The Nexus Chemistry – Climate Change:
Understanding Trends, Risk and Opportunities

Session 2: Innovation in and from the chemical sector as a key driver for low-carbon solutions

Date: Wednesday, October 6th, 2021

Time: 12:30 - 14:00 (CEST)

Platform: Virtual Event – MS Teams

Moderator: Dr. Reinhard Joas, CS3

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CONTEXT: The Chemical Industry with all related value chains has enormous potentials for contributing to climate protection. The transformation of the chemical industry and related value chains with a focus on sustainable, low-emission processes and products is a huge challenge that requires enormous efforts and high levels of innovation, considering innovation as a driver of low-carbon solutions.

OBJECTIVE: To show options for low-emission development of the chemical industry and discuss the conditions necessary for stimulating innovation and achieving multiplication to market-scale.

GUIDING QUESTIONS:

- What are promising technical options for greenhouse gas emission reduction in the chemical industry?
- Which type of framework conditions and incentives are needed for multiplicating innovative solutions for climate protection and sustainable chemistry to market-scale?

Agenda

Time		Speaker
12:30	Welcome & Introduction	**Dr. Detlef Schreiber,** *Head CAPCI, Deutsche Gesellschaft für Internationale Zusammenarbeit - GIZ*
12:40	Innovation highlights: Technology options for a low-carbon future in the chemical industry	**Dr. Ulf Auerbach,** *Evonik, ICCA*
12:55	From innovative ideas to market scale: The example of green cooling	**Bernhard Siegele,** *Head of Programme PROKLIMA, GIZ*
13:10	First round of questions and comments	

13:20	How to stimulate innovation for emission reduction. Experiences from the International Sustainable Chemistry Collaborative Centre (ISC_3) **Part 1: Possible pathways towards defossilization of the chemical industry and their technological implications. Promoting innovative start-ups** **Part 2: Future-oriented low-carbon technologies in the light of sustainable chemistry and a circular economy**	**Dr. Alexis Bazzanella** *Director Innovation Hub ISC_3* *Project Management & Controlling* *Department Head DECHEMA* **Prof. Klaus Kümmerer** *Director Research and Education Hub ISC_3* *Director of Sustainable Chemistry, Leuphana University*
13:40	Moderated discussion; guiding questions: *1. What are promising technical options for greenhouse gas emission reduction in the chemical industry?* *2. Which type of framework conditions and incentives are needed for scaling up innovative solutions for climate protection and sustainable chemistry to market-scale?* *3. What are the success factors for GHG emission reduction with special regards to the chemical industry in developing countries and emerging economies?*	**Dr. Reinhard Joas,** CS3
13:55	Closing remarks	**Dr. Detlef Schreiber,** *Head CAPCI*