

# EPoSS Scientific Council

Sven Rzepka, Luis Fonseca

# WHO WE ARE



- **2013 EPoSS e.V.**  
European Technology Platform on Smart Systems Integration, is an industry-driven policy initiative, defining R&D and innovation needs as well as policy requirements related to Smart Systems Integration and integrated Micro- and Nano-Systems
- **2013 EPoSS WG Key Technology**  
Working Group on Foundational and Cross-sectional Technologies of Smart Systems
- **2021 EPoSS Scientific Council**  
Members of WG Key Technology from universities and research organizations  
**18 Member Institutions, 12 Countries**, Chairs: Sven Rzepka (DE), Luis Fonseca (ES)

# MISSION



Advising the industry-driven organization EPoSS with respect to academic issues

- Education of young engineers and scientists
- Strategic basic research fields as foundation for the mid-term and long-term targets of applied research

Support for the dissemination of new results on Smart Systems Integration Technologies

- Serving in the Core Team and/or in the Scientific Committee of SSI conference
- Active contribution to the EPoSS Annual Forum

# 1 FOUNDATIONAL TECHNOLOGIES



Sywert Brongersma,  
IMEC,  
NL

**CMS-I**



Sven Rzepka,  
Fraunhofer ENAS,  
DE

**PEM, CMS-I**



Luis Fonseca,  
IMB-CNM (CSIC),  
ES

**PEM, CMS-I**



Dag Andersson,  
RISE,  
SE

**CMS-I**

Fields of Expertise: PEM...Process, Equipment, Materials, Manufacturing; CMS-I...**Component / Module / System Integration**; SW...Embedded Software; SoS...Systems of Systems

# 1 FOUNDATIONAL TECHNOLOGIES



Evangelos Bekiaris,  
Centre for Research  
and Technology  
Hellas (CERTH), GR  
**PEM, CMS-I**



Cian Ómurchú,  
Tyndall National  
Institute, IE  
**PEM, CMS-I**



Jyrki Kiihamäki,  
VTT,  
FI  
**PEM, CMS-I**



Peter Ramm,  
Fraunhofer EMFT,  
DE  
**PEM, CMS-I**

Fields of Expertise: PEM...Process, Equipment, Materials, Manufacturing; CMS-I...**Component / Module / System Integration**; SW...Embedded Software; SoS...Systems of Systems

# 1. FOUNDATIONAL TECHNOLOGIES



Stephan Karmann,  
Hahn-Schickard-  
Gesellschaft, DE

**CMS-I**



Jesus M.  
Ruano-Lopez,  
IKERLAN, ES

**PEM, CMS-I**



Alajoki Teemu,  
VTT,  
FI

**CMS-I**



Raluca Muller,  
IMT Bucharest,  
RO

**PEM, CMS-I**

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# 2 CROSS-SECTIONAL TECHNOLOGIES



Christina Hirschl,  
Silicon Austria Lab,  
AT

**QRSC**



Erwin Schoitsch,  
AIT Austrian Institute  
of Technology, AT

**QRSC**



Dag Andersson,  
RISE,  
SE

**QRSC**



Sven Rzepka,  
Fraunhofer ENAS,  
DE

**QRSC**

Fields of Expertise:

AI-E...Artificial Intelligence, Edge, Advanced Control; C...Connectivity,  
AD...Architecture, Design; QRSC...Quality, Reliability, Safety, Security

# 3 ECS KEY APPLICATION DOMAINS



Thilo Bein,  
Fraunhofer LBF,  
DE

**M, I**



Evangelos Bekiaris,  
Centre for Research  
and Technology  
Hellas (CERTH), GR

**M**



Erwin Schoitsch,  
AIT Austrian Institute  
of Technology, AT

**M, E, I, AR**



Luis Fonseca,  
IMB-CNM (CSIC),  
ES

**E, H, AR**

Fields of Expertise: **M...Mobility, E...Energy, I...Industry, H...Health, AR...Agrifood, Resources, S...Society**



# 3 ECS KEY APPLICATION DOMAINS



Michael Scholes,  
Fraunhofer IPMS,  
DE

**H, S**



Andreas Vogl,  
SINTEF Digital,  
NO

**H, S**



Lars-Cyril Blystad,  
University of South-  
Eastern Norway, NO

**H, S**



Nimrod Talmon,  
Ben-Gurion  
University, Israel

**S**

Fields of Expertise: M...Mobility, E...Energy, I...Industry, **H...Health, AR...Agrifood, Resources, S...Society**

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Cian Ómurchú,  
Tyndall National  
Institute, IE

**AR**



Sywert Brongersma,  
IMEC,  
NL

**H, AR**



Erika Györvary,  
CSEM,  
CH

**H, AR**



Suzanne Leseq,  
CEA Leti,  
FR

**M, AR**

Fields of Expertise: M...Mobility, E...Energy, I...Industry, H...Health, AR...Agrifood, Resources, S...Society



# EPoSS SCIENTIFIC COUNCIL

