Welcome to the COPERNICUS Alliance Newsletter August 2016

COPERNICUS Alliance news

COPERNICUS Alliance Conference 2016: Sustainability Transformation of Science Systems

September 14th-15th 2016, Vienna, Austria

CA Conference interactive sessions

We are pleased to announce the finalised conference programme with confirmed keynote speakers and **16 interactive sessions!** We are excited to have so many excellent sessions planned, giving participants plenty of time to engage in discussion and idea-sharing. We hope you enjoy reading about the interactive sessions and will take the opportunity to join us in Vienna!

Registered conference participants must register for their preferred interactive sessions. Places will be allocated on a first come first served basis. Register now to secure your choice of interactive session. Registration for interactive sessions will close on 6th September.

Interactive Sessions Day 1, 14th September 2016

Creating a supportive environment for transformative research at universities

Facilitator: Lisa Bohunovsky
Co-authors: Lisa Bohunovsky, Helga Kromp-Kolb, Gernot Stöglehner, BOKU
TOPIC DESCRIPTION:
Current structures at most universities do not provide adequate incentives to follow such a pathway of transformative research. Thus, the question remains how universities have to change in order to provide framework conditions that allow and even encourage researchers to contribute to societal and sustainability oriented transitions. Such framework conditions include career and evaluation models, publication and teaching practices, necessary skills and university's self-perceptions.
METHOD DESCRIPTION:
Group InVEntion Method (GIVE©) by SPES: The method is a democratic tool to collect ideas in a very efficient way also in big groups. It starts from a certain amount of questions. Each question is put on a flip chart sheet, which are attached to the walls and can be accessed freely. Every participant will write down his or her ideas and complement others. In a second step, all participants have time to read all answers and ideas and prioritise them. The highest rated results are then presented and discussed in plenary.
OUTCOMES:
At the end of the workshop, each participant should have a better understanding of the necessary transformation of research in order to better contribute to a sustainable development, he/she schould see where universities are in regard to such a transformation and what would help to strengthen this kind of research at their universities.

University networks for sustainability - transformative role in education, research and other areas of higher education activities

Faciltator: Jana Dlouha
Co-authors: Jana Dlouha, Clemens Mader, Dana Kapitulcinova, Laura Machackova Henderson, Charles University of Prague, University of Zurich, COPERNICUS Alliance
TOPIC DESCRIPTION:
Higher education institutions (HEIs) are considered to be an important actor in society and their role in sustainability transition has been acknowledged. Through networking, universities enter coalitions to discuss progress in sustainability implementation, to exchange experience and formulate joint policies.
METHOD DESCRIPTION:
The World Café is an interactive and problem-solving-oriented brainstorming methodology. It aims at developing innovative solutions for complex tasks. This is achieved by intensive discussions in small groups, where people from different backgrounds exchange their experience and cooperate to develop new ideas.
OUTCOMES:
The basic principles of HEI activities in five areas will be outlined: education, research, international policy advocacy, outreach & change of communication practices, and other); the role of each area within individual HEIs will be compared to the network. On this basis, benefits provided by the network will be identified; and policy recommendations formulated.

The 12 key issues of ESD

Facilitator: Peter Glavic
Author: Peter Glavic, Uni Maribor
TOPIC DESCRIPTION:
UNESCO endorsed the Global Action Programme (GAP) on ESD as the follow-up to the Decade. The GAP will deploy a two-fold approach to multiply and to scale up ESD action: (1) integrating sustainable development into education and (2) integrating education into sustainable development
METHOD DESCRIPTION:
station talk: This method helps developing new ideas for different topics in a structured way. Participants work in teams of three or four, and rotate from one topic to the next. This way they can comment on the ideas of the previous group and also further develop the ideas.
OUTCOMES:
Suggestions for improvements and completion of the 12 key issues of ESD. It would be interesting to summarize UNESCO's key SD issues and key principles of ESD, the Rio's 18 principles of sustainability, UN's 17 Sustainable Development Goals (SDGs), etc. into simple, say 12 key issues of ESD, containing the most important actions needed and methodologies for a successful transition. They should allow teachers and politicians to understand, promote and apply them in everyday activities. They shall be easy to understand, remember and apply in schools and universities

Transport as a key driver for climate change

Facilitator: Hermann Knoflacher
Co-author: Harald Frey, Research Center of Transport Planning and Traffic Engineering Institute of Transportation, Vienna University of Technology
TOPIC DESCRIPTION:
Transport problems in rich societies are increasing instead of decreasing contrary to other fields of progress. The session will provide the audience with the basic tool to solve problems in this field and to have fun when you understand, why things are going wrong. It is an exercise to look into human brain also. In the session we will show examples that focus on:
- incentives for a low traffic campus
- business travel & congress tourism
- students mobility and structures
- policy framework for universities
METHOD DESCRIPTION:
Analytical Discourse and practical Scenarios:
OUTCOMES:
Suggestions and solutions why Engineering Disciplines are so resilient towards sustainability

Networking innovation to foster ESD: the role of strategic partnerships

Facilitator: Hilligje van 't Land, International Association of Universities (IAU)
Co-author: Clemens Mader, COPERNICUS Alliance; University of Zurich
TOPIC DESCRIPTION:
Joint IAU/CA interactive session of specific interest to all IAU and CA Members and open to all higher education representatives interested in joining these organisations and in getting involved.
COPERNICUS Alliance and the International Association of Universities are pleased to announce the signing of a Memorandum of Understanding aiming at reinforcing mutual initiatives relating to fostering education for sustainable development world round.
Three specific projects are agreed upon as part of the MoU and the session, while aiming at presenting these, invites the participants to get involved and to help shape them in a way that would best serve our mutual membership.
METHOD DESCRIPTION:
world café style:
OUTCOMES:
• develop targeted professional training programs to advance ESD;
• present institutional initiatives online, to network them via the IAU global portal on higher education for sustainable development, registered as key contribution to the UNESCO Global Action Program on ESD;
• call for research papers on the role of higher education in support of the SDGs to be published in a special issue of Higher Education Policy. The best two papers will be rewarded with an excellence price (of a value of 2500 €)

Criteria for monitoring sustainability at higher education institutions in Bavaria - A whole-institution approach

Facilitator: Lara Lütke-Spatz1,3, Hans Stötter3, Johannes Geibel4
Co-Authors:/Co-facilitators: Ingrid Hemmer1 and Markus Vogt2
1Catholic University Eichstätt-Ingolstadt (Germany), 2Ludwig-Maximilians University Munich (Germany, 3University of Innsbruck (Austria), 4netzwerk n e.V. (Germany),

TOPIC DESCRIPTION:
A set of criteria is being developed that allows Higher Education Institutions (HEIs) in Bavaria, Germany, to systematically identify and monitor their sustainability activities in the following six fields: 'Governance', 'Teaching and Learning', 'Research', 'Campus Management', 'Dialogue with Society' and 'Student Engagement' (whole-institution approach). The focus of the project lies on internal processes at HEIs, rather than on external reporting mechanisms, in order to help embed sustainability into the structures of HEIs in Germany. The research project is funded by the Bavarian Ministry of Environment and Consumer Protection.
METHOD DESCRIPTION:
Station Talk: This method helps develop new ideas for different topics in a structured way. Participants work in teams of three to five, and rotate from one topic to the next. This way they can comment on the ideas of the previous group and also further develop the ideas.
OUTCOMES:
With regards to embedding sustainability into the structures of HEIs for each of the 3 fields discussed: 1. Identification of potential drivers; 2. Identification of potential barriers; 3. Revision of/suggestions for the draft set of criteria.

University Course "Education for sustainable development – innovations in schools and higher education" (BINE)

Facilitator: Franz Rauch
Author: Franz Rauch, Alpen-Adria-University Klagenfurt
TOPIC DESCRIPTION:
The goal of the University Course BINE is to encourage participants to deal as a "community of learners" with subject information on sustainable development (SD) and education for sustainable development (ESD) in a reflected way. The participants are teacher-educators and teachers who work on sustainable development issues and their educational challenges.
METHOD DESCRIPTION:
With the method Analytical Discourse a group is able to investigate and analyse a situation/project in a participatory and democratic approach. The main steps of the Analytical Discourse are: Information, Questions (Rules: Only questions, no critical comments, no suggestions), Reflextion (give comments, share reflections etc. no question rule anymore) and Development of theses.
OUTCOMES:
Joint learning on ESD, continious professional development (CPD), interfaces between university and society in teacher education. Development of theses.

How can wicked problems facilitate the transformation of tertiary education institutions to living labs for sustainability?

Facilitator: Peter Schildermans
Author: Peter Schildermans, ECOCAMPUS, Program on Sustainable Higher Education, Government of Flanders, Belgium
TOPIC DESCRIPTION:
Trying to better define wicked problems, dividing them in smaller sub-problems and merely adding more data, doesn't solve them. Living Labs are about "relationship building and having deeper conversations, so that – for example – a sociologist, a scientist and council engineer might all be working on the problem of urban flood prevention. Each sees the problem through their own lens, and with Living Lab they learn to see things from each other's perspective so they can work together.
METHOD DESCRIPTION:
Journalist technik: 4 questions or statements, 4 groups --> each person answers 1 question. A interviews B about question A --> B-A: B --> new couples: ... until everybody has answered all four questions.(All questioning phases each take ten minutes.)
End: regroup: analyze the answers.

Interactive Sessions Day 2, 15th September 2016

Cases of transdisciplinary learning and teaching

Facilitator: Michael Ambros
Co-authors: Petra Biberhofer, Lukas Harlan & Christian Rammel, WU Wien, BOKU
TOPIC DESCRIPTION:
First, participants of this session get introduced to two different examples focusing on ways to open up universities in the context of inter- and transdisciplinary learning and teaching. The first example is the European funded project CASE Competencies of A Sustainable socio-Economic development were ten university and business partners from 5 countries jointly accept the need of new ways of teaching and learning as well as a strong cooperation between higher education and business to enhance a sustainable socio-economic development in general and new forms of sustainability-driven enterprises in particular. The second example is the master program public policy focusing on political and social entrepreneurship. The program will be provided from the School for Political Design and invites professionals of any age with hands-on experience in political, scientific, cultural, economic, or social environments. It is designed to enable students to develop, communicate and implement a concrete social or political project on the basis of effective action and responsible decision-making. The program enables the students with all necessary analytical and practical skills to become a civic minded leader and/or an innovative entrepreneur in a political or social context.
METHOD DESCRIPTION:
Step 1 (station talk/working in groups): Observation of the problem / brainstorming to develop and discuss good practice approaches, knowledge exchange and sharing between participants, collection of main problems/main challenges concerning key questions.
Step 2 (rapid prototyping): Prototyping is a method connected to design thinking usually implemented over several loops. Linked to a time based, iteration and positive approach which carries the sciencesociety-interface into effect, it aims to develop concrete applicable solution concepts which last beyond the actual interactive session conducted during the Copernicus Alliance conference. As such examples presented in the beginning of the session and contributed by the participants will be used and analysed concerning good practices and further developed -> presentation results.
As such the strategy of the session is to focus on concrete inter- and transdisciplinary project development in terms of accurate problem analysis and identification of entry points. How do you get first ideas for troubleshooting to actual implementation? The workshop cannot cover all steps usually practiced via rapid prototyping. Consequently, learnings have to be integrated into a new phase and presented to users afterwards. The aim of the session is also to establish working groups beyond the session.
OUTCOMES:

· Get familiar with transdisciplinary analysis tools and problem solving techniques.
· Conduct analysis to identify any entry points for possible solutions with regard to enhance transdisciplinary learning and teaching across science-society-interfaces.
· How to get first project ideas towards implementation?

Envisioning climate neutral universities

Facilitator: Sybille Chiari,
Co-authors: Sybille Chiari & Dominik Schmitz, BOKU
TOPIC DESCRIPTION:
This workshop aims to bring together different perspectives, ideas, strategies and measures on how to support universities to become carbon neutral. As intro we will very briefly summarise the preliminary outcomes of a research project on accounting greenhouse gas emissions at universities.
METHOD DESCRIPTION:
World Disney method to talk about possible pathways towards carbon neutral universities. The participants will join the three groups (the dreamers, the realists and the critics) in a circular mode to create, discuss, exchange and challenge ideas and possible strategies and solutions for carbon neutral universities.
OUTCOMES:
1) capture others scientists perspective on the general idea of carbon neutral universities
2) illustrate most relevant barriers on the pathway towards carbon neutral universities
3) compare emission reduction strategies persued by others as well as concrete measures that have been implemented at their home universities

Sustainability in academic research, the answer to societal challenges

Facilitator: Filip Colson
Co-authors: Filip Colson & Leen Audenaert, Ecocampus, Sustainable Higher Education, Government of Flanders, Belgium
TOPIC DESCRIPTION:
Tackling the hardest hurdle in sustainable development: the transformation of research. What can you learn from the implementation of strong sustainability in HE research in Flanders, Belgium?
METHOD DESCRIPTION:
Journalist technique: depending on the number of participants, we will have 3 or 4 questions or statements, 3 or 4 groups --> each person answers 1 question. A interviews B about question A --> B-A: B --> new couples: ... until everybody has answered all questions.(All questioning phases each take ten minutes.) End: regroup: analyze the answers.
OUTCOMES:
The info, ideas and shared practices enable you to act within your research group: after this session you will be able to debate the concept and its implications at your own institution, you will have a clear idea of how SD can influence the way you write research proposals, the way you do your research and the way you analyze/contextualize its results, etc.

COPERNICUS Charta 2016 - Drafting the way ahead

Facilitaor: Jana Dlouha
Author: Jana Dlouha, Charles University in Prague
TOPIC DESCRIPTION:
COPERNICUS Alliance has drafted a new CA Charta that will be launched at the end of the conference. This new document is supposed to reflect last developments in Sustainability debates, and anticipate new roles of universities in changing knowledge landscape. The session is dedicated to involve participants in the development of the final draft version of the Charta. After this participants will still have the opportunity for changing small parts of the Charta, but the structure and main contents will be finalized in this session.
METHOD DESCRIPTION:
PopCorn and Focus groups:
In this session, we will have intense, structured discussion on the purpose, content, and possibilities for implementation of the renewed COPERNICUS Charta; its purpose is to achieve reliable, justified feedback as a basis for developing the document. Discussion within the group will be moderated as a process of "guided interaction" participants will stimulate each other in an exchange of ideas, motivations, feelings, and values behind them. "PopCorn" method will give a chance to elicit comments from those who feel moved to share them.
OUTCOMES:
The aim of the session is to :
- exchange on the purpose of the charta
- deveop the final structure and main contents of the charta
- discuss ways to promote and implement the charta.

The ESD Monitoring Framework in Germany - how to measure the impact of the Global Action Program on Education for Sustainable Development

Facilitator: Insa Otte
Co-authors: Insa Otte, Antje Brock & Mandy Singer-Brodowski, Free University Berlin, Institut Futur
TOPIC DESCRIPTION:
The "Monitoring of the GAP ESD" at Freie Universität Berlin tries to evaluate the status quo and the quality of ESD in Germany. Qualitative and quantitative research are supposed to provide central drivers and barriers as well as leverage points for the German educational system. Discussing the concept of the monitoring as well as out of the point of the view of the participants the questions of central drivers and barriers for mainstreaming ESD the higher educational system is focus of this session.
METHOD DESCRIPTION:
Plenary discussion & World Café: World café is an interactive and problem-solving-oriented brainstorming methodology. It aims at developing innovative solutions for complex tasks. This is achieved by intensive discussions in small groups, where people from different backgrounds exchange their experience and cooperate to develop new ideas.
OUTCOMES:
Identification of central barriers, drivers as well as leverage points to implement ESD in Higher Education.

Employing concept mapping for building consensus on (E)SD issues

Facilitator: Michael Scoullos
Author: Michael Scoullos, UNESCO Chair and Network on SD Management &Education, University of Athens; MEdIES/MIO-ECSDE

TOPIC DESCRIPTION:
The proposed interactive session will review few examples and focus on the experience of the author in using concept mapping for enhancing comprehension and building consensus on issues related to (E)SD among different combinations of stakeholders and in a variety of settings: e.g. in classrooms and "knowledge construction" environments by identifying knowledge gaps and misconceptions and/or by reaching agreement on optimal ways to present issues.
METHOD DESCRIPTION:
Concept mapping is a way of developing logical thinking and, in a variety of forms, could help individuals or groups to clarify and elaborate their ideas about a given topic and present them in a visual way
3 OUTCOMES:
One or two collectively constructed concept maps on issue(s) to be selected by the participants and some suggestion on their use on ESD/SD consensus building processes

U-MOB LIFE | European University Network for Sustainable Mobility

Facilitator: Rafael Requena Valiente
Co-authors: Cécile Sauvage (FEH), Maria Isabel Dominguez Perelló (NOVOTEC), Universitat Autònoma Barcelona, Fundación Equipo Humano, NOVOTEC Consultores SA
TOPIC DESCRIPTION:
The main objective of U-MOB LIFE project is the creation of a university network to facilitate the exchange and transfer of knowledge about sustainable mobility best practices among European universities.
METHOD DESCRIPTION:
Practical Scenarios: The principle is to ask participants to give a solution to a given problem related to mobility framed in a story contextualised in a university campus and oriented toward the questions for discussions presented below. Concretely, we will propose active participation to problem solving, leading to a reflection and abstract conceptualisation for further application.
OUTCOMES:
Highlight main challenges faced by universities on sustainability in relation to mobility. Assess importance of networking in sustainable mobility solutions.Check interest of Universities on joining European Network of mobility management at campus

Working towards a robust reference framework to strengthen integration of sustainable development in university teaching

Facilitator: Anne Zimmermann
Co-authors: Anne Zimmermann, Karl Herweg, Andreas Kläy & Doris Wastl-Walter, University of Bern
TOPIC DESCRIPTION:
Universities educate future agents of change; if they pledge to commit to sustainable development (SD), they can contribute to "the great transformation". However, in the context of ESD, even when universities actively support integration of SD in teaching, their mainstreaming efforts have limited effect because they lack a reference framework to valorize SD integration.
METHOD DESCRIPTION:
The World Café is an interactive and problem-solving-oriented brainstorming methodology. It aims at developing innovative solutions for complex tasks. This is achieved by intensive discussions in small groups, where people from different backgrounds exchange their experience and cooperate to develop new ideas.
OUTCOMES:
1: Criteria enabling disciplines and approaches to recognize their relation to societal systems and commit to an SD orientatio
2: Criteria for assessing the progress of departments' reflection and implementation processes leading to integration of SD in teaching
3: Criteria for institutional support of a university's monitoring and evaluation of SD orientation in teaching

Keynote Speakers

We are please to confirm the following keynote speakers:

Maik Adomßent, Institute for Environmental and Sustainability Communication/Faculty of Sustainability Sciences, and coordinator of the Complementary Studies Programme at the Leuphana University of Lüneburg, Germany
Global trends in sustainability science - From academic advances to application in public policy

Mandy Singer-Brodowski, Free University of Berlin, Institut Futur and UNESCO Global Action Programme on Education for Sustainable Development
Leverage points in the transformation of a science system - the case of Germany

Dzulkifli Abdul Razak, President, International Association of Universities
Institutional policies and practices to transform universities for sustainable development. IAU's perspective

Lawrence Rajendran, University of Zurich and the founder of www.sciencematters.io

The full conference programme is available online at http://www.copernicus-alliance.org/programme

CA Members' news

Enabling Leadership for Transformational Teaching and Learning for sustainable development workshop

October 4th, the final ELTT Workshop and open plenary discussion will be held at the University of Zurich.
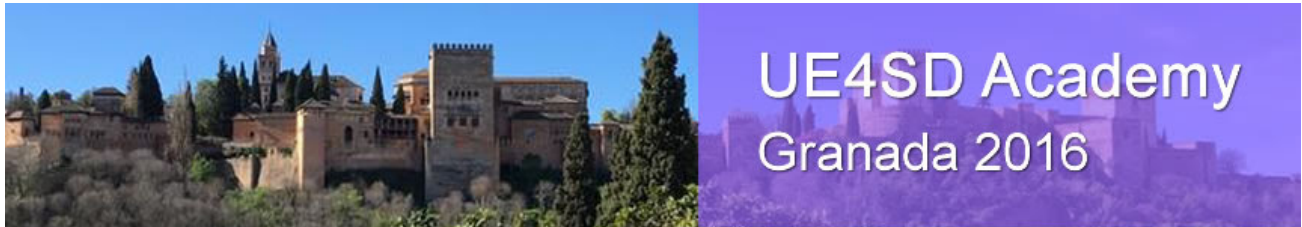Two Key notes will provide input for an open discussion with the audience:
Dr Dalia Khalil, Heliopolis University for Sustainable Development, Cairo, Egypt and
Dr. Hilligje Van't Land, International Association of Universities (IAU), Paris, France
The key discussion will be about transformation of universities towards sustainable development, looking at the exceptional

case of Heliopolis University as well as from an international perspective of IAU.
More information will soon be provided at: www.sustainability.uzh.ch

UE4SD project closes with the launch of a unique professional training resource

Over the last three years, UE4SD has achieved its aims through a range of activities and exchanges focused on the professional development of educators. The project has produced materials that provide a shared understanding of ESD within different cultural backgrounds, support professional development of educators' competences, and stimulate relevant education policies at different levels, from institutional to European.

The final and key activity of the project is the UE4SD Academy, which implements results reached in the previous stages. The Academy process was designed and co-ordinated by the UE4SD Steering Group, led by the University Autònoma Madrid, and involved four UE4SD partner institutions. The ultimate goal of the Academy is to support change for sustainability in HE institutions by supporting university educators to develop their own ESD competences, including leadership and change agency skills needed to facilitate institution-wide change processes towards sustainability. The Academy provided the space, time and support for these teams to think creatively to ensure that the fully developed and implemented individual Academy projects:

- critically reflect the cultural specifics in ESD,
- use dialogue to gain insights into ESD professional development,
- develop a personal and shared understanding of ESD in practice,
- identify challenges and opportunities in ESD projects

Thus, the Academy will extend opportunities for the recognition of competences and implementation of professional practice in ESD.
The CA is seeking ways to support the continued development of the work of UE4SD.

All UE4SD materials are available at http://www.ue4sd.eu. Key outcomes from the project and pathways for future are outlined

here: http://platform.ue4sd.eu/pathways.php

The development of the Academy as an outcome of the UE4SD Project has been funded by the European Commission - Lifelong Learning Programme. Information on the Academy can be found here: http://platform.ue4sd.eu/ue4sd_accadeny.php
For further information about the Academy please contact the Work Package Lead prof. Javier Benayas, javier.benayas@uam.es.

Sustainable academic travel

The Sustainability Team of UZH has published two factheets on the topics of business travel and media use. They form the beginning of a series about issues of sustainability in everyday life at the university. You can find further information here: http://www.news.uzh.ch/en/articles/2016/nachhaltigkeit-factsheets.html

European universities for mobility management

Universitat Autònoma de Barcelona a partner of CRUE Sostenibilidad (Spanish University association sustainable commission) is one of the beneficiary partners of a LIFE project called U-MOB, which started 1st of July 2016. The main goal of the project is to set up a network of European universities for mobility management, one of the main challenges to sustainability at university. The project will share information, support debate, promote sustainability of mobility, mobility plans. Yhe project will hold 3 conferences within its 5 year period, the first of which will be held in Barcelona in February 2017.
For more information please contact Rafael Requena at Rafael.Requena@uab.cat

Featured CA Member Institution

University of Bern, Switzerland

In its 2014-2021 Strategy, the University of Bern explicitly commits to freedom in teaching and research, but it also acknowledges that is has an ethical responsibility and needs to follow the principles of sustainable development. The explicitness of this double commitment results from the politically driven mandates it received in 2009 and 2013 from the Canton of Bern, leading the University to formulate its Strategy in such a way that it includes sustainable development (SD) as a guiding principle for research, education, and operations. But this top-down approach has come along with a strong bottom-up movement to make research and teaching accountable to key societal goals; this has led to SD mainstreaming initiatives at the University.

As part of its Strategy, the University defined nine strategic themes represented by so-called interdisciplinary Competence Centres – three of which are explicitly devoted to SD-related issues and pursue inter- and transdisciplinary research: the Centre for Development and Environment (CDE), Oeschger Centre for Climate Change Research (OCCR), and the World Trade Institute (WTI). In addition, the University launched a new Bachelor Minor in SD in 2013, catering for an unexpectedly high number of students as of the first year of operation. In 2015, a Master Minor followed. Along with the International Graduate School (IGS) North-South – launched in 2012 and offering PhDs a Certificate in SD added to their PhD Degree in any other discipline – and a Certificate of Advanced Studies in SD, these degrees cover the whole range of possibilities students have to benefit from Education for SD (ESD).

But added value does not always emerge from a simple addition; it is more likely to come from a steady transformation of existing courses of study and understandings of the role of science in society. This is the aim pursued by two projects co-funded by the University of Bern and the Swiss University Conference: one has developed guidelines and tools to integrate sustainable development into teaching at the University of Bern (www.bne.unibe.ch), while the other focuses on professional development of faculty staff and on providing ESD competence-enhancing support to "multipliers".

Last but not least, the University of Bern also supports student initiatives focusing on SD, as illustrated at the University's 2015 Sustainability Day (http://www.nachhaltigkeitstag.unibe.ch/).
Being a member of the COPERNICUS Alliance will enable the University of Bern to benefit from interaction with a very lively and committed European ESD community. We also look forward to sharing our experience of mainstreaming SD in education, as well as in research and operations.

Global news

2016 AASHE Conference & Expo, Baltimore, Maryland, U.S., Oct. 9-12, 2016

The Association for the Advancement of Sustainability in Higher Education (AASHE) Conference & Expo brings together sustainability professionals and partners to inspire innovation and advancement at campuses and surrounding communities.

Higher education institutions have been modeling sustainability solutions on their campuses for many years. With a theme of Beyond the Campus, AASHE 2016 will focus on the crucial next step: the dissemination and implementation of these solutions in surrounding communities and the world. Meeting the sustainability challenge requires collaboration across sectors and with stakeholders outside of academia. Register to join more than 2,300 sustainability professionals in Baltimore, Maryland, U.S., from Oct. 9 - 12, 2016