



Hungarian – Norwegian Bilateral Cooperation Research Conference & Knowledge Exchange

Agenda

15-16 February 2018, Budapest

15 February

- 09:00 – 09:30 Registration
- 09:30 – 09:40 **Welcome**
His Excellency Olav Berstad, Ambassador of Norway
- 09:40 – 10:10 **Welcome & research system and areas of research excellence in Hungary**
Professor József Pálinkás, President of National Research, Development and Innovation Office
- 10:10 – 10:30 **Research system and areas of research excellence in Norway**
Ms. Kristin Danielsen, International Director, Research Council of Norway
- 10:30 – 10:50 **A case of transnational coevolution of coevolution research**
Professor Nils Christian Stenseth, University of Oslo
Professor Eörs Szathmáry, Eötvös Loránd University
- 10:50 – 11:20 **Coffee Break**
- 11:20 – 11:40 **ELI-ALPS: Research infrastructure and research collaboration prospects** Professor Zsolt Fülöp, HAS Institute for Nuclear Research
- 11:40 – 12:00 **ECCSEL: Research infrastructure and research collaboration prospects**
Mr. Volker Röhling, ECCSEL secretariat
- 12:00 – 12:20 **Future research collaboration funding opportunities, Update on bilateral and multilateral research funding opportunities (Norway Grants 2014-21, Horizon 2020)**
Ms. Szonja Csuzdi, Head of Department, National Research, Development and Innovation Office
- 12:20 – 13:30 **Walking Lunch & Poster Session**

Enabling technologies

13:30 - 14:00 **Introduction by co-moderators**

Enabling Technologies in Hungary

Prof. Gábor Stépán - Faculty of Mechanical Engineering, Budapest University of Technology and Economics

Enabling Technologies in Norway

Yngve Foss, special adviser - International department, The Research Council of Norway

14:00 - 14:10 **Industry 4.0 at MTA SZTAKI - research, development, and education**

Zsolt Kemény - Hungarian Academy of Sciences, Institute for Computer Science and Control (MTA SZTAKI)

14:10 - 14:20 **Digitalization of Manufacturing SMEs - Norwegian perspective**

Gabor Sziebig - UiT The Arctic University of Norway

14:20 - 14:30 **Virtual Reality, Simulation and Serious Games Supporting Training for Emergency Management**

Ilona Heldal - Department of Computing, Mathematics, and Physics, Western Norway University of Applied Sciences

14:30 - 14:40 **Smart safety management**

István Szőke - Institute for Energy Technology

14:40 - 14:50 **Digitalization, automation and robots: what does the future hold for humans?**

Alexandra Fernandes - Institute for Energy Technology

14:50 - 15:00 **Chatbots + Public Sector = Better Services**

Marita Skjuve - SINTEF Digital

Coffee Break

15:50 - 16:00 **Connecting points among critical infrastructures, challenges and solutions of interdependence**

György Szegedi - BHE Bonn Hungary Electronics Ltd.

16:00 - 16:10 **Untangling the complexity of network communications for next generation applications**

María Isabel Sánchez Bueno - Simula Research Laboratory

16:10 - 16:20 **Energy system model for day-ahead optimization and peak shaving**

Jonathan Fagerström - Institute for Energy Technology (IFE)

16:20 - 16:30 **The nuclear physics program at the Oslo Cyclotron Laboratory**

Sunniva Siem - University of Oslo

16:30 - 16:40 **Metamaterial based electromagnetic devices**

Zsolt Szabó - Budapest University of Technology and Economics

16:40 - 16:50 **Tensor network factorization and tailored coupled cluster method in quantum chemistry**

Örs Legeza - Department of Theoretical Solid State Physics, Institute for Solid State Physics and Optics, Wigner Research Centre for Physics

16:50 - 17:00 **Size-dependent catalytic activity of monodispersed nickel nanoparticles for the hydrolytic dehydrogenation of ammonia borane**

Zhixin Yu - Department of Energy and Petroleum Engineering, University of Stavanger

Environment

- 13:30 - 14:00 **Introduction by co-moderators**
Environment in Hungary
Prof. László Buday - Director, Institute of Enzymology Research Centre of Natural Sciences
Environment in Norway
Kristin Danielsen - International Director, The Research Council of Norway
- 14:00 - 14:15 **Improving Resilience of Transport Surface Infrastructure (Rail and Road) against Natural Hazards and Climate Change**
Guri Natalie Jordbakke - The Institute of Transport Economics
- 14:15 - 14:30 **Wastewater biodegradation linked to bioenergy generation using genomic approaches**
Gergely Maróti - Biological Research Center, Hungarian Academy of Sciences
- 14:30 - 14:45 **Application of petroleum green-technology for the characterization of chloroethylenes in soil samples from Czech Republic: Tracer pre-qualification and Field Test**
Christian Dye - Institute for Energy Technology (IFE)
- 14:45 - 15:00 **Challenges of reducing soil erosion and improving water quality in a changing environment under Nordic conditions**
Csilla Farkas - Norwegian Institute of Bioeconomy Research (NIBIO)
- 15:00 - 15:15 **Crop production systems in changing climate: research on impacts, responses, and options of adaptation, developing decision support tools**
Gábor Illés - National Agricultural Research and Innovation Centre
- Coffee Break**
- 15:45 - 16:00 **GRACE: A model for integration of knowledge on climate change and policies**
Taoyuan Wei - CICERO Center for International Climate Research
- 16:00 - 16:15 **Air quality and climate impact on built structures and cultural heritage – measurements and modelling**
Terje Grøntoft - NILU-Norwegian Institute for Air Research
- 16:15 - 16:30 **Improving Biomass Productivity, Co2 Uptake and Pest/Pathogen Resistance of Short Rotation Energy Willow and Poplar by Polyploidy and Heterosis: Genome Optimization**
Ferhan Ayaydin - Biological Research Centre, Hungarian Academy of Sciences
- 16:30 - 16:45 **Methodological development of riverine habitat assessment tools on an interdisciplinary basis**
Sándor Baranya - Budapest University of Technology and Economics
- 16:45 - 17:00 **Multi-species fisheries in food web simulations**
Ferenc Jordán - Danube Research Institute, Centre for Ecological Research, Hungarian Academy of Sciences

Health

- 13:30 - 14:00 **Introduction by co-moderators**
Health in Hungary
Prof. Gábor L. Kovács - Chair, Szentagothai Research Centre, University of Pécs
Health in Norway
Aleksandra Haugstad- Department Director, Division for Health and Society, The Research Council of Norway
- 14:00 - 14:10 **Novel antibiotics from symbiotic peptides**
Éva Kondorosi - Institute of Plant Biology, Biological Research Centre
- 14:10 - 14:20 **A massively parallelized, systematic method for efficient prediction of allosteric and prerequisite binding drug binding**
Csaba Hetényi - University of Pécs
- 14:20 - 14:30 **Exploiting changes in the microbiome in cancer detection**
Peter Bay - University of Debrecen / MTA-DE LEndület Laboratory of Cell Metabolism
- 14:30 - 14:40 **Cancer exosome miRNA biomarkers from serum – in silico veritas**
Judit Pongracz - University of Pecs
- 14:40 - 14:50 **Identification of novel therapeutic targets in hematological malignancies using next generation sequencing**
Csaba Bödör - Semmelweis University, Department of Pathology and Experimental Cancer Research
- 14:50 - 15:00 **Multiple knock-out mouse models can provide key novel insights into dynamics of genome integrity**
Beáta Vértessy - Department of Applied Biotechnology & Food Science, Budapest University of Technology and Economy
- 15:00 - 15:10 **Human induced pluripotent stem cell derived 2D and 3D in vitro neuronal networks: a technology platform for modeling Neurodegenerative diseases and developmental neurotoxicology**
Andras Dinnyes - BioTalentum Ltd, and Szent Istvan University
- 15:10 - 15:20 **The graph of our mind**
Vince Grolmusz - Eötvös University
- Coffee Break**
- 15:50 - 16:00 **Blood-brain barrier models in chip devices**
Maria Deli - Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences
- 16:00 - 16:10 **Single Cell Sequencing of Prefrontal Cortex Neurons: Cell specific transcriptome differences, novel drug targets and molecular mechanisms of cognitive disorders.**
Gabor Juhasz - CRU Hungary Ltd, Uni. Eötvös Loránd
- 16:10 - 16:20 **Research opportunities at the Oslo Cyclotron Laboratory**
Andreas Gørgen - University of Oslo
- 16:20 - 16:30 **Particle detector development for medical applications**
Gergely Gábor Barnaföldi - Institute for Particle and Nuclear Physics, Wigner Research Centre for Physics
- 16:30 - 16:40 **Redox homeostasis in the endoplasmic reticulum**
Gabor Banhegyi - Semmelweis University
- 16:40 - 16:50 **Emerging Threats at the Human-Animal-Environment Interface: The Advantages of a One Health Approach**
Carlos Das Neves - Norwegian Veterinary Institute
- 16:50 - 17:00 **How can we assess and anticipate the infection risk with emerging tick-borne zoonotic bacteria in big cities?**
Gábor Földvári - Department of Parasitology and Zoology, University of Veterinary Medicine, Budapest

Society

- 13:30 - 14:00 **Introduction by co-moderators**
Society related research in Hungary
Prof. Zsolt Demetrovics, - Dean, Faculty of Education and Psychology, Eötvös Loránd University
- Society related research in Norway**
Bjørn Tore Kjellemo, Department Director, Division for Health and Society – Society session, The Research Council of Norway
- 14:00 - 14:15 **Social Sciences from a Multidisciplinary Perspective: Our Cooperation Skills Offering at the HAS Centre of Social Sciences**
Tamás Rudas - Centre for Social Sciences of the Hungarian Academy of Sciences (HAS)
- 14:15 - 14:30 **Navigating the City: Architectural Communication and the Readable City**
Borbala Jasz - Department of Sociology and Communication, Budapest University of Technology and Economics
- 14:30 - 14:45 **Macro-regional identities and politics in Norway and Hungary**
Péter Balogh - Institute for Regional Studies, CERS-HAS
- 14:45 - 15:00 **Inequalities in comparative perspective: presentation of Tarki Social Research Institute and a proposal for a joint Hungarian-Norwegian social research incubation project**
István György Tóth - Tárki Social Research Institute
- 15:00 - 15:15 **Women's issues and gender perspectives**
L Ma - Nordic Women's University
- Coffee Break**
- 15:45 - 16:00 **Rediscovering ancient lives from papyri: introducing papyrology**
Ágnes Tóthné Mihálykó - University of Oslo
- 16:00 - 16:15 **ALM-institutions as an infrastructure for the public sphere in a digital age: A comparative project between Norway, Hungary, Denmark, Sweden, Switzerland and Germany**
Ragnar Audunson - OsloMet - Oslo Metropolitan University
- 16:15 - 16:30 **Memory of the front in South Vertes Mountain, Hungary**
Istvan Santha - institute of ethnology
- 16:30 - 16:45 **Research on secure 5G for IoT platforms**
Boning Feng - OsloMet - Oslo Metropolitan University
- 16:45 - 17:00 **Cybersecurity as a Horizontal Issue In Public Service**
Csaba Krasznay - National University of Public Service

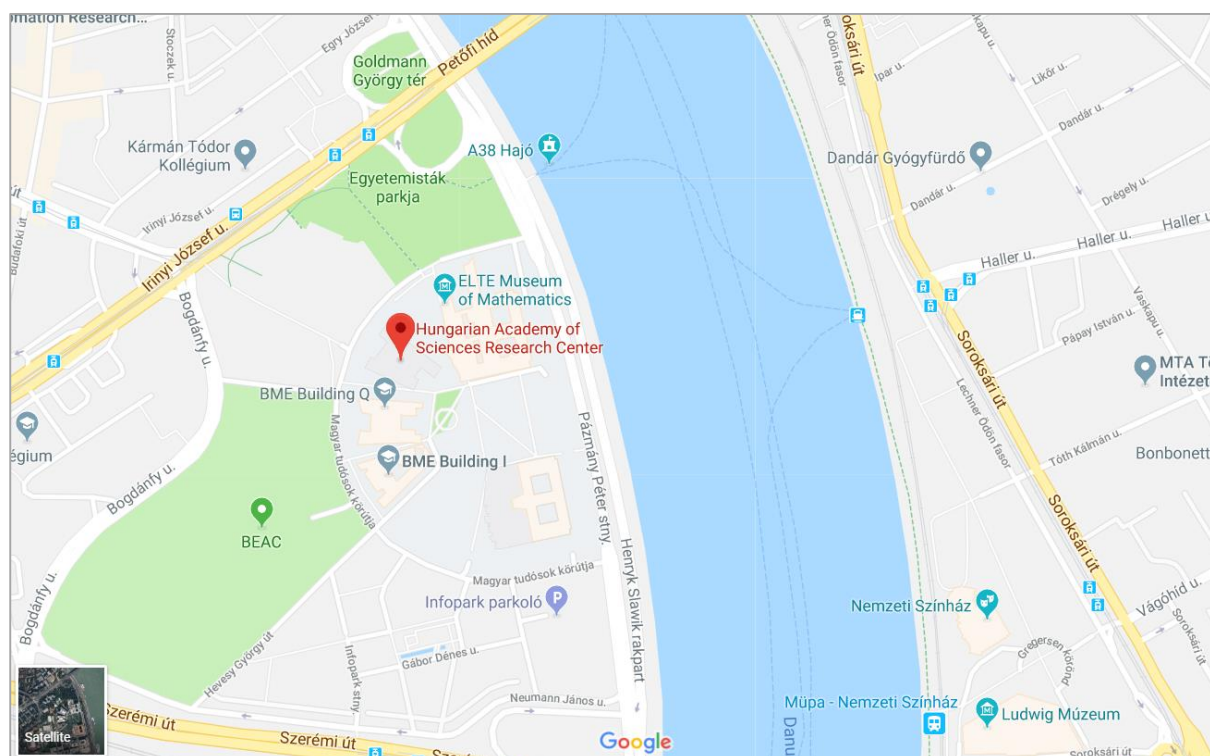
Venue

Hungarian Academy of Sciences, Research Centre for Natural Sciences

Magyar Tudományos Akadémia, Természettudományi Kutatóközpont

Magyar tudósok körútja 2.

1117 Budapest, Hungary



The Hungarian – Norwegian Research Conference & Knowledge Exchange project (contract HU01-0030-C1) benefits from a € 180.000 grant from Norway through the Norway Grants. The aim of the project is to enhance collaboration and exchange knowledge between research organisations in Hungary and Norway.