAR (08:30 - 08:55)

8:30 Prof. David Cameron, Lappeenranta University of Technology

8:35 Soile Kuitunen, Development Director, City of Mikkeli

8:40 Heikki Saastamoinen, Rector, Mikkeli University of Applied Sciences

8:45 Juha Kauppinen, Miktech Ltd.

8:50 Jari Varjotie, CEO, Savo-Solar Ltd.

SESSION 1 Opening lecture (09:00 - 09:40)

9:00 Friction and wear control by coatings

Chairman: David Cameron

Dr. Kenneth Holmberg, VTT

Finland

9:40 *Coffee*

SESSION 2 Solutions in machine building (10:10 - 11:50)

10:10 2.1 Measurement of Oil-film Pressure and Strain Distribution in Engines and Machine Element Components using Thin-film Sensor

Chairman: Martti Kempinen

Prof. Yuji Mihara, Tokyo City University

Japan

10:35 2.2 Fimecc's Demanding applications call for robust coatings

Dr. Markku Heino, Spinverse Consulting Ltd.

Finland

11:00 2.3 FICANet – Marketplace for Coating and Anti-corrosion Know-how

Rainer Jakobsson, Innopark Ltd.

Finland

11:25 2.5 Coatings with carbon nano material

Prof. Jari Koskinen, Aalto University

Finland

11:50 *Lunch*

12:35 Company presentation: Picosun

12:50 Company presentation: Roth & Rau

SESSION 3 Coatings on flexible substrates (13:05 - 14:45)

13:05 3.1 Printed electronics on paper

Chairman: David Cameron

Prof. Martti Toivakka, Åbo Academy

Finland

13:30 3.2 Barrier layers on paper-based packaging

Dr. Kimmo Lahtinen, Lappeenranta Univ. of Tech.

Finland

13:55 3.3 Plasma-Nano Process for Design and Synthesis of Functional Films on polymer for Emerging Industries

Prof. Jeon Han, SungKyung Kwan University

Korea

14:20 3.4 Coatings and their applications in textiles.

Dr. Guy Buyle, Centexbel

Belgium

14:45 *Coffee*

SESSION 4 Sensors and nanotechnology (15:15 - 16:30)

15:15 4.1 Status and potential of Finnish Nanotechnology

Chairman: Juha Kauppinen

Dr. Eeva Viinikka, Culminatium Ltd.

Finland

15:40 4.2 Coatings in printed sensors

Prof. Tapio Fabritius, University of Oulu

Finland

16:05 4.3 Structural characterization of thin films and coatings by X-ray scattering methods

Lars Khoshroo, PANalytical Ltd.

Germany

16:30 **Bus transportation back to hotels**

EVENING PROGRAM

18:15 Bus transportation to Tertti Manor (seminar dinner)

21:30 Bus transportation back to hotels

start Thursday, March 15th

8:00 Bus transportation to seminar venue (Mikpoli auditorium) from Hotel Cumulus, 08:15 from Hotel Vaakuna

SESSION 5 Industrialisation of Atomic Layer Deposition (08:30 - 10:10)

8:30 5.1 Fast-ALD - an atmospheric ALD process

Chairman: Juha Kauppinen

Dr. Paul Poodt, TNO

The Netherlands

8:55 5.2 In-line atmospheric pressure ALD

Dr. Vladimir Kuznetsov, Levitech

The Netherlands

9:20 5.3 Industrial ALD systems

Dr. Mikko Söderlund, Beneq Ltd.

Finland

9:45 5.4 Development of roll-to-roll atomic layer deposition

Prof. David Cameron, Lappeenranta Univ. of Tech.

Finland

10:10 *Coffee*

SESSION 6 Solar thermal applications (10:40 - 11:55)

10:40 6.1 Testing of materials for solar exposure

Chairman: David Cameron

Vesa Erkkilä, Solar Simulator Ltd.

Finland

11:05 6.2 High temperature coatings for concentrated collectors

Dr. Martin Andritschky, Savo-Solar Ltd.

Finland

11:30 6.3 Coatings for solar thermal collectors

Aki Matilainen, Savo-Solar Ltd.

Finland

11:55 *Lunch*

12:55 Company presentation: Neoplas

SESSION 7 Solar thermal systems (13:10 - 16:55)

13:10 7.1 Solar thermal development in the world

Chairman: Kaj Pischow

Prof. Jan Olof Dalenbäck, Chalmers University

Sweden

13:35 7.2 Sitra's energy programme

Sami Tuhkanen, SITRA

Finland

14:00 7.3. Big installations around the world

Christian Holter, S.O.L.I.D.

Austria

14:25 *Coffee*

14:50 7.4 Solar District heating: why is Denmark leading

Jan Erik Nielsen, PlanEnergy Denmark

Denmark

15:15 7.5 Solar District Heating in Germany

Manfred Reuss, ZAE Bayern

Germany

15:40 7.6 District heating system in Finland

Mikko Ruotsalainen, Porvoon Energia

Finland

16:05 7.7 Flat-plate collectors - State-of-the-Art and Trends

Sebastian Brandmayr, Hochschule Ingolstadt

Germany

16:30 7.8 Full AI district heating

Jari Varjotie, Savo-Solar Ltd.

Finland

17:00 **Bus transportation back to hotels**

EVENING PROGRAM

18:00 Mikkeli City reception at Mikkeli City Hall

19:30 Evening get together at Gastropub Eino

start Friday, March 16th

9:00 Bus transportation to Anttolanhovi from Hotel Cumulus, 09:15 from hotel Vaakuna

10:00 Arrival at Anttolanhovi

11:30 *Lunch*

13:00 Smoke sauna

16:00 *Dinner*

18:00 Bus back Mikkeli Train Station and after dropping passengers, back to hotels