



2nd UNI-SET Energy Clustering Event

Universities in the Energy Transition: Focus on Energy Efficient Systems and Nuclear Safety

*Hosted by
Politecnico di Torino (POLITO)
Torino, Italy*

26-28 September 2016

#UNISSET2016IT

Programme

Monday 26 September - Valentino Castle (Viale Mattioli, 39)

18.30-19.00	Registration
19.00-21.00	Welcome Reception —Ms Paola Pisano, Assessor for Innovation, City of Turin —Prof. Marco Gilli, Rector, Politecnico di Torino —Prof. Torbjørn Digernes, Chair of the UNI-SET Steering Committee; former Rector, Norwegian University of Science and Technology

Tuesday 27 September – Politecnico di Torino: Corso Duca (Corso Duca degli Abruzzi, 24)

8.30-9.00	Registration
9.00-9.45	Welcome Addressees and Keynote —Prof. Enrico Macii, Vice-Rector for Research and Innovation, Politecnico di Torino —Prof. Rolf Tarrach, President, European University Association Keynote Speech —Ms Andreea Strachinescu, Head of Unit for New energy technologies, innovation and clean coal, DG Energy, European Commission



9.45-11.00	<p>Plenary Session</p> <p>Presentation of the UNI-SET Project and the Conference Objectives</p> <p>—Prof. Johan Driesen, KU Leuven; Education Director, KIC InnoEnergy; UNI-SET Project Leader</p> <p>—Dr Lidia Borrell-Damian, Director for Research & Innovation, EUA; UNI-SET Project Coordinator</p> <p>Towards a Roadmap for Universities in Energy</p> <p>—Prof. Torbjørn Digernes, Chair of the UNI-SET Steering Committee; NTNU</p> <p>Politecnico di Torino's Strategic Approach to the Energy Challenge</p> <p>—Prof. Enrico Macii, Vice-Rector for Research and Innovation, Politecnico di Torino</p> <p>Chair: Prof. Torbjørn Digernes, Chair of the UNI-SET Steering Committee; former Rector, Norwegian University of Science and Technology</p>
11.00-11.30	<p>Coffee break</p>
11.30-13.00	<p>Plenary Session</p> <p>Research, Innovation and Education in Energy Efficiency and Nuclear Safety</p> <p>During the second plenary session, three keynote speakers will present main research and education challenges for universities in the fields of energy efficiency in buildings, energy efficiency in industry and nuclear safety.</p> <p>“Energy Efficiency in Buildings: perspectives, trends and challenges”</p> <p>—Prof. Marco Perino, Professor, Politecnico di Torino; Chair of the International Association of Building Physics (IABP)</p> <p>“Research, Innovation and Education for Energy Efficiency in Industry: Beyond Energy Bean Counting”</p> <p>—Prof. Michael Narodoslawsky, Deputy Head, Institute of Process and Particle Engineering, TU Graz; European Sustainable Energy Innovation Alliance (eseia); UNI-SET Steering Committee</p> <p>“Research and Education in the field of Nuclear Safety”</p> <p>— Dr Michael Bluck, Director, Centre for Nuclear Engineering, Imperial College London</p> <p>Chair: Dr Lidia Borrell-Damian, Director for Research & Innovation, EUA; UNI-SET Project Coordinator</p>
13.00	<p>Change of location (Move to ‘Cittadella Politecnica’)</p>
13.00-14.00	<p>Lunch</p>

14.00-15.30 **Parallel sessions: Good practices in research, innovation and education**

1) Setting Energy Efficiency Benchmarks and Targets – the Contribution of Universities

<i>Passive House POLITEHNICA</i>	Prof. Vladimir Tanasiev, University Politehnica of Bucharest
<i>Energy efficiency indices for large building stocks</i>	Mr Dario Cottafava, University of Turin
<i>Good practices in research, innovation and education - Setting Energy Efficiency Benchmarks and Target</i>	Prof. Armin Hafner, Norwegian University of Science and Technology (NTNU)

Chair: Prof. Paulien Herder, TU Delft, UNI-SET Steering Committee
Rapporteur: Prof. Josep Bordonau, UPC BarcelonaTech

2) Living Labs and Smart Metering for Increasing Energy Efficiency

<i>Social networking between the campus and the city</i>	Dr Giacomo Pettenati, University of Turin
<i>Results achieved from work done in Technical University – Gabrovo in energy efficient systems</i>	Prof. Svilen Rachev, Technical University of Gabrovo
<i>Decoupling human comfort from energy consumption</i>	Prof. Dario Padovan, University of Turin

Chair: Prof. Johan Driesen, KU Leuven; Education Director, KIC InnoEnergy; UNI-SET Project Leader
Rapporteur: Dr Justin Chiu, KTH Royal Institute of Technology

3) Sustainable and Energy Efficient Campuses – Involving students, Researchers and Employees

<i>Sustainable and energy efficient campus management – integration of education, research and participation</i>	Ms Berit Edlich, Technical University of Dresden
<i>SoLaRS – Social sciences Laboratory for Research on Sustainable Energy</i>	Mr Osman Arrobbio, University of Turin
<i>An interactive approach inside the university: how to feed sustainability on social networks and users' proposals</i>	Mr Federico Dattila, University of Turin

Chair: Prof. Mihaela Albu, MicroDERLab Chair, University Politehnica of Bucharest; UNI-SET Steering Committee
Rapporteur: Dr Lidia Borrell-Damian, Director for Research & Innovation, EUA

4) Cooperation for Energy Efficiency – Universities, Public Bodies and Others

Lifelong learning in energy efficiency field – cooperation between University Politehnica of Bucharest and Romanian Regulatory Authority for Energy

Prof. Eduard Minciuc, University Politehnica of Bucharest

Integrated spatial and energy planning – new approaches for energy strategy development

Mr Georg Neugebauer, University of Natural Resources and Life Sciences, Vienna

Cooperation of Georgian State University and San Diego State University: New Opportunities for Academic Development and Internationalisation in STEM

Dr Nino Chubinidze, Ivane Javakhishvili Tbilisi State University

Chair: Dr John Smith, European University Association, UNI-SET Steering Committee
Rapporteur: Dr Andrzej Adamski, Jagiellonian University

5) Multidisciplinary Research & Education for Energy Efficiency

BioEnergyTrain Curricula

Prof. Michael Narodoslowsky, TU Graz

BOKU Energy Cluster – Networking Energy Research capacities within BOKU University

Prof. Gernot Stoeglehner, University of Natural Resources and Life Sciences, Vienna

Chair: Prof. Marco Masoero, DENERG, Politecnico di Torino
Rapporteur: Ms Borana Taraj, EUA

6) Multidisciplinary Research & Education for Nuclear Safety & Energy

Securing the human component of nuclear safety

Prof. Ionut Purica, Senior Researcher, Institute for Economic Forecasting, Romanian Academy; Executive Director, Advisory Centre for Energy and Environment

Developing Synergies in Nuclear Safety Culture

Prof. Daniel Dupleac, University Politehnica of Bucharest

Chair: Prof. Massimo Zucchetti, Politecnico di Torino
Rapporteur: Mr Lennart Stoy, EUA

15.30-16.00

Coffee break

16.00-17.30

Clustering Sessions

1) Energy Efficiency in Buildings & Communities

ICT for Energy Efficient Buildings: an IoT perspective Prof. Andrea Acquaviva, Politecnico di Torino

Energy Efficiency in Buildings and Communities: Interaction between different energy sectors for active demand control Prof. Birgitte Bak-Jensen, Aalborg University

Energy Efficiency in Buildings and Communities: Interactions between users and buildings for comfort and energy savings Prof. Stefano Corgnati, Politecnico di Torino; President, REHVA

The culture of energy efficiency and the gaps in engineering knowledge Prof. Knut Holtan Sørensen, Norwegian University of Science and Technology (NTNU)

Chair: Prof. Giovanni Fracastoro, Professor and Energy Manager, Energy Department, Politecnico di Torino; UNI-SET Steering Committee

Rapporteur: Dr John Smith, EUA

2) Energy Efficiency in Industry

Energy Efficiency in Industry of Georgia: Energy Policy and Compliance with EU Directives in the Field of EE Prof. Otar Zumburidze, Georgian Technical University

Asja Group's approach to a green, energy-efficient future Dr Stefano Re Fiorentin, Research and Innovation Officer, Asja Group

Electrical Engineering @ POLITO Prof. Maurizio Repetto, Politecnico di Torino

Chair: Prof. Fabrice Lemoine, University of Lorraine, UNI-SET Steering Committee

Rapporteur: Ms Borana Taraj, EUA

3) Nuclear Safety

Overview of EERA JPNM Generation IV - Materials and links to Universities Dr Karl-Fredrik Nilsson, DG JRC "Nuclear Safety & Security"; Joint Programme Sub-Coordinator, European Energy Research Alliance (EERA)

Improvement of PWR safety by means of improved controlling the fuel cladding fracture due to damage accumulation Prof. Sergii Pelykh, Odessa National Polytechnic University

Chair: Prof. Andreas Class, Institute for Nuclear and Energy Technologies, Karlsruhe Institute of Technology

Rapporteur: Mr Lennart Stoy, EUA

20.00-22.00	<p>Dinner</p> <p><i>Palazzo Madama Piazza Castello 10122 Torino</i></p>
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Wednesday 28 September – Politecnico di Torino: Cittadella Politecnica (Via Pier Carlo Boggio, 71/A)

9.00-9.30	<p>Short summary on the outcomes of first day parallel sessions</p>
9.30-10.30	<p>Outlook sessions “Topics of the future”</p> <p>a) <i>Balancing Energy Efficient Systems and Renewable Energy Sources: Collaboration or Competition?</i></p> <p>—Mr Petter E. Røkke, Research Director, SINTEF Energy Research; Joint Programme Coordinator, European Energy Research Alliance (EERA)</p> <p>—Prof. Giovanni Fracastoro, Professor and Energy Manager, Energy Department, Politecnico di Torino; UNI-SET Steering Committee</p> <p>Chair: Prof. Torsten Fransson, Education Director, KIC InnoEnergy; UNI-SET Steering Committee</p> <p>Rapporteur: Ms Borana Taraj, EUA</p> <p>b) <i>University Strategies for Research and Education in the Field of Energy – Green Campuses and Institutional Research Programmes</i></p> <p>— Prof. Patrizia Lombardi, Head of the Interuniversity Department of Urban and Regional Studies and Planning, Politecnico di Torino</p> <p>—Dr Eeva-Leena Rautama, Manager, Energy Efficiency Programme, Aalto University</p> <p>Chair: Prof. Mihaela Albu, MicroDERLab Chair, University Politehnica of Bucharest; UNI-SET Steering Committee</p> <p>Rapporteur: Prof. Fabrice Lemoine, University of Lorraine</p> <p>c) <i>Nuclear Safety Research and Education in Europe – What Role for European Universities?</i></p> <p>—Prof. Walter Ambrosini, Educational Head at CIRTEN; University of Pisa</p> <p>—Prof. Andreas Class, Institute for Nuclear and Energy Technologies, Karlsruhe Institute of Technology</p> <p>Chair: Prof. Andrea Carpignano, Politecnico di Torino</p> <p>Rapporteur: Mr Lennart Stoy, EUA</p>
10.30-11.00	<p>Coffee break</p>

11.00-11.45	<p>Plenary Session Short summary on the outcomes of the Parallel-Plenaries</p> <p><i>Chairs/Rapporteurs</i></p> <p>Discussion and validation of the Roadmap for Universities in Energy</p> <p><i>Prof. Torbjørn Digernes, Dr Lidia Borrell-Damian</i></p>
11.45-13.00	<p>Roundtable discussion</p> <p>“The future of Energy Research & Innovation in the Context of the Energy Union and SET-Plan”</p> <p>Opening presentation</p> <p>—<i>Dr Philippe Tulkens, Deputy Head of Unit: 1. Strategy, Dir G — Energy, DG Research and Innovation, European Commission</i></p> <p>Panellists</p> <p>—<i>Dr Michael Bluck, Director, Centre for Nuclear Engineering, Imperial College London</i></p> <p>—<i>Dr Giovanni De Santi, Director for Competences, Joint Research Centre, European Commission</i></p> <p>—<i>Prof. Torsten Fransson, Education Director, KIC InnoEnergy; UNI-SET Steering Committee</i></p> <p>—<i>Dr Nicolas Katcharov, CEO, EDF Fenice</i></p> <p>—<i>Mr Carlo Papa, Director, Enel Foundation & Strategic Studies Center</i></p> <p>—<i>Dr Philippe Tulkens, Deputy Head of Unit: 1. Strategy, Dir G — Energy, DG Research and Innovation, European Commission</i></p> <p>Chair: <i>Dr Lidia Borrell-Damian, Director for Research & Innovation, EUA; UNI-SET Project Coordinator</i></p> <p>Rapporteur: <i>Ms Borana Taraj, EUA</i></p>
13.00-13.15	<p>Closing ceremony</p> <p>—<i>Prof. Marco Gilli, Rector, Politecnico di Torino</i></p> <p>Announcement of the 3rd UNI-SET Energy Clustering Event in University Politehnica of Bucharest, Romania</p> <p>—<i>Mihnea Costoiu, Rector, University Politehnica of Bucharest</i></p>
13.15-13.45	<p>Farewell lunch</p>