

EPOSS & EPSI Annual Forum 2020

Smart Systems to #BeActive

DAY 1 – September 29, 2020

PROGRAMME

Opening Session - Future Funding Priorities for European Recovery

Chair: Stefan Finkbeiner, EPoSS Chairman

10:00 - 10:10 Welcome by the Moderator and EPoSS Chairman

10:10 - 10:25 **Stefan Finkbeiner**
EPoSS Chairman, Bosch Sensortec

10:25 - 10:35 **Lucilla Sioli**
*Director of Artificial Intelligence and Digital Industry
DG CONNECT, European Commission*

10:35 - 10:45 **Herbert Zeisel**
*Head of the Department Technology-oriented Research for Innovations
German Federal Ministry of Education and Research BMBF*

10:45 - 10:55 **Christian Frey**
*Head of Business and Innovation
FFG Österreichische Forschungsförderungsgesellschaft mbH*

10:55 - 11:05 **Bert de Colvenaer**
Executive Director of the ECSEL Joint Undertaking

11:05 - 11:20 **Key Note:** Markus Riestler
CTO, midge medical European Recovery from the Pandemic: How to Build a Billion Molecular Tests for SARS-CoV-2

11:20 - 11:40 Questions and Answers

11:40- 12:00 Break

EPoSS Session I - Smart Systems for Green Deal

Chair: Elisabeth Steimetz, EPoSS Office Director

12:00 - 12:15 **Key Note:** Mario Diaz Nava
ST Microelectronics Green Deal for Agriculture, Food and Natural Resources

12:15 - 12:25 **Marina Navarro-Segarra**
IMB-CNM (CSIC) Biodegradable Batteries for Sustainable Smart Systems

12:25 - 12:35 **Kévin Le Blévenec**
VITO Role and Impact of Functional Electronics on the Transition towards a Circular Economy – 5E Vision Paper

12:35 - 12:45 **Gereon Meyer**
VDI/VDE-IT Green Deal for Mobility: Road Transport Partnerships CCAM and 2ZERO

12:45 - 13:00 Questions and Answers

13:00- 13:45 Lunch Break

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EPOSS Session II: Smart Solutions for Industry 4.0

Chair: *Christine Neuy, microTEC Südwest*

13:45 - 14:00	Key Note: Alessandro Marini <i>AFIL Italy</i>	The New Smart: Factories for Humans
14:00 - 14:10	Mirko Ross <i>Digital worx</i>	IIoT-Technologies and Cybersecurity for Manufacturing at Kallfass Verpackungsmaschinen in CYSEMA Project
14:10 - 14:20	Kris Putrins <i>IniVation</i>	Identifying the Benefits of Neuromorphic Vision in Industrial Applications
14:20 - 14:30	Knut Aasmundtveit <i>University of South-Eastern Norway</i>	Erasmus Mundus Master in Smart Systems Integrated Solutions
14:30 - 14:45	Questions and Answers	

14:45 - 15:15 Break

EPOSS Session III - AI at the Edge

Chair: *Stephan Karmann, Hahn Schickard*

15:15 - 15:30	Key Note: Heiko Claussen <i>SIEMENS</i>	Industrial Robot Grasping with Deep Learning using a Programmable Logic Controller (PLC)
15:30 - 15:40	Tobias Steege <i>Fraunhofer IWS</i>	AI in Material Modification with Photonic Tools; How Laser-based Surface Functionalities Can Become Predictable Using Machine Learning Approaches
15:40 - 15:50	Kaustubh Gandhi <i>Bosch Sensortec</i>	AI at the Edge: Self-learning Sensor and Software Technology for Sports and Lifestyle Applications
15:50 - 16:00	Dirk Mayer <i>Fraunhofer IIS</i>	Artificial Intelligence for Sustainable and Energy Efficient Buildings
16:00 - 16:15	Questions and Answers	

16:15 - 17:00 Break

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5E Transversal WG - Workshop

Chair: Petra Weiler and Nicolas Gouze, VDI/VDE-IT

17:00 - 17:10	Petra Weiler and Nicolas Gouze <i>5E Coordinators, VDI/VDE-IT</i>	Welcome and Introduction
17:10 - 17:20	Sywert Brongersma <i>IMEC NL</i>	A Joint Vision for the European Electronics Ecosystems: Shifting from Physical to Functional Electronics
17:20 - 17:50	5E Vision Papers in One Slide:	
	Elise Saoutieff <i>CEA Leti</i>	Functional Electronics and Energy
	Stephan Karmann <i>Hahn Schickard</i>	Functional Electronics as Enabler for Autonomous Operation of Machines
	Corné Rentrop <i>TNO</i>	Sensing the future
	Nicolas Gouze <i>VDI/VDE-IT</i>	Functional Electronics for Circular Economy
	Q&A Session <i>Please use the "Question" feature and specify to which topic the question is related</i>	
17:50 – 18:20	Interactive Part of the Workshop <i>supported by Mentimeter – live survey feature</i>	
18:20 – 18:30	Wrap-up & Closing	

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DAY 2 – September 30, 2020

Joint EPoSS/EPsi Session IV - Smart Systems to overcome COVID-19

Chair: Alberto Bichi, EPSI

10:00 - 10:15	Opening of the second day by the Moderator and the Chairperson	
10:15 - 10:25	Guglielmo di Cola <i>Member of Cabinet of the Commissioner for Innovation, Research, Culture, Education and Youth, European Commission</i>	
10:25 - 10:40	Key Note: Steve Haake <i>Professor of Sports Engineering at Sheffield Hallam University</i>	Sport and Vitality in the Pandemic World
10:40 - 10:55	Key Note: Daniel Mark Spindig	A Smart Dream Comes True: From Microfluidics R&D to Product Launch of a Rapid SARS-CoV-2 Test in Pandemic Times
10:55 - 11:05	Kathleen Spring <i>Bioanalytik</i>	The Impact of Technologies on the Change in Healthcare Delivery Today and Tomorrow
11:05 - 11:20	Questions and Answers	

11:20 - 11:40 Break

Joint EPoSS /EPsi Session V - Smart Systems for Health and Active Living

Chair: Rainer Günzler, Hahn Schickard

11:40 - 11:45	Introduction by the Chairperson	
11:45 - 11:55	Jan Mitrovics <i>JLM Innovation</i>	Smart Sensor Systems for Breath Analysis. Opportunities, Challenges, Strategies.
11:55 - 12:05	Lucas Ginzinger <i>Bosch Sensortec</i>	Unlocking Potential of Smart Glasses for Sport Applications Combining Sensing and All-day Display Solution
12:05 - 12:15	Christophe Verjus <i>Centre Suisse d'Electronique et de Microtechnique (CSEM)</i>	Solutions for 24/7 Monitoring of Physiological Parameters
12:15 - 12:25	Jos Aarts <i>University Maastricht</i>	Mobilisation and Activation of People with Technical and/or Activity 'Special Needs'
12:25 - 12:35	Neus Sabaté <i>IMB-CNM (CSIC)</i>	Self-powered Strategies Enabling Health Monitoring
12:35 - 12:50	Questions and Answers	

12:50 - 13:40 Lunch Break

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EPoSS/EPsi Session VI - Smart Systems for Sports Applications

Chair: René Wijlens, EPSI

13:40 - 13:45 Introduction by the Chairperson

13:45 - 13:55 **Anders Erik Liverud**
SINTEF Human Motion Tracking from Heterogeneous Sensor Data

13:55 - 14:05 **Salvatore Tedesco**
Tyndall National Institute, University College Cork Wearable Motion Sensors for the Estimation of Vertical Ground Reaction Forces in Running

14:05 - 14:15 **Pieter Bauwens**
Imec/ Ghent University A Stand-Alone Motion Tracking Suit for Optimizing Cycling Biomechanics

14:15 - 14:25 **Jérôme Boutet**
CEA-LETI Classifying Boxing Strikes by Artificial Neural Network Embedded in a Wristband

14:25 - 14:40 Questions and Answers

14:40 - 15:00 Break

15:00 – 17:00 EPoSS - EPSI Brokerage

Smart Systems
to
Overcome COVID-19

Alberto Bichi, *EPSI*
Elisabeth Steimetz, *EPoSS*

Smart Systems
for
Sport and Vitality

Carlotta Giussani, *EPSI*
Petra Weiler, *EPoSS*

Smart Systems
for
Sports Application

René Wijlens, *EPSI*
Monika Curto Fuentes, *EPoSS*

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