

SUSTAINABLE CHEMISTRY

2015: the way forward

24. + 25. September 2015 | Berlin



Bundesministerium
für Umwelt, Naturschutz,
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OUTLINE

This international conference aims to support Sustainable Chemistry and its role as a key element of the future development of societies.

Numerous applications of Sustainable Chemistry have already demonstrated that new approaches can be developed to protect human health and the environment while at the same time generating economic benefits.

However, in an increasingly globalised economy, it is insufficient to develop Sustainable Chemistry only on regional or national levels. Most of the impacts on human health and the environment occur at a global scale – and often require mitigation approaches on global level. Current use patterns of materials and energy are unsustainable and rapidly depleting our planet's available resources. The increasing consumption of goods is leading to more waste and pollution, overstraining the world's ecosystem.

- These issues will be discussed in a high-level panel in conjunction with the 2020 goals of the Strategic Approach to the International Chemicals Management.
- Also, a concept for Sustainable Chemistry will be presented and discussed with international experts and decision makers in order to exchange views on opportunities, barriers and needs.
- Discussions will be stirred by panel discussions and elaborated in break-out groups addressing emerging topics in sustainable chemicals management and production, illustrated by best-of examples.

The conference is jointly organised by the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and the German Federal Environment Agency (UBA) in cooperation with the Green Chemistry Commerce Council (GC3) and the Deutsche Bundesstiftung Umwelt (DBU). Mediapartner is Chemical Watch.

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PRESIDENCY

Maria Krautzberger President of the German Federal Environment Agency

OPENING KEYNOTE

Jochen Flasbarth Secretary of State; German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

POLICY SESSION

Barbara Cunningham Deputy Office Director in EPA's Office of Pollution Prevention and Toxics (OPPT), US Environment Protection Agency (EPA)

Kęstutis Sadauskas Director of Green Economy Directorate in DG Environment; EU Commission

Alexander Nies Deputy Director-General, Chemical Safety, Environment and Health, German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Hubert Mandery Director General of the European Chemical Industry Council (CEFIC)

Kerstin Stendahl United Nations Deputy Executive Secretary for the Basel, Rotterdam and Stockholm Conventions (UN BRS)

Anne-Sofie Andersson Director of the International Chemical Secretariat (ChemSec)

CHIEF MODERATOR

Paul Hohnen Sustainability Strategies

SESSION MODERATORS

Heinz Leuenberger United Nations Industrial Development Organization (UNIDO)

Joel Tickner Green Chemistry Commerce Council (GC3) / UMass Lowell

Jutta Emig German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Klaus Kümmerer Leuphana University

Jutta Klasen German Federal Environment Agency (UBA)

SUSTAINABLE CHEMISTRY 2015: the way forward

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BREAK-OUT GROUP MODERATORS

Avtar Matharu	University of York
Vassilios Karavezyris	German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)
Reinhard Joas	BiPRO GmbH
Tess Fennelly	T Fennelly & Associates
Dirk Bunke	Öko-Institute e.V. / Freiburg University of Education

ORGANIZING COMMITTEE

Joel Tickner (chair)	Green Chemistry Commerce Council (GC3) / UMass Lowell
Hans-Christian Stolzenberg	German Federal Environment Agency
Klaus Kümmerer	Leuphana University
Vassilios Karavezyris	German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
Reinhard Joas	BiPRO GmbH
Paul Hohnen	Sustainability Strategies
Maximilian Hempel	Deutsche Bundesstiftung Umwelt
John Frazier	Nike, Inc.
Jutta Emig	German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
Paul Ellis	Kingfisher Group
Dirk Bunke	Öko-Institut e.V. / Freiburg University of Education
Christopher Blum	German Federal Environment Agency



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AGENDA

Thursday, September 24th

9:00am - 9.30am

REGISTRATION & COFFEE

9:30am – 10.00am

Welcome and Setting the Scene

Jochen Flasbarth, Secretary of State, German Environment Ministry

Moderator: **Paul Hohnen**, Sustainability Strategies

10:00am – 10:45am

Session 1: The business and economic case for sustainable chemistry: global trends, drivers, and barriers

Moderator: **Paul Hohnen**, Sustainability Strategies

Panelists:

Alexander Keller, Roland Berger Strategy Consultants GmbH

Alastair MacGregor, TruCost

10:45am – 12.30pm

Session 2: High Level Panel:

Sustainability and Chemicals - The Policy Context

Moderator: **Paul Hohnen**, Sustainability Strategies

Panelists:

Barbara Cunningham, US Environment Protection Agency

Kęstutis Sadauskas, EU Commission

Alexander Nies, German Environment Ministry

Hubert Mandery, CEFIC

Kerstin Stendahl, UNEP BRS

Anne-Sofie Andersson, ChemSec

12:30pm – 1:30pm

LUNCH



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SUSTAINABLE CHEMISTRY 2015: the way forward

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1:30pm – 2:45pm

Session 3: Growing sustainable chemistry – needs and opportunities

Moderator: **Heinz Leuenberger**, UNIDO

Panelists:

Müfit Bahadır, University of Braunschweig

Dirk Bunke, Öko-Institut / University of Freiburg & **Anke Joas**, BiPRO

Henning Friege, N³ Nachhaltigkeitsberatung & **Alexis Bazzanella**, DECHEMA
for the International Sustainable Chemistry Collaborative Centre (ISC³)

Joel Tickner, GC3 / UMass Lowell

2:45pm – 4:15pm

Session 4: Growing sustainable chemistry through the supply chain (part 1): challenges and solutions

Moderator: **Heinz Leuenberger**, UNIDO

Panelists:

Tess Fennelly, T Fennelly & Associates: **Introduction**

Malene Teller Blume, COOP

Thomas Michaelis, COVESTRO AG

4:15pm – 4:45pm

COFFEE BREAK

4:45pm – 6.00pm

Session 4: Growing sustainable chemistry through the supply chain (part 2): sector-specific challenges - break-out groups:

A) Per- und polyfluorinated chemicals in the textile sector

- moderated by Reinhard Joas, BiPRO
- Impulse statement by Kirsten Brodde, Greenpeace

B) Chemicals in the building sector

- moderated by Tess Fennelly, T Fennelly & Associates
- Impulse statement by Lothar Lissner, Kooperationsstelle Hamburg

C) Challenges for the electro- and electronic industry

- moderated by Dirk Bunke, Öko-Institut / University of Freiburg
- Impulse statement by Wolfgang Wanzke, Clariant

SUSTAINABLE CHEMISTRY 2015: the way forward

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6:00pm – 6.15pm	Reporting back from the break-out groups and status quo of SWOT
6:15pm – 6.30pm	Wrap-up of day 1 Jutta Emig, German Environment Ministry
7:00pm – 9.00pm	RECEPTION: Boat trip on river Spree

Friday, September 25th

8:45am – 09:00am	WELCOME
09:00am – 10:30am	Session 5: Sustainable chemistry – the business case (part 1): observations from supply chains of the textile sector Moderator: Joel Tickner, GC3 / UMass Lowell Panelists: Petra Schwager, UNIDO: Introduction Bettina Roth, VauDe Peter Waeber, bluesign technologies ag Nadeera Wijesinghe, MAS Active
10:30am – 11:00am	COFFEE BREAK
11:00am – 12:30am	Session 5: Sustainable chemistry – the business case (part 2): Successful business examples Moderator: Joel Tickner, GC3 / UMass Lowell Panelists: Sonja Jost, DexLeChem Babette Pettersen, Bio-Amber Steffen Säcker, SAFEChem & Knut Johannsen, German Asphalt Paving Association Andy Shafer, Elevance
12:30pm – 1:30pm	LUNCH

SUSTAINABLE CHEMISTRY 2015: the way forward

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1:30pm – 3:00pm	<p>Session 6: Sustainability from the beginning – the pharmaceutical example</p> <p>Moderator Klaus Kümmerer, Leuphana University</p> <p>Panelists:</p> <p>Klaus Kümmerer, Leuphana University: Introduction</p> <p>Wailing Chang, Lisando</p> <p>Adolf Eisenträger, German Environment Agency</p>
1:30am – 3:00pm	<p>Side-event: Sustainable chemistry start-ups pitching session (Room Friedrichshain, 4th floor)</p> <p>Network of German green chemistry scientific start-ups</p>
3:00pm – 4:00pm	<p>Session 7: Linking sustainable chemistry to the 2020-goal: How to get there?</p> <p>Potential contents of a roadmap towards more sustainability in chemistry will be discussed in 3 break-out groups focusing on:</p> <ul style="list-style-type: none">• investment – moderated by Sebastian Lange, Ernst & Young Advisory Berlin• education – moderated by Avtar Matharu, University of York / G2C2 Green Chemistry Network• policy – moderated by Vassilios Karavezyris, German Environment Ministry
4:00pm – 4:15pm	<p>Reporting back from the break-out groups</p>
4.15pm – 4:30pm	<p>Wrap- up of the conference: Messages to the international community</p> <p>Jutta Klasen, German Environment Agency</p> <p>Achim Halpaap, United Nations Environmental Program</p>
4.30pm	<p>END OF CONFERENCE</p>

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Sustainable Chemistry Conference Start-ups Pitching Session

Meet "Chemiewende" Start-ups in Berlin

09/25/2015, 1:30 pm

dbb forum berlin GmbH
Friedrichstraße 169/170
10117 Berlin, Germany

"GERMANY IS ONE OF THE FOUR BIGGEST CHEMISTRY NATIONS IN THE WORLD".

The "Chemiewende" (German for *Chemistry Transition*) describes the shift of the chemical industry based on finite fossil fuels to renewable feedstocks. The transition is underway. In 2011, 14 percent of all resources for chemical production were already bio-based.

But this is just one example. Groundbreaking scientific research in combination with technological progress discloses new dimensions of knowledge. Disruptive innovations can be created by applying these new findings on areas neglected in the past.

New kinds of computational chemistry e.g. broaden the applicability of water as solvent significantly and enhance the efficiency of reactions just as they improve product separations

extensively. More and more high-tech applications are developed in which expensive and harmful chemicals are reduced, re-used, and recycled leading to lower manufacturing costs.

With growing recognition of this huge innovation potential for industry, Germany has begun to create an enabling environment for spin-offs from research institutes. These start-ups offer models of change demonstrating untapped green business opportunities to sectors still based on fossil fuels and other older technologies.

At this unique side-event of the "Sustainable Chemistry Conference: the way forward" 10 selected "Chemiewende" start-ups will pitch their business models. The session will explore opportunities to be derived from this historic chemistry transition as an unprecedented driver for enhanced innovation, entrepreneurship, and competitiveness.

DON'T MISS YOUR CHANCE!



WHO SHOULD ATTEND?

- Decision makers from chemical and pharmaceutical industry
- Tech-scouts
- High-tech investors
- Policy makers
- Entrepreneurs
- All who want to get inspired



WHY SHOULD YOU ATTEND?

- Find green business opportunities
- Discover innovation potential
- See best practices from one of the most important chemical markets in the world
- Find solutions to your problems
- Meet innovators



ABOUT THE START-UPS

- All are high-tech spin-offs from German research institutes
- They unite more than 40 years in research
- Together they received more than 30 awards
- And they have just started...

In order to receive information on future events write an email to: chemiewende@germanstartups.org



The pitching session is a side event of the international conference "Sustainable Chemistry 2015: the way forward" in Berlin jointly organized by BMUB and UBA with the support of GC3 and DBU.

<http://www.umweltbundesamt.de/en/topics/chemicals/chemicals-management/sustainable-chemistry/sustainable-chemistry-conference-2015-start>

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LOCATION AND REGISTRATION

Date: 24/25 September 2015

Venue: dbb forum berlin
Friedrichstraße 169/170
10117 Berlin

Registration: please register [here](#) till 15 August 2015

Registration is free of charge

Conference language: English

WLAN: **Netzwerkadresse SSID:** dbb_forum_gast
Benutzername: chemistry
Passwort: a4e3e

HOW TO FIND



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EVENING EVENT: BOAT TOUR

Location: Reederei Riedel GmbH, Berlin

Date: 24 September 2015

Start: 19:00pm Weidendammer Brücke

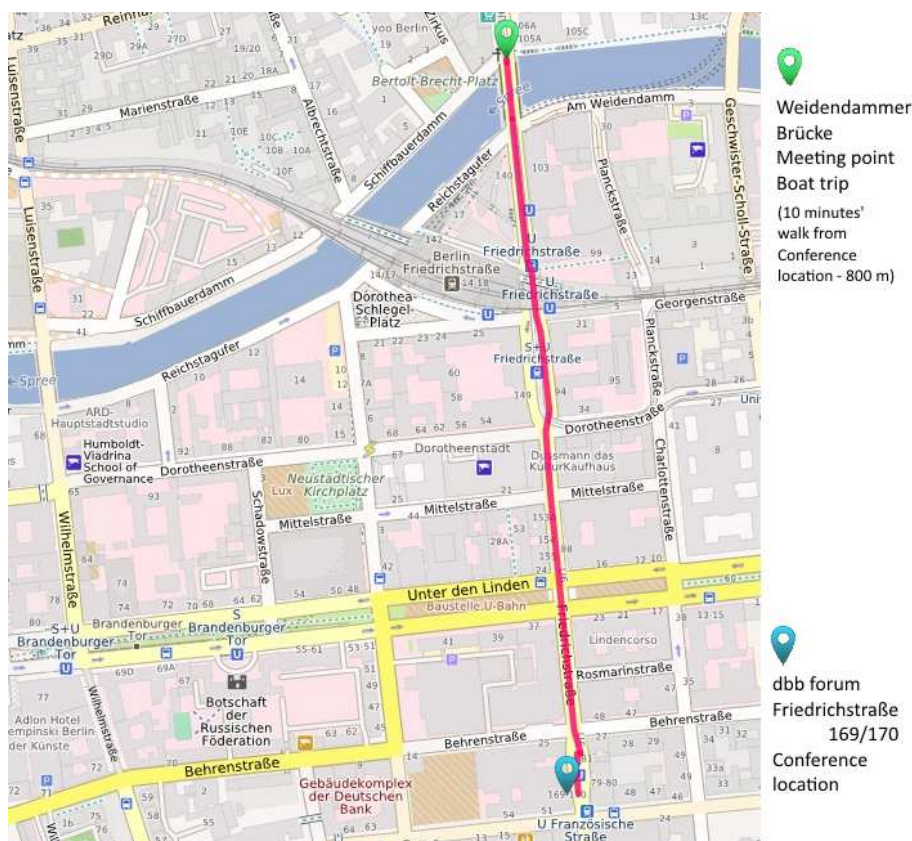
End: 21:00pm Weidendammer Brücke

Registration: please register [here](#)

Registration for this event is only possible, if you are registered for the conference.

Registration is limited to 100 persons.

HOW TO FIND



Source: <http://www.openrouteservice.org>



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