

MIICS 2012

SPEAKER PROFILES

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DR. MARTIN ANDRITSCHKY

Martin Andritschky has a 20 year experience in the development of vacuum coatings and their implementation into an industrial process. He combined the R&D work at the University of Minho, Portugal with the work as a General Manager of Savcor Coatings in USA and Brazil and now since 2010 as Technical Director of Savo-Solar Oy in Mikkeli.



DR. GUY BUYLE

Dr. Guy Buyle holds a Masters of Engineering degree. He obtained his PhD in Physics on the subject of the simulation of the magnetron sputter deposition process. He started working at Centexbel beginning of 2006 in the group of Textile Finishing and Surface Modification. The main topic he worked on was the plasma treatment of textiles, for example to add hydrophilic or hydrophobic properties to the textile surfaces or to improve their dyeability. He has mainly been working on European projects both FP6 and FP7, being strongly involved in their coordination and management. As such, he is now European project coordinator of Centexbel.



SEBASTIAN BRANDMAYR

Sebastian Brandmayr is a Research Engineer at the Centre of Excellence for Renewable Energy Research at Ingolstadt University of Applied Sciences, where he is heading the research group for solar applications. His research focus includes simulation of all kinds of solar thermal applications, R&D in the field of storage tanks and solar thermal collectors as well as investigations in low-temperature process heat.



PROFESSOR DAVID CAMERON

Prof. Cameron has spent over 35 years carrying out research into thin film deposition in the UK, Ireland and Finland. He joined Lappeenranta University of technology in 2004 to start up the ASTRaL research unit. Since then his unit has been working mainly on atomic layer deposition and magnetron sputtering. The ALD work has been directed towards process development, diffusion barrier layers and photocatalytic materials. Currently there is a big emphasis on roll-to-roll ALD development.



PROFESSOR JAN-OLOF DALENBÄCK

Professor in Building Services Engineering with solar energy as specialty and Profile leader for Buildings - Energy use and efficiency - Chalmers University of Technology. Secretary Solar Energy Association of Sweden, Board member International Solar Energy Society. IEA SHC Solar Award 2005 and ISES Service Award 2009.



DR. TAPIO FABRITIUS

Tapio Fabritius received the M.Sc. in 2003 and D.Sc. (Tech.) degree in 2007 from University of Oulu, both in electrical engineering. He was nominated to adjunct professor in 2011. Now he is working as the head of Printed Intelligence Group in Optoelectronics and Measurement Techniques Laboratory, University of Oulu.



PROFESSOR JEON G. HAN

Prof. Han is currently working as a professor of School of Advanced Materials Science and Engineering, Sungkyunkwan University joined since 1987 and a director of Excellency Center for Advanced Plasma Surface Technology supported by Ministry of Science and Technology, Korea since 2000. He graduated in Metallurgical Engineering and received MS in 1978 from Korea University and a Ph.D from Georgia Institute of Technology, U.S.A. in 1985.



DR. MARKKU HEINO

Markku Heino, D.Sc. Tech is Senior Consultant at Spinverse Oy specialized in materials and nanotechnology. He is the Program Manager of the DEMAPP Program (Demanding Applications - focusing on Friction, Wear, Corrosion, Extreme conditions) for Fimecc Ltd., the Finnish Metals and Engineering Competence Cluster. He is also the Coordinator of the Tekes Functional Materials Programme (focusing e.g. on solar energy, printed intelligence and biomedical applications). In both programmes he manages application driven R&D co-operation on new materials, coatings and coating technologies with the aim to generate new business and renew the Finnish industry.



DR. KENNETH HOLMBERG

Kenneth Holmberg, Dr Tech, is Research Professor in tribology, condition monitoring and operational reliability at the VTT Technical Research Centre of Finland. He is the author and editor of several books and he has given 37 invited keynote lectures at international conferences, he has published more than 150 scientific papers mainly in areas of tribology, surface engineering, lubrication, operational reliability, maintenance and diagnostics. Currently he is in charge of the VTT research area focussing on modeling assisted wear control and design combining advanced coatings, tribology and computational simulation.



LARS KHOSHROO

Lars Khoshroo is a material scientist with a broad spectrum of interests concerning thin films and interfaces. His main research topics until now have tooling coatings and semiconductor epitaxy.



PROFESSOR JARI KOSKINEN

Professor of Materials Science and Engineering at Aalto University, School of Chemical Technology. He has over 25 year experience in surface engineering in particular with diamond-like carbon films. Currently he has a group of three graduate students carrying out research on surface engineering for tribological applications in lubricated and elevated temperature conditions.



DR. VLADIMIR KUZNETSOV

Dr. Vladimir Kuznetsov is Director R&D at Levitech B.V., Dutch company providing semiconductor production solutions for the IC and solar industry. Prior to joining Levitech, Dr. Kuznetsov held position of Program Manager at ASM International (1997-2009) and before that held research and management positions at Moscow Institute of Electronic Technology and Delft University of Technology (The Netherlands).



DR. KIMMO LAHTINEN

Dr. Kimmo Lahtinen gained his PhD in 2010 from Tampere University of Technology (TUT). His thesis work dealt with the barrier properties of converted papers. He then joined the ASTRaL unit of Lappeenranta University of Technology for a post-doctoral study. His current research is focusing on the functional properties of atomic layer deposited coatings.



PROFESSOR YUJI MIHARA

Dr. Mihara is a professor in the Engine Research Laboratory of the Department of Mechanical Engineering at Tokyo City University. His research interests are in the area of tribology and its condition monitoring using newly developed methods in the components of power unit and power train. In his study at Tokyo City University, he has been studied bearing friction, bearing load and oil film pressure for engine plain bearings, following this, Dr. Mihara began to research the development of thin-film sensors in order to discover the actual boundary conditions of oil-film in engine bearing.



JAN ERIK NIELSEN

Jan Erik Nielsen (M.Sc.) is head of department in the consulting engineering company PlanEnergi. PlanEnergi has been involved in many of the Danish large solar district heating systems being built from early '90-ties till now. He is Operating Agent of the IEA-SHC Task 45 on "Large Solar Systems". He is also "European Operating Agent" for the IEA-SHC Task 43 on "Solar Rating and Certification Procedures", and was one of the driving forces behind establishing the Solar Keymark certification scheme.



DR. PAUL POODT

Paul Poodt is currently working as senior scientist at TNO (the Netherlands Organization for Applied Scientific Research) in Eindhoven, the Netherlands. His research interests include the fundamentals and applications of thin film deposition, with a strong emphasis on spatial atomic layer deposition.



MANFRED REUSS

Working in the field of renewable energies for more than 30 years, 21 years at the Technical University Munich, Institute of Agricultural Engineering in Freising Weihenstephan working in the field of solar energy and shallow geothermal and since 2001 at the Bavarian Center for Applied Energy Research, Division Technology for Energy Systems and Renewable Energy as group leader of the solar thermal and shallow geothermal working group. He was participating in several international working groups of IEA ECES (“Energy Conservation Through Energy Storage” implementing agreement).



DR. MIKKO SÖDERLUND

Mikko Söderlund received his M.Sc. (Tech.) in 1999 from Helsinki University of Technology (HUT). Between 1999 and 2007, he worked in the field of fiber lasers, both in R&D at VTT Information Technology and in later in the industry, for specialty fiber manufacturing company Liekki Oy. In 2009 he completed his PhD (Dr. Tech) degree at Helsinki University of Technology, Micro- and Nanotechnology laboratory. In 2009, he joined Beneq Oy as an Application Manager to lead the application development for ALD based barrier coatings.



PROFESSOR MARTTI TOIVAKKA

Martti Toivakka is currently a full professor and head of the Laboratory of Paper Coating and Converting at Åbo Akademi University, Finland. He received his doctoral degree in chemical engineering in the area of paper chemistry in 1998. His research group is a member of the Academy of Finland appointed Center of Excellence for Functional Materials, which develops functional materials and demonstrates devices for printed intelligence. His research interests include novel coating and surface treatment methods for natural fiber-based products, printing as a fabrication method and use of paper as a substrate for printed electronics. He has authored and co-authored more than 100 scientific publications in international journals and conferences.



SAMI TUHKANEN

Sami Tuhkanen (M.Sc. Tech.) has 15 years experience on energy and environmental technologies and 6 years experience in managing and investing in growth companies. He is currently responsible for energy-related venture capital investments at Sitra, the Finnish Innovation Fund. Before Sitra he has worked for Tekes as Senior Technology Adviser and for VTT Energy as Research Scientist. He graduated in 1998 from Helsinki University of Technology, Department of Technical Physics.



JARI VARJOTIE

Jari Varjotie, MSc (Technology) is the CEO of Savo-Solar Oy manufacturing the award winning solar thermal collectors and absorbers. He has strong industrial background from over 20 years in health-care, telecommunication, heavy metal building and renewable energy industries. Major accomplishments on wide range of tasks in Finland-based companies working globally, the last being managing director of Winwind Oy.



DR. EEVA VIINIKKA

Eeva Viinikka is the Programme Director of Finnish National Nanotechnology Cluster Programme, responsible for coordinating the eight local Nanotechnology centres of expertise's collaboration, communications and international activities. Dr. Viinikka is also a member of Culminatium Innovation Oy Ltd's (the development company for Helsinki Region) executive team, FIOH Nanosafety centre's advisory board, co-chairman of the NanoFutures Networking WG and the member of Nanofutures Key Node expert group Nano Enabled Surfaces. In addition she holds positions in advisory boards in numerous projects like KEEN-Regions, Psi Industry etc.