

AGENDA

Thursday, 25th February 2021

<p>10:00 – 10:05 CET 09:00 – 09:05 GMT Welcome & Opening remarks</p>		<p>Gábor Németh is Head of the Cabinet for International Affairs at the Eötvös Loránd Research Network (ELKH) Secretariat.</p>
<p>10:05 – 10:20 CET 09:05 – 09:20 GMT Topic: Overview & 'How to do interdisciplinarity' - the CAST & Tyndall report for ELKH</p>		<p>Asher Minns is Executive Director of the Tyndall Centre. He is a science communicator who specializes in knowledge transfer of climate change and environmental change research to audiences outside of academia.</p>
<p>10:20 – 10:30 CET 09:20 – 09:30 GMT Topic: Introduction to CAST & interdisciplinary social sciences</p>		<p>Professor Lorraine Whitmarsh is Director of CAST, an environmental psychologist specialising in perceptions and behaviour in relation to climate change, energy and transport.</p>
<p>10:30 – 10:45 CET 09:30 – 09:45 GMT Topic: Overview of the Hungarian Research network system and efforts in climate sustainability</p>		<p>Professor Eörs Szathmáry is Director-General of the Centre for Ecological Research (ÖK) which is the largest ecology institute in Hungary. He is dedicated to being an advisor to the nation on issues related to biodiversity and ecosystems.</p>
<p>10:45 – 10:50 CET 09:45 – 09:50 GMT Topic: Transformations to sustainable lifestyles, sustainable diets, as well as deliberative research methods</p>		<p>Dr. Caroline Verfuëth is the lead of the early career research networks across CAST and the Tyndall Centre at Cardiff University (UK).</p>
<p>10:50 – 10:55 CET 09:50 – 09:55 GMT Topic: The inter- and transdisciplinary aspects of research on algal hydrogen production</p>		<p>Dr. Szilvia Z. Tóth is a plant biologist, studying photosynthesis and hydrogen gas production by green algae. Szilvia is a Group Leader at the Biological Research Centre (BRC) Institute of Plant Biology. The current focus is to research across human health and illness; environmental stressors and the adaptation of plants and algae.</p>

<p>10:55 – 11:00 CET 09:55 – 10:00 GMT Topic: Transdisciplinary expertise framework for assessing climate change impacts and promoting sustainable agricultural production</p>		<p>Dr. Nándor Fodor is a Senior Research Associate and Head of the Crop Production Department. As the winner of a non-refundable grant project. He has established an Interdisciplinary Research Centre for Excellence for Climate Adaptive and Sustainable Agriculture in cooperation with internationally renowned researchers.</p>
<p>11:00 – 11:20 CET 10:00 – 10:20 GMT Panel Discussion Question: „What, in your experience, are the challenges and opportunities in conducting interdisciplinary, impactful and international collaborative climate change research?”</p>	<p>UK Panelists:</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="651 680 807 837">  <p>Professor Robert Nicholls Tyndall Centre for Climate Change Research</p> </div> <div data-bbox="951 680 1107 837">  <p>Professor Lorraine Whitmarsh Centre for Climate Change and Social Transformations (CAST)</p> </div> <div data-bbox="1248 680 1404 837">  <p>Dr. Caroline Verfuërth Centre for Climate Change and Social Transformations (CAST)</p> </div> </div> <p>HU Panelists:</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="651 1093 807 1249">  <p>Professor Eörs Szathmáry Centre for Ecological Research (ÖK)</p> </div> <div data-bbox="951 1093 1107 1249">  <p>Dr. Szilvia Z. Tóth Biological Research Centre (BRC)</p> </div> <div data-bbox="1248 1093 1404 1249">  <p>Dr. Nándor Fodor Centre for Agricultural Research (ATK)</p> </div> </div>	
<p>11:20 – 11:30 (11:45) CET 10:20 – 10:30 (10:45) GMT Q & A session; Closing remarks</p>	<p><i>Note: when asking questions, please use the built-in chat function of the Zoom system</i></p>	

PARTNERS



About the Tyndall Centre

The Tyndall Centre was founded in 2000 to conduct cutting edge, interdisciplinary research, and provide a conduit between scientists and policymakers. With nearly 200 members ranging from PhD researchers to Professors, the Tyndall Centre represents a substantial body of the UK's climate change expertise from across the scientific, engineering, social science, and economic communities. The Tyndall Centre has significantly advanced the fundamental analysis of emission reduction from all major energy sectors, the understanding of climate impacts, risks, and adaptation options, the public perceptions of climate change, and the governance of climate negotiations and policymaking.

About the Centre for Climate Change & Social Transformations (CAST)

The core partners of the Centre for Climate Change and Social Transformations (CAST) include Cardiff University, University of East Anglia, University of Manchester, University of York, and Climate Outreach. CAST is a global hub for understanding the systemic and society-wide transformations that are required to address climate change.

We research and develop the social transformations needed to produce a low-carbon and sustainable society; at the core of our work is a fundamental question of enormous social significance: How can we as a society live differently – and better – in ways that meet the urgent need for rapid and far-reaching emission reductions? CAST is in partnership between Cardiff University, University of Manchester, University of York, University of East Anglia, University of Bath, and Oxford-based charity Climate Outreach and funded by the ESRC.

About the ELKH Centre for Ecological Research (ÖK)

The main task of the Ecological Centre is to conduct high-level research on biodiversity and ecosystems, including forest, grassland, lake, and river ecosystems. The Centre focuses on ecological research, but, a lot of its work is related to the effects of agriculture and forestry on biodiversity, to the traditional knowledge of ecology and to interdisciplinary topics.

As the Ecological Centre is the largest Hungarian institution dealing with ecology, it feels responsible for the task of advising the nation on questions related to biodiversity and nature, and support the development of Hungarian ecology. The Ecological Centre's Institutes include: the Balaton Limnological Institute; the Institute of Ecology and Botany; the Institute of Evolution and the Danube Research Institute.

About the ELKH Centre for Agricultural Research (ATK)

The goal of the Centre for Agricultural Research (ATK) unifies excellence in research, authenticity in science and a commitment to society. The institute network is set out to produce values for both national and international successes in Hungarian and universal science. Building on national research traditions, being part of the only full-time research institute network in Hungary, our primary goal is to play a fundamental role in promoting the foundation of valuable scientific achievements based on highly promising discovery research.

The Centre for Agricultural Research Institutes carries out basic and applied research and development in the field of agricultural sciences along with disseminating scientific and professional knowledge. The Institutes include: the Institute for Veterinary Medical Research, the Agricultural Institute (Crop Production, Plant Breeding and Agronomy), the Plant Protection Institute, the Institute for Soil Science and Agricultural Chemistry.

The Interdisciplinary Research Centre of Excellence for Climate Adaptive and Sustainable Agriculture developed a state-of-the-art experimental platform and an integrated biogeochemical modelling framework (AgroMo), which provides services (data mart, decision support tools) for the stakeholders of the agricultural sector at various temporal and spatial scales. AgroMo is designed for promoting sustainable agricultural production as well as for mitigating potential climate change and environmental risks.

About the ELKH Szeged Biological Research Centre (BRC)

The Szeged Biological Research Centre (BRC) is part of the Eötvös Loránd Research Network. At the Biological Research Centre's foundation, in 1973, the guiding principle was to create an institution for multidisciplinary research. Accordingly, four independent research institutes were established: the institutes of Biophysics, Biochemistry, Genetics, and Plant



Biology. The current focus of the Szeged Biological Research Centre (BRC) is to research across human health and illness; environmental stressors and the adaptation of plants and algae.

Szilvia Z. Tóth and her research group have developed a novel protocol enabling sustained hydrogen gas production by green algae. The method is environmentally friendly, involves CO₂ mitigation and suitable to be used amid sunlight intensity. As a by-product, a large amount of algal biomass is generated that has the potential to be used in downstream processes. The research group employs biophysical, molecular biological and analytical tools, and process engineering. Currently, the main challenges arise from the transdisciplinary aspect of their work and to find engineers and industrial partners to upscale their laboratory-proven hydrogen production protocol.