

MIICS 2010 Seminar Programme

Wednesday 17 th March		start	end	duration
Registration		08:15	09:00	00:45
Opening of the seminar	Soile Kuitunen, Development Manager, Mikkeli City	09:00	09:05	00:05
	Heikki Saastamoinen, Rector, Mikkeli University of Applied Sciences	09:05	09:10	00:05
	Juha Kauppinen, Miktech, Nanotechnology Cluster Programme	09:10	09:15	00:05
	Prof. David Cameron, University of Lappeenranta	09:15	09:20	00:05
Opening lecture				
Alan Plaisted, Technical Director, Soleras Ltd, USA	History of the vacuum coating industry	09:20	09:50	00:30
Coffee		09:50	10:10	00:20
Future and large scale processes-plasma processes				
Prof. Ulf Helmersson, Linköping University, Sweden	High power impulse magnetron sputtering - the sputtering technique for tomorrow?	10:10	10:35	00:25
Prof. Ludvik Martinu, Ecole Polytechnique Montreal, Canada	Plasma enhanced chemical vapor deposition - From laboratory to large scale production	10:35	11:00	00:25
Dr. Glen West, Manchester Metropolitan University, UK	High power pulse magnetron sputtering	11:00	11:25	00:25
Prof. J. G. Han, SunkKyungKwan University, South Korea	High rate crystalline Si film deposition by control of high frequency plasma	11:25	11:50	00:25
Lunch		11:50	12:50	01:00
Solar energy and environmental applications				
Pia Salokoski, TEKES, Finland	GROOVE: Growth from Renewables	12:50	13:15	00:25
Prof. Pedro Alpuim, University of Minho, Portugal	State of the art of amorphous Si thin film solar cells	13:15	13:40	00:25
Prof. Martin Andritschky, University of Minho, Portugal	Coatings for solar thermal collectors.	13:40	14:05	00:25
Coffee		14:05	14:25	00:20
Vesa Sorasahi, Savo-Solar Oy	Solar thermal collector production	14:25	14:40	00:15

Prof. Luis Rebouta, University of Minho, Portugal	Innovative TCO coatings	14:40	15:05	00:25
Enhancing polymers using coatings				
Aki Matilainen, Savcor Oy, Finland	Hard transparent coatings on polymers by PECVD	15:05	15:30	00:25
Dr. Jolanta Klemberg-Sapieha, Ecole Polytechnique Montreal, Canada	Understanding the role of surfaces and interface for enhanced performance of coatings on plastics	15:30	15:55	00:25
Process development and analysis				
Dr. Bengt-Johan Skrifvars, Top Analytica Ltd. Finland	Problem-solving and control using material analysis	15:55	16:20	00:25
POST SEMINAR	Seminar Dinner at Tertti Manor. Finnish food and beverage specialties will be served in an old farming house environment.	19:00	24:00+	
Thursday 18th March		start	end	duration
Nanomaterials and nanostructured coatings and their applications				
Dr. Asko Vehanen, Carbodeon Ltd Oy, Finland	Nanodiamonds and their application	09:00	09:25	00:25
Dr. Renate Förch, Max Planck Institute for Polymer Research, Mainz, Germany	Plasma polymerisation for biomaterial applications	09:25	09:50	00:25
Coffee		09:50	10:20	00:30
Dr. Eva Moser, Swiss Federal Laboratories for Materials Testing and Research EMPA, Switzerland	Coatings for self-cleaning surfaces	10:20	10:45	00:25
Ric Shimshock, MLD Technologies, California, USA	Characterization of Low Loss Optical Materials and Optical coatings	10:45	11:10	00:25
Prof. Jari Koskinen, Helsinki University of Technology, Finland	Functional thin coatings	11:10	11:35	00:25
Prof. Erich Bergmann, University of Applied Science of Western Switzerland, Geneva, Switzerland	Decorative coatings : history, application requirements, nanocomposite innovations	11:35	12:00	00:25
Lunch		12:00	13:00	01:00
Future and large scale processes - atomic layer deposition				
Prof. Markku Leskelä, Helsinki University, Finland	Industrial applications of ALD	13:00	13:25	00:25
Prof. David Cameron, Lappeenranta University of Technology, Finland	Towards a roll-to roll ALD process	13:25	13:50	00:25
Jarmo Maula, Beneq Oy, Finland	Latest developments in large scale ALD coating	13:50	14:15	00:25
Coffee		14:15	14:45	00:30

Global needs – solutions from nanotechnology

Prof. Colin Whitehouse, Science and technology Facilities Council, UK	Current research in STFC	14:45	15:10	00:25
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Dr. Esko Peltonen, Nanotechnology Cluster Programme, Finland	Responsible nanotechnology for sustainable development	15:10	15:25	00:15
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Wear and Friction

Dr. Roel Tietema, Hauzer Techno Coating BV, Venlo, The Netherlands	Large Scale Production of coatings for wear protection in decorative and aerospace application	15:25	15:50	00:25
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Dr. Helena Ronkainen, VTT, Espoo Finland	Wear modelling of coated surfaces	15:50	16:15	00:25
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POST SEMINAR	Reception by the Mayor of Mikkeli in the City Hall	19:00	20:00	
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	Visit to Pub Pruuvi. Locally Brewed Beer and Local Jazz. Sponsored by Beneq Oy.	20:00	24:00+	
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Friday 19th March

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POST SEMINAR	After an early hotel breakfast we will start a bus tour to Anttolanhovi, where we shall arrive at 10.00.	09:30	18:00	
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The programme consists of informal indoor and outdoor activities. Voluntary activities range from crosscountry skiing to winter fishing on the lake, discussions by an open fire and beverages will be arranged.

After a lunch in the Kota (hut) restaurant there is the possibility to divide into discussion groups, go to a Finnish Smoke Sauna and try ice swimming, take a guided tour of the prize-winning Anttolanhovi design villas.

The day will be rounded off by final seminar dinner in the Kota restaurant.

Please note that there is a bus leaving from Anttolanhovi - Mikkeli to Helsinki on the 19th of March after the post seminar activities at 18.00.