

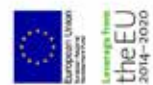
PRINSE'18
31.1.-1.2. Oulu, Finland

PrintoCent

**PRINTED INTELLIGENCE
INDUSTRY SEMINAR**

31 January - 1 February 2018

PrintoCent Founding Members



Thursday 1st February 2018

Session 5A: Automotive 8.30-10.10 Invited speeches, 20 min **Session 5B: Diagnostics** 8.30-10.10 Invited speeches, 20 min

Chairman: Antti Keränen, TactoTek **Saalasti Hall**

08.30-08.50 | Current challenges in hybridization of plastics in the automotive industry
Mathieu Bancelin, Innovation Director, Compagnie Plastic Omnium, France

08.50-09.10 | Lynk & co - the challenge to be different
Andreas Friedrich, Chief Designer MFA, Geely Design Sweden

09.10-09.30 | When materials meet Electronics: novel frontiers in multifunctional components in automotive
Nello Li Pira, GML, C.R.F. company of FCA, Italy

09.30-09.50 | Structural Electronics applications and considerations for Automotive Industry
Ashutosh Tomar, Principal Engineer, Jaguar Land Rover, UK

09.50-10.10 | Future Elevator
Jukka Korpihete, Kone Oyj, Finland

Chairman: Seppo Vainio, University of Oulu **L10**

08.30-08.50 | Creating consumer diagnostics business
Petri Särkelä, Goodwiller Oy, Finland

08.50-09.10 | Paper-based diagnostics: Current state and commercialization
Maria-Nefeli Tsaloglou, PhD, CTO, Diagnostics for All, USA

09.10-09.30 | Quantitative blood sampling using lamination based microfluidics and dissolvable films
Anna Ohlander, Capitainer AB, Sweden

09.30-09.50 | Towards reliable mass screening of infection diseases
Jarmo Järvenpää, iStoc Oy, Finland

09.50-10.10 | Disposable Diagnostics by Pilot Line
Jussi Hiltunen, VTT, Finland

Session 6A: Manufacturing Solutions -3 10.30-11.50 Invited speeches, 20 min **Session 6B: Health & Wellness Applications** 10.30-11.50 Invited speeches, 20 min

Chairman: Jukka Hast, VTT **Saalasti Hall**

10.30-10.50 | R2R high resolution printing technology by using SRM
Tsuneharu Tanaka, Asahi Kasei Corporation, Japan

10.50-11.10 | Shaping surfaces into experiences
Ilkka Varjos, Vice President, Technology, Canatu Oy, Finland

11.10-11.30 | Roll to roll printing in energy industry: Eni-VTT joined R&D activity in the field of Organic Photovoltaics
Andrea Bernardi, ENI, Italy

Chairman: Tomas Olsson, Ginolis **L10**

10.30-10.50 | Feasibility of Printed Electronics in Disposable Medical Sensors
Juha Virtanen, Principal Engineer, GE Healthcare

10.50-11.10 | Instant, at-a-glance, clinical grade heart beat indicator
Lauri Kuronen, CEO, Spektikor Oy

11.10-11.30 | Laboratory level measurement of gait analysis in everyday life
Eero Kaikkonen, CEO, Movesole Oy

11.30-11.50 | Disruptive Service Platform for EEG
Matti Saren, Bittium Biosignals Oy

11.50-13.30 Market bazar, demos, Brella Matchmaking, Visit to the University of Oulu Labs

Session 7A: Entrepreneurship & Funding 13.30-14.45 Invited speeches, 10 min **Session 7B: Quality Assurance** 13.30-14.45 Invited speeches, 10 min

Chairman: Juha Rantala, Inkron **Saalasti Hall**

13.30-13.40 | Small & Big
Juha Rantala CEO, Inkron Oy, Finland

13.40-13.50 | Garage incubator for startups
Ari Takanen, Startup advisor and investor, Kielo Growth Oy

13.50-14.00 | Building a KET company
Pekka Makkonen, CEO, FlexBright Oy, Finland

14.00-14.10 | Funding a KET Company
Ed Schneider, Spirit Ventures

14.10-14.20 | Regional Venturing
Jaakko Lampela, CEO, Nordic Option, Finland

14.20-14.45 | Panel Discussion

Chairman: Timo Peltoniemi, Elcoflex Oy **L10**

13.30-13.40 | Quality Assurance Needs in R2R printing and UV Nanoimprinting
Thomas Kolbusch, Coatema Coating Machinery GmbH, Germany

13.40-13.50 | How to ensure the quality in R2R component assembly
Christian Stöhr, BD Manager Sales, Mühlbauer GmbH & Co. KG

13.50-14.00 | 3D Inspection of Printed Electronics Structures using Line Confocal Technology
Karri Niemelä, Co-Founder, CTO, Focalspec Oy, Finland

14.00-14.10 | Increasing the Precision and Stability of the Existing Multilayer Printing Processes
Antti Takaluoma, Development Director, Offcode Oy, Finland

14.10-14.20 | Guidelines for R2R Manufacturing Quality Assurance
Tapio Fabritius, Professor, University of Oulu, Finland

14.20-14.30 | R2R Testing
Tuomas Happonen, VTT, Finland

14.30-14.45 | Discussion and Conclusion

Session 8: Visions for the next 10 years **Saalasti Hall**

15.00-16.45 Invited speeches

Chairman: Arto Maaninen, University of Oulu

15.00-15.25 | Global e-Health and Biosecurity with Smart SANDS
Luke Lee, Professor & Director of BIGHEART, National University of Singapore, Singapore

15.25-15.50 | Materials, Process, and Device Innovations for High-Performance Printed Electronics
Vivek Subramanian, Professor, EECS, UC Berkeley, USA

15.50-16.15 | Reactive Printing in Materials and Devices
Ghassan Jabbour, Professor, University of Ottawa, Canada

16.15-16.30 | Printed Intelligence - the Next Wave
Harri Kopola, Professor, VTT, Finland

16.30-16.45 | Concluding the Seminar and Vision
Arto Maaninen, Vice Rector, Co-operation, University of Oulu

17.00-18.30 Pilot Factory Visits / VTT and OUAS

VTT Technical Research Centre of Finland, Kaitoväylä 1, Oulu OR
Oulu University of Applied Sciences, Kotkantie 1, Oulu

Bus leaves after the seminar~17.00 to VTT Technical Research Centre of Finland and to Oulu University of Applied Sciences for Pilot Factory visits.
After the Pilot Factory visits the bus takes you back to Scandic Hotel.

17.00 Bus transportation from University of Oulu via hotel Scandic to Oulu Airport.

20.00-24.00 Sauna and jacuzzi by the sea-walking on ice

Sauna and jacuzzi by the sea - walking on ice at Nallikari beach, Restaurant Nallikari, Nallikarinranta 15, Oulu

Bus transportation to/from hotel:

Wed 31st January at 8.15 and Thu 1st February at 8.00 from hotel Scandic to University of Oulu.

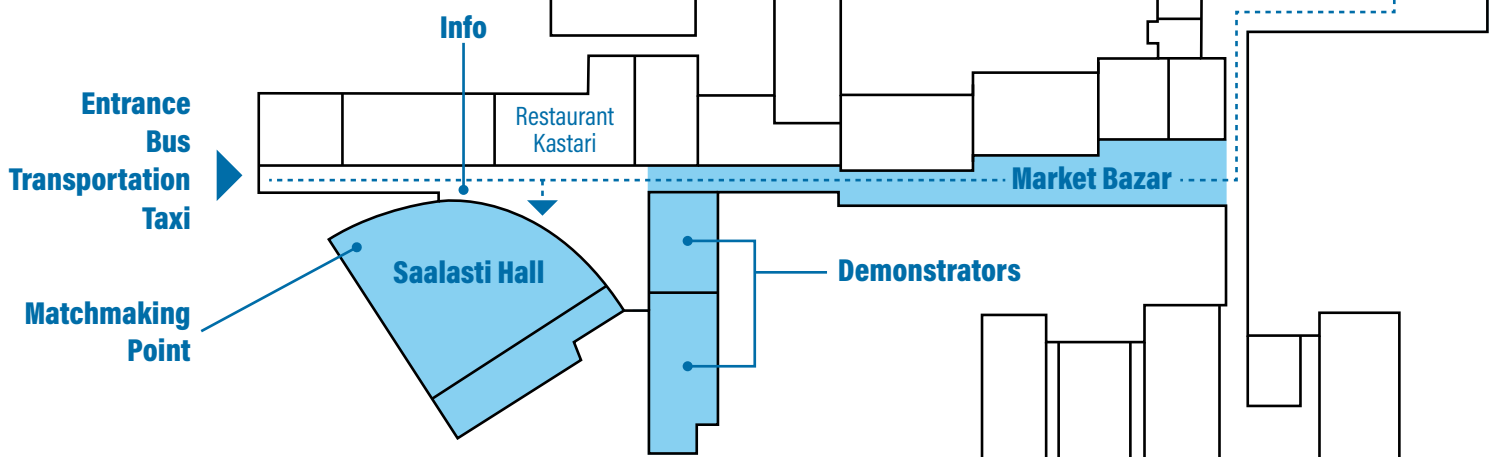
Wed 31st Jan from University of Oulu to hotel Scandic after the seminar program at 17.45.

Thu 1st Feb at 17.00 from University of Oulu via hotel Scandic to Oulu Airport.

Please do not hesitate to contact: Sanna Rousu, tel. +358 40 047 2975 | Soile Kemi, tel. +358 40 354 8890 | Oulu taxi: 0600-30081 or + 358 600-30081

SEMINAR VENUE

University of Oulu, Main Building
Address: Pentti Kaiteran katu 1, 90590 Oulu



Wednesday 31st January 2018

Session 1: Opening and keynotes

Saalasti Hall

09.10-09.20 | **PrintoCent today**
Ilkka Kaisto, PrintoCent

10.00-10.20 | **User Interface in Glass**

Janne Ilonen, BD Manager, Pilkington Automotive Finland Oy, Finland

9.00-11.00 Invited Speeches, 20 min

09.20-09.40 | **How to expand the portfolio of big companies to new offerings through novel technologies, "Printed Functionality from vision to reality"**

Andreas Hafner, Principal Innovation Manager, BASF SCHWEIZ AG, Switzerland

10.20- 10.40 | **Printed Electronics: Money, Markets, Technologies & Opportunities - The Big Picture**

Raghu Das, IDTechEx, UK

Chairman: Harri Kopola, VTT

09.00 -09.10 | **Welcome and opening**

Harri Kopola, Professor, PrintoCent

09.40-10.00 | **IMSE - Injection moulded structural electronics**

Antti Keränen, CTO & Co-founder, Tactofek Oy, Finland

10.40-11.00 | **PrintoCent Pilot Factory services - From KET to industry**

Kari Rönkä, VTT, Finland

Session 2A: Product launches & company & RTO pitches

11.15-12.15 Company pitches, 5 min

Chairman: Tapio Fabritius, University of Oulu & Jussi Paakkari, VTT

11.15-11.20 | **Product Launch**

Tommi Rintala, Co-Founder, CEO, New Cable Corporation Oy, Finland

Saalasti Hall

11.20-11.25 | **Product Launch**

Jarkko Heikkinen, VP, Pastes and Inks, Inkron Oy, Finland

11.25-11.30 | **Stretchable Conductive Ink for Smart Textile Applications**

Corrado Fontanesi, Eptatech Srl, Italy

11.30-11.35 | **Stretchable applications: from base materials to device prototyping**

Dmitry Krakhin, Chairman of the Board, TC Printed Technologies, Russia

11.35-11.40 | **Ambient Communication**

Jari Vuorinen, Partner, Chief Product Officer, Skandal Technologies Oy, Finland

11.40-11.45 | **Wireless performance of wearable devices' antenna and benefit of printable antennas in a wireless test system**

Pertti Mäkiyry, Principal Engineer, Verkotan Oy, Finland

11.45-11.50 | **Adding Data Transfer to Wireless Charging**

Turo Piila, CEO, Neficon Finland Oy, Finland

11.50-11.55 | **Passive moisture sensors for building structures**

Tommy Höglund, Invisense, Sweden

11.55-12.00 | **Sensor card - device to monitor your environment**

Christian Schuss, University of Oulu, Finland

12.00-12.05 | **Hilla program - aiming to joint export business cases via multi company-research cooperation**

Harri Hyväri, Senior Scientist, VTT, Finland

12.05-12.10 | **EU Pilot Line offering for Component and Hybrid Intergration - LYTEUS, INSCOPE, SMARTEES,**

Markus Tuomikoski, Senior Scientist, VTT, Finland

Session 2B: Company & RTO & idea pitches

11.15-12.15 Company pitches, 5 min

Chairman: Harri Määttä, Oulu University of Applied Sciences & Maria Smolander, VTT

11.15-11.20 | **Smart Multianalyte Handheld Detection for Bioanalytics**

Anna Spehar, Chief Applications Officer, Biomensio Oy, Finland

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11.20-11.25 | **Active Paper in Diagnostics Use**

Tomi Erho, CEO, The Active Paper Company Oy, Finland

11.25-11.30 | **Printed Sweat Collector - What can you detect out of Sweat?**

Prateek Singh, University of Oulu, Finland

11.30-11.35 | **SmartFish - Intelligent System for Fresh Fish Cold Chain Transportation**

Harri Määttä, Oulu University of Applied Sciences, Finland

11.35-11.40 | **BITalino is redefining biomedical education, research and prototyping, by making otherwise inaccessible tools available to everyone**

Hugo Silva, PLUX Wireless Biosignals, Portugal

11.40-11.45 | **Production of sensor labels**

Göran Gustafsson, RISE Acreo AB, Sweden

11.45-11.50 | **Analytics+, Largest Northern Scandinavian Analytics Hub**

Susanna Pirttikangas, Analytics+, Finland

11.50-11.55 | **PrintoCent Boosted ideas**

Eero Kaikkonen, Coach, Miner Oy, Finland

11.55-12.00 | **ESD-IOT sandal**

Juha Hannula, Idea Owner, Free for further development

12.00-12.05 | **THERMOSTRIP - simple outdoor-indoor thermometer**

Esa Pollari, Programme Manager, Co-operative org / AVipunen Oy, Finland

12.05-12.10 | **Dynamic Modular LEDFOIL System Product**

Heikki Kantola, Neonelektro Oy, Finland

12.10-12.15 | **Pressure Deviation Sensor**

Jani Korpinen, Idea Owner, Company to be established

12.15-14.00 Market bazar, demos, Brella Matchmaking, Visit to the University of Oulu Labs

Session 3: Manufacturing Solutions-1

Saalasti Hall

14.00-15.40 Invited Speeches, 20 min

Chairman: Juha Ala-Mursula, Business Oulu

14.00-14.20 | **Printed electronics real life cases**

Juha Paavola, COO, Elcoflex Oy, Finland

14.20-14.40 | **Flexible and Ultra-Thin Light Guide Film Technologies by Roll-to-roll UV-embossing Process**

Samuli Siitonen, CTO, Nanocomp Oy, Finland

14.40-15.00 | **Automated high quality manufacturing of disposable medical and diagnostic devices**

Tomas Olsson, Ginolis Oy, Finland

15.00-15.20 | **Nanostructures produced in mega volumes**

Raimo Korhonen, Partner, Iscent Oy, Finland

15.20-15.40 | **High volume Roll-to-Roll component assembly by Flexbright**

Pekka Makkonen, CEO, Co-founder & Veli Heikkinen CTO, Flexbright Oy, Finland

Session 4A: Manufacturing Solutions-2

16.00-17.40 Invited speeches, 20 min

Chairman: Thomas Kolbusch, Coatema Coating Machinery GmbH

Saalasti Hall

16.00-16.20 | **DNP's Vision of Flexible Organic Electronics**

Takeshi Kihara, DNP, Japan

16.20-16.40 | **Disposables for Medical measurements and lifechanging applications - promise of Roll-to-Roll manufacturing**

Antti Tauriainen, CEO, Screentec Oy, Finland

16.40-17.00 | **HC Flex optical films and coatings for Roll-to-Roll manufacturing**

Tiina Leppäjärvi, Optitune Oy, Finland

17.00-17.20 | **Printed Electronics - Potential and Challenges in Industrial Telecommunications Products**

Veikko Lukkari, Nokia Oy, Finland

17.20-17.40 | **End-To-End-Solutions - How to get Printed Electronics integrated?**

Pekka Lamminpää, Sanmina-SCI EMS Haukipudas Oy, Finland

Session 4B: Ambient Intelligence

16.00-17.40 Invited speeches, 20 min

Chairman: Jani-Mikael Kuusisto, Ynvisible

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16.00-16.20 | **Connectivity, sensing and digital services for the not-spots**

Martti Ylikoski, Nokia Oy, Finland

16.20-16.40 | **Practical human interfaces for ambient intelligence - Elevating printed graphics with electrochromics**

Jani-Mikael Kuusisto, Ynvisible, Portugal & Lance Littell, Executive Vice President, NXN Licensing, USA

16.40-17.00 | **The Lego House**

Stuart Harris, LEGO, Denmark

17.00-17.20 | **HappyOrNot - Smileys Everywhere**

David Zautasvii, Product Development Manager, HappyOrNot, Finland

17.20-17.40 | **Making active lifestyle fun: Combining virtual & physical words**

Klaus Kääriäinen, Fitness Village Oy, Finland

19.00 Reception at Oulu City Hall

Oulu City Hall, address: Kirkkokatu 2A, 90100 Oulu

Guided 3-minute walk starting from Hotel Scandic Lobby at 18.45