

URCFORSR 2018 INTERNATIONAL CONFERENCE,  
PALAIS UNIVERSITAIRE, STRASBOURG  
DETAILED PROGRAMME



INTERNATIONAL  
SUSTAINABILITY CONFERENCE  
INCLUDING INNOVATION FORUM

Palais Universitaire, 9 Place de l'Université,  
Strasbourg, France

Free registration:  
[urcforsr2018.sciencesconf.org](http://urcforsr2018.sciencesconf.org)



Thursday 27 September

- 13.15 Welcome  
*Posters will be on display in the Palais Universitaire aula for the entire duration of the Conference*
- 13.30 – 14.30 Institutional addresses  
Hans-Jochen SCHIEWER, President, EUCOR – The European Campus  
Jay ROWELL, Vice-President in charge of Research, University of Strasbourg  
TBA, Région Grand Est  
Françoise BEY, Vice-President, Eurométropole
- 14.30 – 14.45 Introduction – Prof. Dr. Paul BURGER (*URCFORSR Cluster Chair, University of Basel, Switzerland*)
- 14.45 – 15.45 Keynote lecture – Prof. Dr. Janet HERING (*EAWAG – Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland*)  
“The role of science in the decision to upgrade wastewater treatment plants for micropollutant removal: the Swiss case”
- 15.45 – 16.15 *Coffee break*

16.15 – 17.45 Parallel thematic sessions I

	<b>Governance &amp; Multiculturalism</b>	<b>Energy</b>	<b>Transformations &amp; Resources</b>
16.15 – 16.45	<p>Sihem DEKHILI <i>EM Strasbourg Business School, France</i></p> <p>“Comment renforcer l’écotourisme ? L’apport de la co-création avec le client”</p>	<p>Aida BOUDHAOUIA <i>University of Haute Alsace, Mulhouse, France</i></p> <p>”Collecting and analyzing data from autonomous IoT sensors with application to smart buildings”</p>	<p>Yanling ZOU <i>University of Freiburg, Germany</i></p> <p>“3D point cloud obstacle detection in forests”</p>
16.45 – 17.15	<p>Bernhard NEUMÄRKER <i>University of Freiburg, Germany</i></p> <p>“Social sustainability and sustainable governance in Europe: the euro-dividend”</p>	<p>Arian MAHZOUNI <i>Royal Institute of Technology, Stockholm, Sweden</i></p> <p>“Scaling up best practices of urban retrofit: the city district of Weingarten-West in Freiburg, Germany”</p>	<p>Abdou SOILHI <i>CIREC, Nogent-sur-Marne, France</i></p> <p>“Perceptions of local populations of Karthala forest and its protected area creation project: A cognitive mapping approach and social representation”</p>
17.15 – 17.45	<p>Melanie STRÖBEL <i>University of Koblenz-Landau, Landau, Germany</i></p> <p>“The role of lifestyle, quality of life preferences and culture for short- and long- distance leisure air travel”</p>	<p>Ines GAVRILUT <i>University of Freiburg, Germany</i></p> <p>“Regional concepts for an integrated, efficient and sustainable energy supply and storage system in the Upper Rhine Trinational Metropolitan Region (TMO)”</p>	<p>Olivier COURSON <i>University of Strasbourg, France</i></p> <p>“Characterized dissolved organic matter in the Seine river: an anthropic indicator way”</p>

17.50 – 18.50 Keynote lecture – Prof. Dr. Benjamin SOVACOOOL (*University of Sussex, Brighton, U.K.*)

“Ordering theories: Typologies and conceptual frameworks for energy transitions”

19.00 – 20.30 *Cocktail reception (offered to all conference participants)*

## Friday 28 September

8.45 Welcome

*Posters will be on display in the Palais Universitaire aula for the entire duration of the Conference*

9.00 – 10.30 Parallel thematic sessions II

	<b>Governance &amp; Multiculturalism</b>	<b>Energy</b>	<b>Transformations &amp; Resources</b>
9.00 – 9.30	<p>Joachim BECK <i>University of Applied Sciences, Kehl, Germany</i></p> <p>“Open government and regional policy innovation – some learnings from the Upper Rhine transborder co-operation”</p>	<p>Christelle ROY <i>University of Strasbourg, France</i></p> <p>Alain DIETERLEN <i>University of Haute Alsace, Mulhouse, France</i></p> <p>“The Upper Rhine Region in a successful European energy transition”</p>	<p>Max ARNOLD <i>Karlsruhe Institute of Technology, Germany</i></p> <p>“A concept for identifying potential biomass conversion sites in the German federal state of Baden-Württemberg based on multi criteria analysis and geographic”</p>
9.30 – 10.00	<p>Klaus Markus HOFMANN <i>European College of Human Ecology, Emmendingen, Germany</i></p> <p>“Measuring the sustainability of regional transport systems”</p>	<p>Anke WEIDLICH <i>University of Freiburg, Germany</i></p> <p>“Integrated sustainability assessment and optimization of energy systems”</p>	<p>Natalie LANZRATH <i>Karlsruhe Institute of Technology, Germany</i></p> <p>“An estimation of hard coal transport costs in Germany”</p>
10.00 – 10.30	<p>Julia BLANC <i>University of Basel, Switzerland</i></p> <p>“Religion in sustainability transitions”</p>	<p>Margot PELLEGRINO <i>University of Paris-Est Marne-la-Vallée, France</i></p> <p>“Rome, an unexpected laboratory for implementing the energy transition”</p>	<p>Carmen SCHIEL <i>Karlsruhe Institute of Technology, Germany</i></p> <p>“Real option thinking: policy implications for environmental investments”</p>

10.30 – 11.00 *Coffee break*

	<b>Governance &amp; Multiculturalism</b>	<b>Energy</b>	<b>Transformations &amp; Resources</b>
11.00 – 11.30	Philippe HAMMAN <i>University of Strasbourg, France</i>  “Local governance of energy transition in north east France: sustainability, transactions and social ties”	Ann-Kathrin HESS <i>University of Basel, Switzerland</i>  “Can at-home tailored energy advice contribute to changing household’s energy consumption routines? A randomized controlled trial”	Jon Marco CHURCH <i>University of Reims Champagne-Ardenne, France</i>  “The project of a LTSER site driven by civil society in the Argonne”
11.30 – 12.00	Sophie LIZIARD <i>ENGEES, Strasbourg, France</i>  “Can governance and legally binding rules live together? A study of rules productions in French local water committees”	Valérie TSCHAMBER <i>University of Haute Alsace, Mulhouse, France</i>  “Experimental investigation on gaseous and particulate emissions from a residential wood stove in realistic operation”	Aurélie SCHULZ <i>University of Strasbourg, France</i>  “Fate factor of engineered TiO <sub>2</sub> nanoparticles in aquatic and terrestrial natural environments”
12.00 – 12.30	Emiliano SCANU <i>University Laval, Québec, Canada</i>  “Urban climatic action and sustainability challenges: the Québec example”	Jan HERRMANN <i>University of Freiburg, Germany</i>  “Global stress classification for materials used in solar energy systems”	Sébastien DAVID <i>University of Strasbourg, France</i>  “Flocking asbestos wastes weathering by siderophores: a focus on pyoverdines efficiency”

12.30 – 14.00 *Buffet lunch (offered to all conference participants)*

14.00 – 16.00 Innovation forum (*coffee from 15.30*)

Joy MANGLANI (*Only Nature Endures, Mumbai, India*): “Creating a sustainable green planet by generating solar bio-energy from wastewater and waste”

Alexandra WOLF (*Staatliches Weinbauinstitut, Freiburg, Germany*): “VITIFUTUR - A transnational platform for applied research and further education in viticulture”

Regina RHODIUS (*University of Freiburg, Germany*): “Governing real-world laboratories: how to deal with its transformative and transdisciplinary claim (the case of WiNo)”

ROUND TABLE animated by Michel DE MATHELIN (*Vice-President in charge of business partnerships, University of Strasbourg*): “Example collaborations for sustainability between academia and the private sector: What makes a success story?”

16.00 – 17.00 Keynote lecture – Prof. Dr. Alexandra-Maria KLEIN (*University of Freiburg, Germany*)

“Biodiversity and ecosystem services in changing landscapes”

17.00 – 17.15 Closing remarks – Prof. Dr. Paul BURGER (*URCforSR Cluster Chair, University of Basel, Switzerland*)

## Poster list

- Afrah **Al-Mahfadi** and Mohamed Dakki (*Research Unit for Wetlands Management, Scientific Institute, Mohamed V. University, Rabat, Morocco*): “Main Threats of Coastal Wetlands in Yemen”.
- Luisa **Arango** (*UMR SAGE, University of Strasbourg, CNRS, France*), Guillaume Christen (*UMR SAGE, Strasbourg, France*), Aurélien Losser (*Institute of Ethnology, University of Strasbourg, France*): “Acteurs divers, savoirs multiples : la légitimation des connaissances dans la gestion des zones humides d’intérêt international en Afrique”.
- Emmanuel **Ballot** (*AMUP laboratory, ENSAS, Strasbourg, France*): “NESTERR2 Development of an urban sustainability evaluation tool at the territorial scale”.
- Valentin **Baudouin** (*UMR SAGE, University of Strasbourg, France*): De la durabilité vers la sobriété.
- Paul **Bois** (*ICube, CNRS, ENGEES, ZAEU, Strasbourg, France*), Jean-Nicolas Beisel (*LIVE, ENGEES, Strasbourg, France*), Carine Heitz (*UMR GESTE, ENGEES, IRSTEA, Strasbourg, France*), Marjorie Pierrette (*UMR GESTE, ENGEES, IRSTEA, Strasbourg, France*), Julien Laurent (*ICube, CNRS, Strasbourg, France*), Milena Walaszek (*ICube, CNRS, Strasbourg, France*), Adrien Wanko (*ICube, CNRS, Strasbourg, France*): “Sustainability of a blue and green corridor restoration - case study of the Ostwaldergraben”.
- Radhwane **Boukelouha** (*University of Constantine 3, Algeria*) and Nora Gueliane (*EHESS, Cems, CRH, Paris, France*): “Morphologie urbaine et Marchabilité : Quel projet urbain pour marchabiliser nos territoires urbains ? Cas de la ville nouvelle Ali Mendjeli à Constantine(Algérie)”.
- Sebastian **Brackhane** (*Upper Rhine Cluster for Sustainability Research, University of Freiburg, Germany*), Pierre Fluck (*University of Upper Alsace, Mulhouse, France*), Laurent Schmitt (*University of Strasbourg, CNRS, Strasbourg, France*), Patricia Holm (*MGU, University of Basel, Switzerland*) and Barbara Koch (*Professorship for Remote Sensing*): “Upper Rhine Science Trails”.
- Sebastian **Brackhane** (*Upper Rhine Cluster for Sustainability Research, University of Freiburg, Germany*), Claire Rambeau (*University of Freiburg, Germany*), Carmen De Jong (*University of Strasbourg, CNRS, France*), Karl Matthias Wantzen (*University of Tours, University of Strasbourg, France*), Frank Preusser (*University of Freiburg, Germany*) and Laurent Schmitt (*University of Strasbourg, CNRS, France*): “Think Tank Rhine River Ecosystems - Past, Present, Future”.
- Mariana **Calcagni** (*University of Freiburg, M.Sc Environmental Governance, Germany*): “Science-Policy Interfaces in transboundary water governance contexts: the case of the Catamayo ChiraBasin”.
- Marco **Church** (*HABITER-EA 2076, University of Reims Champagne-Ardenne, France*): “Analyzing the Governance of Large Ecosystems: Building on Ostrom’s SES Framework”.
- Mirella **Del Nero**, Guillaume Fleury, Olivier Courson, Anne Boos, Sylvia Meyer-Georg and Sylvie Massemin (*Hubert Curien Pluridisciplinary Institute, University of Strasbourg, IPHC, CNRS, UMR 7178, France*): “Investigating availability and ecotoxicological impacts of trace metal elements in soils: an interdisciplinary approach”.
- Hamida **Diab** and Abdelmadjid Chouabb (*LGRN, Badji Mokhtar University, Annaba, Algeria*): “Djebel El Had Iron Index: geological approach, geochemistry, mineralogical and structural contexts”.
- Sophie **Dorge** (*GRE, University of Upper Alsace, Mulhouse, France*): “SOx trapping applications: evolution of the CuO/SBA-15 adsorbent performances along cycling experiments”.

- Mahfoud **Drouaz** (*PhD Student, University of Upper Alsace, Mulhouse, France*), Ali Moukadem (*Associated Professor, IRIMAS, IUT Mulhouse, France*), Bruno Colicchio (*Associated Professor, IRIMAS, IUT Mulhouse, France*), Alain Dieterlen (*Professor, IRIMAS, IUT Mulhouse, France*) and Djaffar Ould Abdeslam (*Associated Professor, IRIMAS, IUT Mulhouse, France*): “Time-frequency features applied on electrical transient signal classification”.
- Siham **Elaryf** (*Scientific Institute of Rabat, Morocco*): “Run-off Simulation with Two Methods Using HEC-HMS Model (Case Study: Bouregreg Watershed)”.
- Lionel Constantin **Fosso** (*University of Freiburg, Germany*), Karahalil Uzay (*Karadeniz Technical University (ktu)-Trabzon, Turkey*) and Huss Juergen (*University of Freiburg, Germany*): “Integration of Climate Change to Forest Management Practices: A comparative study of Forestry Professional’s perceptions and adaptation strategies elaborated in Souths Germany, Turkey and Cameroon”.
- Nora **Gueliane** (*PHD Student, CRH EHESS, Paris, France*): “Les nouveaux Ksour du M’Zab, l’exemple d’une participation citoyenne locale : cas du nouveau Ksar de Tinemmirine”.
- Stephan **Herminghaus** (*Max Planck Institute for Dynamics and Self-Organization, Germany*): “Mean-Field theory of ride sharing systems”.
- Emna **Jedidi** (*GRED, Institut de recherche pour le développement, Université Paul Valéry-Montpellier III, Université de Carthage, ISTEUB, UCAR, Sidi Bou Said, Tunisie*): “Des bonnes gouvernances pour une innovation urbaine des lotissements des Berges du Lac Nord de Tunis”.
- Ahmed **Jihad** (*Department of Education, Fallujah, Irak*): “The Role of Sustainable Development in The Design and Planning of Smart Cities Using GIS Techniques (Models of Arab Cities)”.
- Raphael **Klein** (*Management of Network Industries EPFL, EPFL, MIR Odyssea, Lausanne, Switzerland*): “Simulating transitions using policy process theories”.
- Behshad **Koohbor** (*Laboratory of HYdrology and GEochemistry of Strasbourg-LHyGeS, France*), Benjamin Belfort (*LHyGeS, INSU, University of Strasbourg, CNRS, ENGEES, France*) and Marwan Fahs (*LHyGeS, France*): “A semi-analytical solution based on Fourier series for dispersive Henry problem in an anisotropic and layered aquifer”.
- Jonathan **Ledy**, Mohammed Boudali, Joel Lambert, Jean-Philippe Lauffenburger, Thomas Sproesser, Abderazik Birouche, Benjamin Mourllion, Rodolfo Orjuela and Michel Basset (*IRIMAS, UHA, Mulhouse, France*): “SIMPHA: Solutions Innovantes pour la Mobilité individualisée et durable des séniors et Personnes présentant un Handicap”.
- Wibke **Muller** (*Forest and Environmental Policy, University of Freiburg, Germany*): “Water governance: Politicization of drought by farmers in Southern Germany over time”.
- Patricia **Munsch-Alatossava**, Tapani **Alatossava** (*Department of Food and Nutrition, University of Helsinki, Finland*): “N2 gas flushing of raw milk: perspectives for low-versus high-income countries”
- Claude Bertin **Nzoundja Fapi** (*LESIA, University of Ngaoundere, Cameroun*), Patrice Wira (*MIPS, University of Upper Alsace, Mulhouse, France*) and Martin Kamta (*LESIA*): “A comparative study of MPPT algorithms to optimal power extraction from a photovoltaic panel”.
- Stéphane **Ondo Ze** (*HABITER-EA 2076, University of Reims Champagne-Ardenne, France*): “Ecological appropriation of territorial margins in Central Africa: Skates and perspectives of the appropriation of the forest of Minkébé in the Northeast of Gabon”.
- Stephan **Parlow** and Paul Burger (*Sustainability Research Group, University of Basel, Switzerland*): “Dynamic & participative process towards sustainable development on city level with focus on sufficiency”.
- Florence **Rudolf** (*Architecture, Urban Morphology/Morphogenesis Project, National Schools of Applied Sciences, ENSA, Strasbourg, France*): “Cultural patterns in adaptation to Climate Change”.
- Julien **Spiegel**, Gilles Hermann and Patrice Wira (*MIPS, University of Upper Alsace, Mulhouse, France*): “Toward autonomous smart water meters”.
- Yacine **Triki** (*MIPS, University of Upper Alsace, Mulhouse, France*): “Adaptive Neural Control Based MPPT Methods in PV Systems”.

- Gwenaelle **Trouve**, Cornelius Schonnenbeck and Jean-François Brillhac (*LGRE, University of Upper Alsace, Research Institute Jean-Baptiste Donnet, Mulhouse, France*): “Emission factors of gas and particle pollutants during the energy recovery of grape marc residues in a domestic boiler”.
- Sophie **Wodociag** (*University of Upper Alsace, University of Franche-Comté, CREGO, University of Bourgogne, France*) and Dominique Kern (*University of Upper Alsace, Mulhouse-LISEC, France*): “Examen des facteurs favorisant la rencontre intergénérationnelle et interculturelle dans un contexte transfrontalier”.
- Omkeltoum **Zidani** (*Laboratory of Functional Ecology and Environment, University of S.M. Ben Abdellah, Morocco-Team 'Humid Zones', Scientific Institute, Rabat, Morocco*): “Availability of data for the development of a database on the physicochemical quality of water in Moroccan wetlands”.
- Nabila **Zouaoui** (*LGRE, University of Upper Alsace, Research Institute Jean-Baptiste Donnet, Mulhouse*), Yasmina Hammiche-Bellal (*LMCCCO, Faculty of Chemistry, Bab Ezzouar, Alger*), Amel Benadda (*LMCCCO, Faculty of Chemistry, USTHB, Algeria*), and Amar Djadoun (*Laboratory of Geophysics, FSTGAT, USTHB, Bab Ezzouar, Algeria*): “Synthèse et caractérisation d'oxydes mixtes Fe-Co-O: Propriétés en oxydation catalytique”.

## **Organizing committee**

Stéphane VUILLEUMIER, leader axis “Transformation processes & technologies”, University of Strasbourg

Philippe HAMMAN, leader axis “Governance”, University of Strasbourg

Amandine BRANDTNER, enabler axis “Governance”, University of Strasbourg

Chloé BOURGEOIS, enabler axis “Transformation processes & technologies”, University of Strasbourg

Grazia SCOCCA, organisation assistant, University of Strasbourg

## **Scientific committee**

Paul BURGER, Cluster Chair, University of Basel, Switzerland

Barbara KOCH, Cluster Vice Chair, leader axis “Resource Management”, University of Freiburg, Germany

Wolf FICHTNER, co-leader axis “Energy, infrastructure & social change”, Karlsruhe Institute of Technology, Germany

Oliver FRÖR, leader axis “Multiculturalism & plurilinguism”, University of Koblenz-Landau, Germany

Armin GRUNWALD, co-leader axis “Energy, infrastructure & social change”, Karlsruhe Institute of Technology, Germany

Philippe HAMMAN, leader axis “Governance”, University of Strasbourg, France

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