

# Joint Event EPoSS Annual Forum 2018 & MNBS 2018

**16-18 October 2018** CERTH Thessaloniki, Greece

# Programme















### 15 October 2018 (Day 0)

### 17:00 EPoSS Executive Committee Meeting

(restricted to members of the EPoSS Executive Committee)

Venue for the EPoSS Executive Committee Meeting is:

#### Makedonia Palace Hotel

Leof. Meg. Alexandrou 2 Thessaloniki 546 40 Greece +30 231 089 7197



### 20:00 EPoSS Executive Committee Dinner

(restricted to members of the EPoSS Executive Committee)

#### Grada Nuevo

Kalapothaki 14 Thessaloniki 546 24 Greece +30 231 027 1074









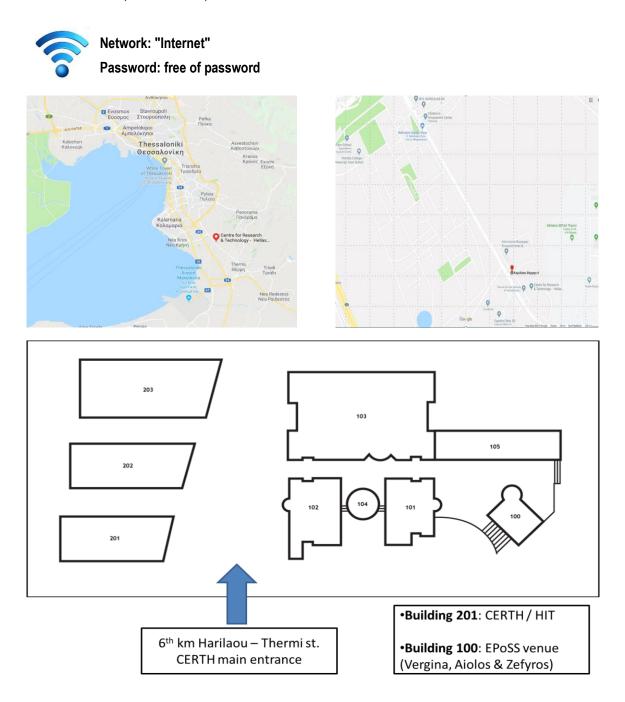




# Venue (16 – 18 October 2018)

### Centre for Research and Technology Hellas CERTH

6th km Charilaou-Thermi Rd GR 57001 Thermi, Thessaloniki, Greece











## 16 October 2018 (Day 1)

#### 09:00 Registration for the EPoSS Annual Forum 2018 Welcome Coffee & Opportunity to Visit the Poster Exhibition in the Library

09:30	Working Group Meetings		
9:30	WG Transportation	WG Healthy Living & WG Applied MNBS	WG Manufacturing & Robotics & WG Communications for Smart Devices
	Room: Aiolos	Room: Vergina Amphitheatre	Room: Zefyros
40.00	WC Key Technologies		

10:30WG Key Technologies

Room: Vergina Amphitheatre

11:30 Coffee Break & Opportunity to Visit the Poster Exhibition in the Library

12:00 EPoSS Annual Forum Opening Session Room: Vergina Amphitheatre

Chair: Wolfgang Gessner, Head of EPoSS Office

Welcome addresses of:

- 1. Evangelos Bekiaris, *Director*, Hellenic Institute of Transport at CERTH
- 2. Renzo Dal Molin, EPoSS Vice Chairman, Cairdac
- 3. Yannis Boutaris, Mayor, City of Thessaloniki
- 4. Colette Maloney, Head of Unit Competitive Electronics Industry, DG CONNECT of European Commission
- 5. Bert de Colvenaer, Executive Director, ECSEL Joint Undertaking

Best practice case: Stephan Karmann, Hahn-Schickard Cooperative Foundry Model for Smart Systems

13:15 Lunch Break











#### 14:15 Annual Forum Session I: Smart Systems for Energy Room: Vergina Amphitheatre

Chair: Stefan Wolf, VDI/VDE Innovation + Technik GmbH & EPoSS Office

Introduction: Stefan Wolf, VDI/VDE Innovation + Technik GmbH & EPoSS Office

#### Short presentations on Smart Systems for Energy:

- 1. Stephan Karmann, Hahn-Schickard Smart Systems for Energy - Hahn-Schickard Activities
- 2. Chris Merveille, IK4 IKERLAN Real-World Solutions in Energy Management and Mobility
- 3. Luis Fonseca, CNM-CSIC CNM Activities on Micro-Nanodevices for Energy Applications'
- 4. Harald Pötter, Fraunhofer IZM Wireless Sensor Nodes for a Smart Grid
- 5. Sven Rzepka, Fraunhofer ENAS Reliability for Smart Energy Applications



Ask your questions live and prior to the session using <u>slido.com</u> and the event code P178 !

*Discussion on scope of Working Group facilitated by:* Stefan Wolf, VDI/VDE Innovation + Technik GmbH & EPoSS Office

#### 15:45 Networking Coffee Break & Opportunity to Visit the Poster Exhibition in the Library

16:15 Annual Forum Session II: Smart Systems for Mobility Room: Vergina Amphitheatre

Chair: Stella Nikolaou, Head of Commercial Exploitation of Research Results & IPRs, CERTH/HIT

- 1. Massimiliano Melis, General Motors Global Propulsion Systems The Paradigm Shift of Automotive in the IoT World and a Practical Example of an Automotive Smart Systems Application
- 2. Stella Nikolaou, CERTH/HIT Sector A 'Driver & Vehicle' Research Competence on Smart Systems for Safe Mobility with Focus on Autonomous Driving Applications
- **3. Dag Andersson**, RISE IVF AB Integrated Vibration Sensors for Condition Monitoring of PCBs
- **4. Riccardo Groppo**, Ideas & Motion s.r.l. *SilverStream: Project Results and the Way Ahead*

**17:15 EPoSS General Assembly 2018** *Room: Vergina Amphitheatre / Restricted to EPoSS Members* 









- 19:00 End of EPoSS General Assembly
- 19:30 Meeting for Bus Transfer to EPoSS Dinner Event
- 20:00 EPoSS Dinner Event

The EPoSS Dinner Event will take place at:

Restaurant "B" 2, 3rd Septemvriou str. (Museum of Byzantine Culture) 546 39, Thessaloniki +30 2310 869 695















## 17 October 2018 (Day 2)

#### 08:30 Registration for the EPoSS Annual Forum 2018 & MNBS 2018 Welcome Coffee & Opportunity to Visit the Poster Exhibition in the Library

#### 09:00 Opening of Day 2

**Keynote: Stefan Finkbeiner**, EPoSS Chairman & CEO at Bosch Sensortec GmbH MEMS-based Smart Systems – a Core Technology for Wearable Solutions

9:15 Annual Forum Session III - Smart Systems for IoT and Wearables Room: Vergina Amphitheatre

Chair: Stefan Finkbeiner, EPoSS Chairman & CEO at Bosch Sensortec GmbH

- **1. Dimitrios Tzovaras**, *Director*, Information Technologies Institute (ITI) of CERTH IoT Large-Scale Pilots Innovation on Wearable Systems for Cutting Edge Applications
- 2. Philip Hands, The University of Edinburgh Smart Compression Garments for DVT, Lymphoedema, Dietetic Ulcers
- **3.** Marco Dal Lago, SUPSI Challenges and Opportunities in Merging Fashion with Technology

#### **Questions and discussions**

**10:00** Annual Forum Session IV - Smart Systems for Food and Agriculture *Room: Vergina Amphitheatre* 

Topic: State of the art of R&I initiatives, challenges and ideas to move forward

Chair: Luis Fonseca, CNM-CSIC

- 1. Grigorios Chatzikostas, BioSense Institute (BIOS) Internet of Food and Farm H2020
- 2. Iason Kastanis, CSEM SA Machine Learning Using Satellite Imaging for Agriculture and Forestry
- **3. Tobias Leiting**, FIR at RWTH Aachen University Smart-Farming-World: Interplay of Smart Services and Systems to Support Potato Harvest

#### **Questions and discussions**

11:00 Networking Coffee Break & Opportunity to Visit the Poster Exhibition in the Library









#### 11:30 Health & Well-Being MNBS Ecosystem Session Room: Vergina Amphitheatre

Supported by 🥻 inSSIght

**MNB** 

Topic: Address the main challenges to build the value chain and discuss opportunities for new MNBS & wearable solutions meeting Health & Well-Being market and user needs

Chairs: Eric Moore, Tyndall National Institute Claudia Gärtner, Microfluidic Chipshop

Introduction: Renzo Dal Molin, EPoSS, Smart Health and Road-Mapping

- 1. Claudia Gärtner, Microfluidic Chipshop From Microfluidic Chips to Integrated Systems and the Underlying Value Chain
- 2. **Ioanna Chouvarda**, Aristotle University of Thessaloniki Smart Point of Care Systems and Knowledge-based Medicine
- **3.** Paul Galvin, Tyndall National Institute Ensuring Both Clinical Utility and Commercial Opportunity for the New Generation of Connected multi-KET Healthtech Systems

#### 13:00 Networking Lunch & Opportunity to Visit the Poster Exhibition in the Library

#### 14:00 MNBS Project Session - Part I Room: Vergina Amphitheatre

Chairs: Andreas Lymberis, European Commission Petra Weiler, VDI/VDE Innovation + Technik GmbH

Introduction: Andreas Lymberis, MNBS, Bio-Electronics and Wearables – Setting the Scene

- 1. LIQBIOPSENS Detection of KRAS and BRAF Mutations in Colorectal Cancer Using Blood Liquid Biopsy, Belén Cortina Gil, Sistemas Genomicos
- SMARTDIAGNOS An EU Horizon 2020 Innovation Project to Develop a New Generation of Fully Integrated PCR-based Infection Diagnostics, Anders Wolff, Technical University of Denmark
- 3. SNIFFPHONE Non-invasive Disease Diagnosis Using Wearable Technologies, Jan Mitrovics, JLM Innovation GmbH
- 4. MADIA Magnetic Dlagnostic Assay for Neurodegenerative Diseases, Alessandro Surpi, CNR-ISMN
- 5. **BIOCDX** A Miniature Bio-photonics Companion Diagnostics Platform for Reliable Cancer Diagnosis and Treatment Monitoring, **Ioanna Zergioti**, ICCS Athens
- 6. ANTI-SUPERBUGS Jean Patrick Mathieu, Agency for Health Quality and Assessment of Catalonia (AQuAS)
- **7.** Is Qualitative Discrimination of Different Grades of Malignant Breast Tissue Using Bioimpedance *Feasible? Justina A. Ugwah*, Tyndall National Institute

#### 15:30 Networking Coffee Break & Opportunity to Visit the Poster Exhibition in the Library















- LoveFood2market A Portable MicroNanoBioSystem and Instrument for Ultra-tast Analysis of Pathogens in Food: Innovation from Lab Prototype to Pre-Commercial Instrument, Katerina Tsougeni, NCSR-D
- 2. PhasmaFOOD Portable Photonic Miniaturised Smart System for On-the-spot Food Quality sensing, Paraskevas Bourgos, WINGS ICT Solutions
- **3.** AllerScreening Point-of-care Device based on KETs for Diagnosis of Food Allergies, Miguel Holgado, CBGP, UPM-INIA

#### 19:10 Wrap-up & Closing Session Room: Vergina Amphitheatre

- 1. Helder Cruz, Theraproteins Lda and ECBIO-R&D in Biotechnology S.A. *Conclusions from MNBS Rapporteur*
- 2. Stefan Finkbeiner, EPoSS Chairman & CEO at Bosch Sensortec GmbH *Closing Remarks*

#### 19:30 Engagement Reception & Networking









## 18 October 2018 (Day 3)

### **Concertation & Consultation Workshop on MNBS 2018**

### 08:30 Registration for the EPoSS Annual Forum 2018 & MNBS 2018 Welcome Coffee & Opportunity to Visit the Poster Exhibition in the Library 09:00 Current Challenges & Opportunities for MNBS (Part I) Room: Vergina Amphitheatre The objective of the session is to share information and record participants' input on: Future challenges and how to overcome barriers to move MNBS & wearables from Lab (technology and prototypes) to fab and markets/customers; Opportunities for funding in 2019 and 2020 Chairs: Andreas Lymberis, European Commission Renzo Dal Molin, EPoSS Vice Chairman Nikolaos Kattavenos, European Commission 1. MNBS in H2020, Current Challenges & Opportunities for Collaboration till 2020 2. Rainer Günzler, Hahn-Schickard & EPoSS WG Healthy Living co-chair Smart Systems Enabling Delocalised Healthcare Provision Nicolas Gouze, VDI/VDE Innovation + Technik GmbH inSSIght Recommendations Addressing Current Challenges & Opportunities for MNBS 4. Stergios Logothetidis, Aristotle University of Thessaloniki Intelligent Printed Flexible Electronic Devices - Nano-Manufacturing and Bio Applications 5. Spiros Petrakis, Institute of Applied Biosciences at CERTH Engineered Biosystems for Disease Modelling and Monitoring Purposes Discussions

10:45 Networking Coffee Break & Opportunity to Visit the Poster Exhibition in the Library













#### 11:15 Future Ideas & Challenges for MNBS (Part II) Room: Vergina Amphitheatre

The objective of the session designed as a panel discussion is to share information and record participants' input on:

- Horizon Europe FP (e.g. future EU Research and Innovation policy, broader set of stakeholders, thematic areas, etc) and how to cooperate better with other programmes, initiatives, groups, bodies, e.g. ECSEL, IMI, ESTHER, Food2030, Digital Health, etc
- Opportunities, positioning and visibility of the area in the next period 2021-27

The input of all participants is important and will be considered for the preparation of the programme and specific actions of HEU.

Chairs:	Andreas Lymberis, European Commission Helder Cruz, Theraproteins Lda and ECBIO-R&D in Biotechnology S.A.
Introduction:	Andreas Lymberis, European Commission EC proposal for Horizon Europe Framework Programme

#### Panelists:

- **Paul Galvin**, Tyndall National Institute The ESTHER Initiative: Building a smart multi-KET industry driven medtech value chain
- Renzo Dal Molin, Cairdac ECSEL Health.E - Lighthouse on Healthcare
- **Ioanna Chouvarda**, Aristotle University of Thessaloniki Combining Advanced Digital Technologies with Knowledge Based Medicine for Better Healthcare
- Henne van Heeren, enablingMNT
  The Road Towards Microfluidic Standardisation
- Janny van den Eijnden-van Raaij, hDMT Towards a European roadmap for Organ-on-Chip

#### 12:45 Closing of the Concertation & Consultation Workshop on MNBS 2018

- Andreas Lymberis, European Commission
- Helder Cruz, Theraproteins Lda and ECBIO-R&D in Biotechnology S.A.
- 13:00 Lunch









#### 14:00 Workshop on Standardisation & Collaboration Room: Zefyros

### Co-organised by 💥 inSSIght

Part 1 of this 2-hour workshop on standardisation & collaboration is co-organised by inSSIght, the newly founded EPoSS Standardisation Task Force, and the DIN-Connect project "Standardisation of Smart Systems Building Blocks".

It addresses EPoSS members from research and industry and all those interested in contributing to the specification of documentation requirements for Smart Systems Building Blocks. The specification is essential for the cooperative foundry of Smart Systems, as this requires interfacing and integrating different building blocks from different organisations.

During the 90-minute workshop the current state of development of the specification will be presented, followed by world café style group work on the different parts of the documentation,

*i.e.* documentation on the technical parameters (data sheet), the design, the technology, the manufacturing process, the provider, and the quality management.

Part 2 of the workshop is co-organised by inSSIght.

It addresses the Smart Systems Integration community, and specifically those experts interested in collaboration in the field of health and wellbeing.

During a 30-minute validation exercise, experts will be asked to comment on and prioritise a sub-set of recommendations developed in the framework of the inSSIght Strategy Work Package. Since day 3 of the joint EPoSS & MNBS event is dedicated to MNBS topics, the sub-set of recommendations selected for the validation exercise are those related to the health and well-being ecosystem.

16:00 End of Event









