

## IEEE European Public Policy Initiative – A short Overview

*Marko Delimar*

*Chair, IEEE Ad Hoc Committee on Engagement in Europe*

*IEEE Region 8 Committee Meeting, Sydney, Australia (yes Australia, not Austria)  
10 August 2017*



# 2017 EPPI Membership

## *IEEE Ad Hoc Committee on Engagement in Europe*

- Martin Bastiaans<sup>2,3</sup>
- Gordon Day<sup>4</sup> (Corresponding Member)
- Marko Delimar<sup>3</sup> (Chair)
- Flavia Dinca
- Margaretha Eriksson<sup>1,2,3</sup>
- Jean Philippe Faure
- Christopher James<sup>4</sup>
- Konstantinos Karachalios<sup>5</sup>
- Maciej Ogorzalek<sup>1</sup>
- Axel Richter
- Marina Ruggieri<sup>1</sup>
- Stefan Sauermann
- Costas Stasopoulos<sup>2, 3</sup>
- Dirk Van Hertem

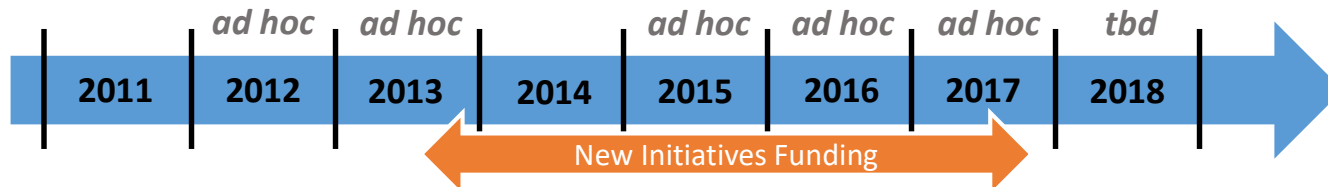
### IEEE Professional Staff

- Moira Patterson
- Patrick Russoniello
- Cheryl Sinauskas



# IEEE European Public Policy Initiative

*The history on one slide*



2011: “Cooperation with European Institutions and Agencies” identified as one of three IEEE Region 8 Primary Challenges

2012: Outreach and consultation with IEEE members and EU & EC officials; survey of members

2013: Consolidation and formation of activities and structure; obtained NIC funding

2014: Formation of Working Groups on Energy and ICT; began direct consultation with EC officials

- 1st IEEE European Summit – Internet Governance

2015: First policy documents produced by Working Groups

- 2nd IEEE European Summit – Towards Secure Green Energy

2016: Policy documents becoming routine

- 3rd IEEE European Summit – Ethics in Artificial Intelligence

2017: Continuation and growth of activities; focus on long-term sustainability



## 2017 EPPI Scope

The Ad Hoc Committee on Engagement in Europe will work to expand IEEE's engagement with and support of the European engineering community, which includes nearly 60,000 IEEE members, consistent with the strategic plan adopted by the IEEE Board of Directors I 2015. In particular, the Committee will:

1. Continue to lead and manage the IEEE European Public Policy Initiative (EPPI) to enable technologists to more easily share their concerns and enable the EU government to more easily obtain technologists' input in matters of importance in IEEE's fields of interest. Key deliverables include: Development of policy statements in various IEEE fields of interest; Expand engagement with EU officials; Organize policy summit(s) ore related event(s); Recommend plan to financially sustain EPPI after 2017
2. This Ad Hoc Committee will continue to serve as strategic advisors as the IEEE Vienna office and our presence in Brussels become refined.



# Public Policy is an Important Part of IEEE's Mission

## *IEEE Board of Directors approach*

- Public Policy activities are expanding across IEEE
  - Board has been studying since 2012
  - EPPI
  - Internet Initiative
  - Ad Hoc on Activities in Africa
  - Increasing engagement in PSPB, EAB, SA, TAB (Societies), IEEE-USA
- Board-approved priority in 2013 (one of four)
- Board actions in 2015
  - Established principles to guide IEEE Public Policy Activities (Bylaw I-311)
  - Established processes and authorities for development and approval of policy documents (IEEE Policies, Section 15)
  - Established new Global Public Policy Committee (IEEE Bylaw I-305.8)



# What are the Benefits to European IEEE Members

- Help shape public policy in Europe for the benefit of the profession and humanity
  - Papers, consultations, & events provide critical information on technology considerations to the policy community
- Participate in peer-selected volunteer WG and policy-related events
  - Invited to respond to periodic open calls to join WGs
  - Deepen knowledge of public policy issues affecting our profession, our employers, and our families
  - Engage with community of European IEEE members interested in public policy
- Planned refinements for 2017 include providing opt-in mechanisms
  - To review and comment on WG output
  - To receive Brussels policy updates (email news bulletins; webinars)



# What are the Key Components of EPPI?

- Brussels representation for IEEE Members in EU/EFTA
  - Awareness of issues and opportunities to influence
  - Engagement and access to offices and officials
  - Sponsorships and related activities
- Policy Working Groups (Energy and ICT)
  - Development of EPPI position statements and policy communications
  - Direct engagement with EC officials (WG meetings)
- Events for direct engagement between members and EU officials
  - IEEE European Signature Events Annual summits
    - 2014 Internet Governance
    - 2015 Towards Secure Green Energy
    - 2016 Artificial Intelligence and Ethics
    - 2017 Technology for Health
  - Numerous other IEEE and non-IEEE events

Funding by assessment  
starting in 2018





# Policy Working Groups

*European IEEE members are able to participate in peer-selected volunteer groups that develop public policy position statements and may engage in or organize policy-related events.*





# Policy Working Groups



- Policy WG:
  - Two active groups: Energy and ICT
  - 12 members per group
  - Members from EU & EFTA countries can apply and are selected in a peer-review process
  - Two calls for members were conducted
    - ~200 applications received for each
    - Applications were peer-reviewed and open seats filled with new members
- Oversight:
  - IEEE Ad Hoc Committee on Engagement in Europe
- Secretariat and program management support:
  - IEEE Corporate Activities staff
  - Interel (Government Affairs firm located in Brussels)
  - IEEE Vienna Office support

# IEEE EPPI Working Group on Energy

- Jef Beerten, Chair
- Julian Barquin
- Matthias Berger
- Jean-Marc Biasse
- Gérard-André Capolino
- Antonio J.M. Cardoso
- Wilfried Fischer
- Brian Kirby
- Ana Cigaran Romero
- Giovanni Spagnuolo
- Dirk Van Hertem
- Michal Wierzbowski



# IEEE EPPI Working Group on Energy

- 2017 Policy Roadmap developed
- Policy Statements
- Approved by IEEE Global Public Policy Committee (GPPC) and published:
  - “DC Electricity Distribution in the European Union”
  - “Smart Cities - Reshaping the European Urban Landscape”
- Approved by WG and EPPI, and at GPPC approval stage:
  - “Electrification of Transportation in European Union”
  - “HVDC Grids for the European Transmission System”
  - “Vision on Sustainable Power and Energy Systems”
- Under development (expected completion Q3/Q4 2017):
  - “Heating and Cooling”
  - “Energy Storage”

## IEEE EPPI Working Group on Energy

- In-person meeting held on 20 February 2017 in Brussels at Interel Office; secured policy speakers, including:
  - ✓ Mathias Reddmann, Policy and Project Officer, Unit Smart Cities & Sustainability, DG CONNECT
  - ✓ Svetoslav Mihaylov, Policy Officer, Unit Smart Mobility and Living, DG CONNECT
- WG panel session at IEEE ISGT Europe 2017: Enabling the Transition to a More Electric World
  - ✓ “Challenges for Energy Policy in Europe: A Technologists’ Approach”
- Continued significant output, including collaborating on a joint Working Group paper on Smart Cities

# IEEE EPPI Working Group on ICT

- Anders Mynster, Chair
- Bhaskar Choubey
- Paulo de Sousa
- Jean-Luc Dormoy
- Javier Ferrandis
- Petia Georgieva
- Angel Hernandez-Bravo
- Marco Ajmone Marsan
- LF Pau
- Vasilis Pavlidis
- Béatrice Schubert
- Jarno Tanskanen



## IEEE EPPI Working Group on ICT

- 2017 Policy Roadmap developed
- Policy Statements
- Approved by IEEE Global Public Policy Committee (GPPC) and published:
  - “Action Plan for Electronics Industry In Europe”
  - “Network Neutrality”
- Approved by WG and EPPI, and at GPPC approval stage:
  - “Artificial Intelligence”
- Under development (expected completion Q3/Q4 2017):
  - “Spectrum Management”
  - “ICT for Health Promotion and Disease Prevention”
  - “Cybersecurity or a Digitally Resilient Europe”

# IEEE EPPI Working Group on ICT

- Public Speakers/Engagements
  - ✓ Jean-Luc Dormoy at the European Economic and Social Committee (EESC) “Artificial Intelligence & Society” on 1 February 2017 in Brussels
  - ✓ Pétia Georgieva at the Knowledge4Innovation/IEEE SA (Global Initiative on Ethics in Autonomous Systems and AI) Dinner Debate: “Civil Law rules on Robotics: Prioritizing Human Well-Being in the Age of Artificial Intelligence” on 11 April 2017 at the European Parliament in Brussels
- On-going coordination with IEEE-USA + IEEE Internet Initiative
  - ✓ Provided feedback on “Network Neutrality as Technology Advances” white paper
- Continued significant output including a joint Working Group paper on Smart Cities



# IEEE Summits

*Bringing together leading technologists, scientists, engineers, and policy makers to discuss critical issues related to technology and public policy in Europe.*





## IEEE Summits – Internet Governance (2014), Towards Secure Green Energy (2015), Artificial Intelligence and Ethics (2016)



# 2017 IEEE Summit on Technology for Health



The 2017 IEEE Summit on Technology for Health: Transforming Healthcare and Wellbeing, will address the future of healthcare and wellbeing in relation to innovative technologies, such as smart and bio-sensing wearables and implantables. It aims at providing an expert platform to bring together a high-level audience of policymakers, industry and technology leaders, and expert patients to discuss the future of technology-enabled healthcare and wellbeing, as well as how the European policy landscape can help to fully leverage the opportunities created by technological advances, while mitigating the challenges they present.





# Publications





# Public Policy Position Statements

- Some of the nearly 60,000 IEEE members in Europe are individually involved in European Union (EU) public affairs and in EU-funded research programs, where topics like education, energy, and Information and Communication Technologies (ICT) policies are discussed. However, as individuals they are not able to have the impact or visibility that they could have working through an international organization such as IEEE.
- The EPPI allows members to develop and promote coordinated and consensus-based public policy position statements on these topics, and it gives IEEE a voice in Europe.
- The EPPI seeks to empower IEEE members in Europe to have influence in Europe, as appropriate for Europe. This is performed by a combination of activities, such as the production of relevant technical statements and white papers. The topics have been selected based on the relevance to the current EU legislative process, the expertise in the group, and the potential impact on the topic.

## • Public policy position statements

- [Action Plan for Electronics Industry in Europe - 28 June 2017 \(PDF, 511 KB\)](#)

The European Commission and industry have taken a set of impactful initiatives specifically addressing the electronics sector at large. The IEEE EPPI, while supporting these initiatives, makes 6 key focused recommendations. They deal with advanced capabilities by semiconductor foundries and circuit design companies, high performance computing compilers and tools, tighter collaboration schemes for embedded electronics/ computing and communications with vehicle designers, increased focus on energy savings in the wireless 5G context, open source personalized data mining, and inclusion of standardization initiatives inside R&D programs.

- [DC Electricity Distribution in the European Union: An opportunity for energy efficiency in Europe - 27 March 2017 \(PDF, 545 KB\)](#)

Ubiquitous electronics (including computers, communications, and entertainment systems), the adoption of LED lighting, and the emergence of electric vehicles are prominent among trends that are increasing the demand for DC power. In homes and businesses, this demand is usually met using AC to DC converters for each product or application; typically, these converters are inefficient while operating, and often consume power when not in service. Reducing these inefficiencies in supply, while taking advantage of the fact that most of the electric power provided by renewable sources is generated as DC power, represents a major opportunity to address European goals and aspirations.

- [Smart Cities - Reshaping the European urban landscape - 15 September 2016 \(PDF, 47 KB\)](#)

The IEEE EPPI aims with this paper to contribute to the public debate and encourage the development of Smart Cities. The IEEE EPPI believes that the European Commission (EC) should foster development of European Smart Cities by leveraging the research and technology know-how of its Member-States. At the same time, commercial and regulatory obstacles that could impede strategic developments and realization of wider economic and environmental benefits to its citizens should be removed.

- [Network Neutrality - 26 July 2016 \(PDF, 207 KB\)](#)

Network Neutrality is a non-discriminatory principle for Internet traffic. It has been



- **The Parliament Magazine, in collaboration with IEEE European Public Policy Initiative, has published four special supplements on technology and sustainable development.**
- The Parliament Magazine is a bi-weekly EU magazine, based mainly upon contributions from policy makers.
- In the last parliamentary session, more than 200 members of the European Parliament and 19 of the 27 European Commissioners wrote specifically for the magazine, providing in-depth policy coverage and analysis.
- In addition, 25,000 printed versions are distributed to senior EU officers and policy makers. The 50,000 subscribers to the Parliament Magazine newsletter are also informed of each release.





# Looking into the Future...



## Additional Opportunities

- Partnerships and membership growth, new engagement opportunities
- In Europe, IEEE is still seen as a slightly US-centric organisation, typically for academics; however seen as an unbiased source of profound technical information
- EPPI has attracted interest from:
  - European policy community, especially officials dealing with technology policy (including regulatory bodies)
  - Industry and industry associations interested in technology policy
  - NGOs, pan-European organisations, and national organisations interested in technology policy
- In Europe, IEEE is building new bridges and creating new opportunities
  - Reaching out to audiences previously unaware of our existence

## Coming Soon...

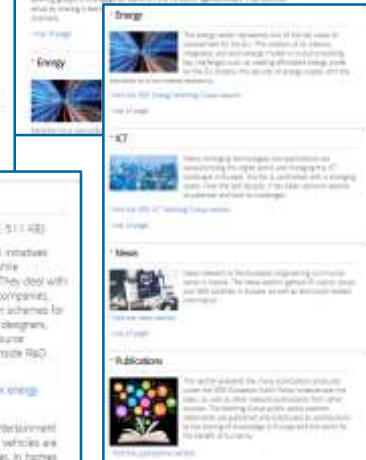
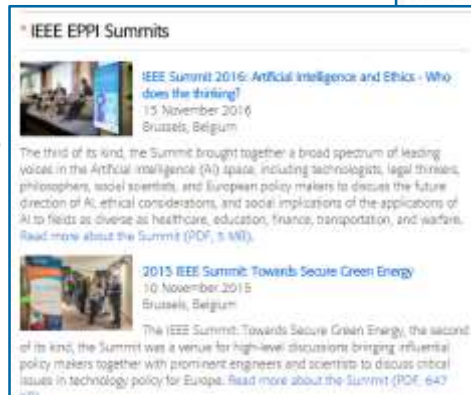
- IEEE Ad Hoc Committee on Organization Support for Public Policy Activities to recommend organizational home for EPPI by November 2017
- Governing Documents creation and structure of EPPI as a Committee of the IEEE
  - ✓ Review by IEEE Governance Committee, approval by IEEE BoD in November 2017
- Member experience enhancements, including policy training webinars, mechanisms for review of WG policy papers and news bulletins, and Call for Working Group members participation
- Planning for 2017 “IEEE Summit on Technology for Health” underway
- Increased direct engagement with EU officials
- Continued engagement with other units of IEEE



# IEEE European Public Policy Web Portal

- Features links to:
  - IEEE European Public Policy Initiative
  - IEEE EPPI Committee
  - IEEE EPPI Working Group on Energy
  - IEEE EPPI Working Group on ICT
  - News
  - Publications
  - Events

[www.ieee.org/eppi](http://www.ieee.org/eppi)





# IEEE Ad Hoc on Organizational Support for Public Policy Activities

*Jim Jefferies, 2017 IEEE President-elect*  
*June 2017, New Brunswick, NJ, USA*



# IEEE Ad Hoc Committee on Organizational Support for Public Policy Activities

## Committee Members:

- Jim Jefferies (Chair)
- Chris Brantley (Professional Staff)
- Gordon Day
- Marko Delimar
- Donna Hourican (Professional Staff)
- Bruce Kraemer
- Mary Ellen Randall
- Marina Ruggieri
- Christian Schmid
- Barry Shoop



## Committee Charter

- Recommend to the Board of Directors, not later than November 2017, an organizational home for the European Public Policy Initiative (EPPI)
- Recommendation should address both volunteer and staff involvement, including reporting and financial management
- Should be applicable, with consideration of the appropriate best practices of IEEE-USA, to IEEE Public Policy Entities that emerge subsequently and lack an obvious organizational home, other multinational entities or entities that span multiple major Organizational Units

# Public Policy Activities Across IEEE\*

Corporate/IEEE BoD	Sustainable Energy for All, International Standardization, Open/Public Access, Universal Access to Broadband/Internet, China Regulations on Foreign Entities
Educational Activities	Accreditation (national/regional), Regulation of Engineering “Credentials”, K-12 STEM Education “opportunities”
<b>Home?</b> IEEE European Public Policy Initiative	S&T Advice to Gov’t, Energy, Information & Computing Technology, Net Neutrality, Smart Cities
MGA	Section-level (U.S.) non-compete laws, inventor rights, exceptions to engineering licensure, tax on computer services, UCITA, support for IEEE-USA national issues
PSPB	Open/Public Access Policies (by nation, worldwide), U.S. Federal agency adoption/use of CHORUS as open access repository
Standards Association	802 WGs, Internet Initiative, AI Ethical Design, OpenStand, P1547 WG – interconnection standards and U.S. policy on distributed generation, Federal Electronic voting
Technical Activities	Tech Ethics, EPEAT, EMBS & NIH funding, Dig Once, Industrial Ecology, Cybersecurity, Quadrennial Energy Review, Workforce issues , spectrum issues , US NIH Budget
IEEE-USA	Workforce/Immigration, R&D/Innovation, Energy, Intellectual Property, Licensure & Registration, Space, Transportation & Autonomous Vehicles, K-12 STEM Education/Literacy

# Emerging Areas of Public Policy

- IEEE Consultants Network
  - Licensure issues, tax on services
- IEEE Women in Engineering
  - Leveraging Title IX mandate
- Africa
  - “Advisor to Nations” pilot
  - Remote Sensing/GIS in S. Africa
  - Engineering capacity building
  - Electrification
- China
  - Standardization
- India
  - Accreditation requirements
- South America
  - EFTA - “Engineering for the Americas”
  - Regional/national accreditation

# Proposal for Interim Solution

*Seeking feedback to proceed with formal motion in November*

- Establish EPPI as a Committee of IEEE, reporting to the Board of Directors for the period 2018-2020
- Draft appropriate governing documents for EPPI as a Committee of IEEE for Governance Committee review and Board approval in November
  - Includes committee membership criteria, charter
  - Includes staffing plan centered around IEEE Technology Centre, Vienna
- GPPC continues to provide assistance, support, coordination, and oversight to EPPI in accordance with Policy 15
- Provides for BoD evaluation in 2020 for public policy activities

## Next steps

- Incorporate BoD feedback into Ad Hoc proposal for interim solution
- Ad Hoc to return to the BoD in November with formal motion for approval with appropriate governing documents and staffing plan centered around IEEE Technology Centre, Vienna
- Final report will include a further look at policy evolution alternatives



# Discussion





**Thank you!**

# Appendix

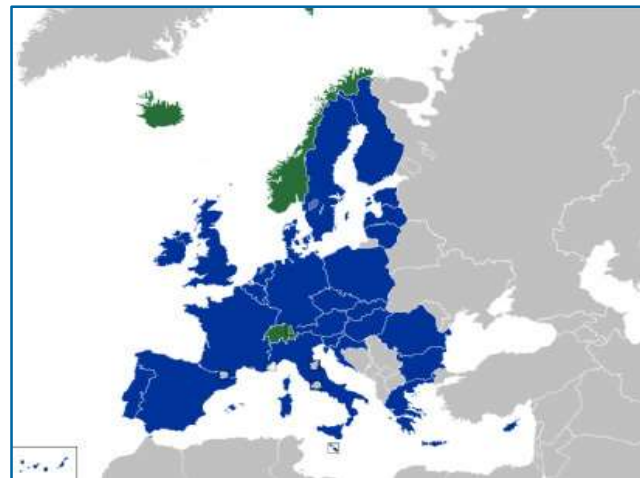
# List of EU/EFTA Countries\*

## EU Member States:

- Austria
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Malta
- Netherlands
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden
- United Kingdom

## EFTA Member States:

- Iceland
- Liechtenstein
- Norway
- Switzerland



## EU and EFTA Sections

- Austria
- Benelux
- Bulgaria
- Croatia
- Cyprus
- Czechoslovakia
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Iceland
- Italy
- Latvia
- Lithuania
- Malta
- Norway
- Poland
- Portugal
- Romania
- Slovenia
- Spain
- Sweden
- Switzerland
- UK and Ireland

