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.
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 Kümmener  
Leuphana University

Jutta Klasen  
German Federal Environment Agency (UBA)
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
AGENDA

**Thursday, September 24**

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
1:30pm – 2:45pm  
**Session 3: Growing sustainable chemistry – needs and opportunities**  
Moderator: **Heinz Leuenerberger**, UNIDO  
Panelists:  
- **Müfit Bahadir**, University of Braunschweig  
- **Dirk Bunke**, Öko-Institut / University of Freiburg & **Anke Joas**, BiPRO  
- **Henning Friege**, 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 Leuenerberger**, 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
24. + 25. September 2015 | Berlin

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00pm – 6.15pm</td>
<td>Reporting back from the break-out groups and status quo of SWOT</td>
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<tr>
<td>6:15pm – 6.30pm</td>
<td>Wrap-up of day 1</td>
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<td>Jutta Emig, German Environment Ministry</td>
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<td>7:00pm – 9.00pm</td>
<td>RECEPTION: Boat trip on river Spree</td>
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**Friday, September 25**

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<th>Time</th>
<th>Event</th>
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<tr>
<td>8:45am – 09:00am</td>
<td>WELCOME</td>
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<tr>
<td>09:00am – 10:30am</td>
<td>Session 5: Sustainable chemistry – the business case (part 1): observations from supply chains of the textile sector</td>
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<td>Moderator: Joel Tickner, GC3 / UMass Lowell</td>
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<td>Panelists: Petra Schwager, UNIDO: Introduction</td>
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<td>10:30am – 11:00am</td>
<td>COFFEE BREAK</td>
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<td>11:00am – 12:30am</td>
<td>Session 5: Sustainable chemistry – the business case (part 2): Successful business examples</td>
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<td>Moderator: Joel Tickner, GC3 / UMass Lowell</td>
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<td>Panelists: Sonja Jost, DexLeChem</td>
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<td>Babette Pettersen, Bio-Amber</td>
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<td>Steffen Säcker, SAFECHEM &amp; Knut Johannsen, German Asphalt Paving Association</td>
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<td>Andy Shafer, Elevance</td>
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<tr>
<td>12:30pm – 1:30pm</td>
<td>LUNCH</td>
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**RECEPTION**
1:30pm – 3:00pm  
Session 6: Sustainability from the beginning – the pharmaceutical example  
Moderator Klaus Kümerer, Leuphana University  
Panelists:  
Klaus Kümerer, Leuphana University: Introduction  
Wailing Chang, Lisando  
Adolf Eisenträger, German Environment Agency

1:30am – 3:00pm  
Side-event: Sustainable chemistry start-ups pitching session  
(Room Friedrichshain, 4th floor)  
Network of German green chemistry scientific start-ups

3:00pm – 4:00pm  
Session 7: Linking sustainable chemistry to the 2020-goal: How to get there?  
Potential contents of a roadmap towards more sustainability in chemistry will be discussed in 3 break-out groups focusing on:  
- **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  
Reporting back from the break-out groups

4:15pm – 4:30pm  
Wrap-up of the conference: Messages to the international community  
Jutta Klasen, German Environment Agency  
Achim Halpaap, United Nations Environmental Program

4.30pm  
END OF CONFERENCE
SUSTAINABLE CHEMISTRY 2015: the way forward
24. + 25. September 2015 | Berlin

Sustainable Chemistry Conference
Start-ups Pitching Session
Meet “Chemiewende” Start-ups in Berlin

“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, reused, 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
• Techscouts
• 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.


Supported by:

Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit
Umwelt Bundesamt
GREEN CHEMISTRY & COMMERCE COUNCIL
ChemicalWatch
DBU Deutsche Bundesstiftung Umwelt
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
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