

Energy for the Future Society

18th Baltic Conference on Intellectual Cooperation, Latvian Academy of Sciences
Riga, Latvia
April 20-21, 2023

PROGRAMME APRIL 20

- 10.30 Registration, Portrait Hall, 3rd floor, Latvian Academy of Sciences
- 11.00–12.00 Welcome by the Presidents of the participating Academies of Sciences **IVARS KALVIŅŠ** (Latvia), **JURAS BANYS** (Lithuania), **TARMO SOOMERE** (Estonia), **MATS GYLLENBERG** (Finland), **EDWIN KREUZER** (Germany); **DIDZIS SOLIMS** (Latvenergo, AS)
- 12.00–13.00 Lunch
- 13.00–15.45 **PLENARY SESSION**
- 13.00–13.30 Prof. **WILLIAM GILLET**T, EASAC, Director of Energy Programme: *Science-based advice on policies to reduce greenhouse gas emissions from the EU energy sector to net zero by 2050*
- 13.30–14.00 Prof. **PETER LUND**, Aalto University, Finland: *Deep decarbonisation of energy systems through advanced systems solutions*
- 14.00–14.30 Prof. **ENN LUST**, University of Tartu, Estonian AS: *Development of hydrogen and fuel cell technologies in Estonia*
- 14.30–15.00 Dr. **ALGIRDAS KALIATKA**, Lithuanian Energy Institute, Chief Research Associate, Lithuanian AS: *Research in Lithuanian Energy Institute for the Energy Sector Development*
- 15.00–15.30 Prof. **ANDRIS PIEBALGS**, European University, EU Commissioner for Energy (2004–2009): *Are pipelines and ships an 'either or' infrastructure decision for Europe's hydrogen economy?*
- 15.30–15.45 Questions
- 15.45–16.10 Coffee break
- 16.10–18.00 **SESSION I: ENERGY HARVESTING AND SOURCES**
- 16.10–16.30 Dr. **GEDIMINAS STANKŪNAS**, Lithuanian Energy Institute, Chief Research Associate, Lithuanian AS: *How close are we to obtaining nuclear fusion's 'limitless' energy?*
- 16.30–16.50 Prof. **MAARJA GROSSBERG-KUUSK**, Tallinn University of Technology, Estonian Young Academy of Sciences, President: *Development of next generation photovoltaic technologies in Estonia*
- 16.50–17.10 Dr. **ANDRIS ŠTERNBERGS**, Institute of Solid State Physics, University of Latvia, Latvian AS: *Challenging scientific issues for sustainable future energetics raised by the energy crisis*
- 17.10–17.30 Dr. **VIDAS LEKAVIČIUS**, Lithuanian Energy Institute, Chief Research Associate: *Energy Poverty in the Baltic States*
- 17.30–18.00 Discussion



PROGRAMME APRIL 21

9.00–10.45 **SESSION II: ENERGY STORAGE, TRANSMISSION AND SECURE ENERGY SUPPLY**

9.00–9.20 Prof. **DETLEF SCHULZ**, Helmut Schmidt University, Academy of Sciences and Humanities in Hamburg: *Hydrogen-based Smart Energy System – A way out of the energy crisis?*

9.20–9.40 Prof. **ANNA MUTULE**, Smart Grid Research Centre, Institute of Physical Energetics, Latvia: *The evolution towards smart grids: drivers and potential impacts*

9.40–10.00 Prof. **ANDRIS ŠUTKA**, Riga Technical University, Latvian AS: *Innovative amphoteric decoupled water electrolysis – a simple concept to split water and produce H₂ with high efficiency in a cheap and safe way*

10.00–10.20 Prof. **JAREK KURNITSKI**, Tallinn University of Technology, Aalto University, Estonian AS: *Towards zero-emission building stock*

10.20–10.45 Discussion

10.45–11.10 Coffee break

11.10–12.30 **SESSION III: EFFICIENT AND SUSTAINABLE ENERGY USE**

11.10–11.30 Prof. **MIKAEL COLLAN**, VATT Institute for Economic Research, Finland : *The Finnish price of electricity transfer dilemma – pricing driven by the regulation model*

11.30–11.50 Dr. **MODRIS GREITĀNS**, Institute of Electronics and Computer sciences, Managing Director, Latvian AS: *Energy efficiency: artificial versus human intelligence*

11.50–12.10 Dr. **RALFAS LUKOŠEVIČIUS**, Ltd. Addeco, Director, Lithuania: *Development of the biomethane sector in Lithuania*

12.10–12.30 Prof. **DMITRI VINNIKOV**, Tallinn University of Technology, Estonian AS: *Future-Proof Power Electronic Systems for Residential Micro grids*

12.30–13.30 Discussion, conference conclusions

13.30–14.00 Awarding ceremony of the Medals of the Baltic Academies of Sciences

14.00–14.45 Lunch

14.30–c. 15.50 Dr. Sonja **GRÄBER-MAGOCSI**, Hamburg Institute for Advanced Study (HIAS): *HIAS Research Fellowships*. Presentation and discussion

15.30–c. 16.30 Meeting of the Presidents of the Baltic Academies of Sciences

15.30–c. 16.30 Meeting of the Young Scientists

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