The 14th China Bioindustry Convention

Parallel Session: ANSO International Forum on Green Technology

1. Background

The Alliance of International Science Organizations (ANSO) is a non-profit and non-government international scientific organization founded in 2018 by 37 international science and education organizations around the world. It is committed to promoting shared sustainable development and the advancement of the UN Sustainable Development Goals (SDGs) through promoting and implementing concrete international cooperative initiatives in Science, Technology, Innovation and Capacity Building.

Representing ANSO Governing Board, the Chinese Academy of Sciences (CAS) and Thailand's National Science and Technology Development Agency (NSTDA) join forces to organize ANSO International Forum for Green Technology to promote the concept of green technology and its contribution to SDGs. This ANSO event will be set up as one session of the 14th China Bioindustry Convention held on 10-12 June 2021 in Guangzhou.

2. About this Session

In recent decades, the rapid socio-economic growth in developing countries is mainly driven by increasing intensive industry, agriculture and construction through massive consumption of natural resources. As one of the consequences of the rapid development, the environment degradation along with air-water-land pollutions in these countries becomes more and more crucial challenge for national and regional policy makers, while public health and food safety issues are concerned very much by publics and governments. The concept of circular economy and innovative biotechnology are promoted and implemented in many countries to cope with the overuse of resources and environment pollutions. Merging green technologies are demonstrated and applied to industry, agriculture and construction fields to reduce-reuse-recycle (3R) the natural resources.

In the same time, climate change is bringing more unprecedented changes to our planet such as extreme weathers, geohyrological hazards, food and water scarcity, biodiversity loses and epidemics, etc., which will threaten the sustainable socio-economic development and human wellbeing seriously. Its impact is enormous and global, climate change has become a pressing issue and call for an urgent action. By now, a certain consensus has been achieved via Paris Agreement, UN SDGs, and other cooperation mechanisms. To control the global temperature, increase less than 2.0 degree by 2100, most countries have promised to get net-zero emission in the middle of this century. In near future, there will be significant surging demands of green technology to meet the challenges of renewable energy and decarbonization, especially by rapid economic growth countries and regions.

As the heart of the use of green technology is to maintain a sustainable environmental balance, everyone needs to think about it and act, and global joint efforts are requested. This session will present the action taken by each sector to help the world fight against climate change. The goal of this session is to encourage participants to think globally, act locally and expand collaboration.

3. Date and Time

11th June 2021; 10:00 – 17:00 hrs. (Beijing Time),
9.00 – 16.00 hrs. (Bangkok Time)

4. Video Conferencing Apps

Joining the conference via WebEx Event

https://meeting-nstda.webex.com/meeting-nstda/onstage/g.php?MTID=e0a6da106094c11d5c9ebcc5d848f6468

SCAN ME

Live Streaming for Audience
Bilibili: https://live.bilibili.com/22476145

5. Key Issues of the Meeting

1) Circular economy for green environment
2) Clean energy for low carbon society
3) Biotechnology for green environment
4) International collaboration for green society

6. Agenda of the Webinar

Beijing Time (GMT+8)	Bangkok Time (GMT+7)	Activities and Description
Chair: *Lily Eurwilaichitr*, Vice President of NSTDA		
10:00 – 10:20	**9:00 – 9:20**	**Opening Remarks** *Narong Sirilertworakul*, President of NSTDA *BAI Chunli*, President of ANSO
Session 1: Circular Economy and Biotechnology		
10:20 – 10:40	**9:20 – 9:40**	**Green Recycling Technologies Towards Carbon Neutrality** *ZHANG Suojiang*, Director, Institute of Process Engineering (IPE), Chinese Academy of Sciences (CAS); Academician of CAS
10:40 – 11:00	**9:40 – 10:00**	**Circular Economy (A Part of BCG Economy Model) in Thailand** *Thumrongrut Mungcharoen*, Senior Advisor, NSTDA
11:00 – 11:20	**10:00 – 10:20**	**Circular Economy and Green Agenda Towards Shared Prosperity Vision 2030** *Raslan Ahmad*, Senior Vice President, Malaysian Industry-Government Group for High Technology (MIGHT), Ministry of Science, Technology and Innovation of Malaysia; Fellow of Academy Science of Malaysia
11:20 – 11:40	**10:20 – 10:40**	**Future Scenarios and Nature-based Solutions Toward Green and Sustainable Society** *SAITO Osamu*, Principal Policy Researcher, Institute for Global Environmental Strategies (IGES)
11:40 – 12:00	**10:40 – 11:00**	**From Hard Pollen to Soft Matter: A New Perspective on Sustainable Materials Innovation from Natural Resources** *CHO Nam-Joon*, MRS-Singapore Chair Professor, School of Materials Science and Engineering, Nanyang Technological University (NTU)
12:00 – 14:00	**11:00 – 13:00**	**Lunch Break**

Session 2: Clean Technology: Towards Net Zero Emission		
Chair: *CAO Jinghua*, Executive Director of ANSO Secretariat		
14:00 – 14:20	**13:00 – 13:20**	**Development Status and Technical Progress of CCUS under Carbon Neutralization** *WEI Wei*, Vice President, Shanghai Advanced Research Institute (SARI), Chinese Academy of Sciences (CAS)
14:20 – 14:40	**13:20 – 13:40**	**Roles of Renewable Energy in Achieving Carbon Neutral: Research Direction and Necessity in Policy Support** *Kampanart Silva*, Researcher, Renewable Energy and Energy Efficiency Research Team, Energy Innovation Research Group, National Energy Technology Center, NSTDA
14:40 – 15:00	**13:40 – 14:00**	**Systems-embedded Clean Energy Pathways Supporting Accelerated Decarbonization – Early Experiences** *Peter Lund*, Professor, Advanced Energy Systems, Aalto University, Finland
15:00 – 15:20	**14:00 – 14:20**	**Photocatalytic CO_2 Conversion and Water Splitting Towards Artificial Photosynthesis** *WANG Zheng*, Professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
15:20 – 15:40	**14:20 – 14:40**	**Coffee Break**

Session 3: AI for Green Society & Creative Economy		
Chair: *LEE Haiwon*, Professor, Hanyang University, ANSO Special Advisor		
15:40 – 16:00	**14:40 – 15:00**	**Cainiao Green Packaging Program** *YUAN Liu*, Leader, Packaging Department, Cainiao
16:00 – 16:20	**15:00 – 15:20**	**Cultural and Biodiversity Collection and Utilization Platform.** *Thepchai Supnithi*, Principal Researcher and Director of Artificial Intelligence Research Group, National Electronics and Computer Technology Center (NECTEC)
16:20 – 16:40	**15:20 – 15:40**	**Huawei Empowering the Protection of Green Home** LIANG Dezhi, Senior Solution Architect of Huawei Cloud EI
16:40 – 17:00	**15:40 – 16:00**	**Closing Remarks** *CAO Jinghua*, Executive Director of ANSO Secretariat *Lily Eurwilaichitr*, Vice President of NSTDA

7. Organizers

National Science and Technology Development Agency (NSTDA)
Chinese Academy of Sciences (CAS)
Alliance of International Science Organizations (ANSO)

8. Organizing Committee

Co-Chairs:

Dr. Narong Sirilertworakul, President of NSTDA
Prof. Chunli Bai, President of ANSO

Members:

Dr. Lily Eurwilaichitr, Vice President, NSTDA
Prof. Ailikun, Assistant Executive Director, ANSO Secretariat
Ms. Sronkanok Tangjaijit, Senior International Relations Officer, NSTDA

9. Contact

Ms. Natnicha Phintuyothin, International Relations Officer, NSTDA
Email: natnicha.phi@nstda.or.th

Ms. Jingyuan Feng, ANSO Secretariat
Email: jingyuan.feng@anso.org.cn