

EUROPEAN INTERNATIONAL CONFERENCE

on

TRANSFORMING URBAN SYSTEMS

Environment · Sustainability

<https://eictus-2019.sciencesconf.org>



PROGRAMME

Organised by ZAEU

26 - 28 June 2019

Université de Strasbourg, France





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Designed by:

Sajjad Hussain SAJJAD (PhD)
Nadège BLOND (PhD)
Laboratoire Image Ville Environnement
Université de Strasbourg
France.

Table of contents

Title	Page number
Zone Atelier Environnementale Urbaine	1
Welcome message of EICTUS 2019 organisers	2
EICTUS 2019 context	3
Scientific committee	5
Major features of EICTUS 2019	6
Framework of conference talks	7
Conference partners	9
Keynote speakers	10
Conference daily schedule	12
The City of Strasbourg	27
Transport network of Tram system	29
Important maps	30
List of participants	33
Acknowledgement	39

Zone Atelier Environnementale Urbaine

The Zone Atelier Environnementale Urbaine (ZAEU, <https://zaeu-strasbourg.eu>) is an interdisciplinary research network. It is part of the Réseau des Zones Ateliers (RZA) of the Institute of Ecology and the Environment (INEE) of the National Center for Scientific Research (CNRS), France. It is also part of the Long-Term Ecosystem Research in Europe (eLTER, <http://www.lter-europe.net>). Long-Term Ecosystem Research (LTER) is an essential component of world-wide efforts to better understand ecosystems. ZAEU is supported by the University of Strasbourg through the involvement of ~100 research scientists working in 13 research laboratories covering several fields and disciplines (LIVE – UMR 7362, ICPEES UMR 7515, LHyGes – UMR 7517, GMGM – UMR 7156, GESTE, CAMB – UMR 7199, IPHC – UMR 7178, ICUBE – UMR 7357, AMUP, DynamE – UMR 7367, E3S – EA 1342, BETA – UMR 7522, Herbarium de l'Université de Strasbourg) and several services of the Strasbourg city authorities, Strasbourg Eurometropole (EMS). The main objective of the ZAEU is to co-build common knowledge to face current and future environmental issues in a logical sustainable urban development. This co-understanding is based on a long-term observation of the processes and dynamics of the eco-social system. This involves understanding through the analysis of information collected, measured or simulated, the validation of these processes, the proposal of scenarios for the future, but also the exchange of information with local authorities to quickly applied results.

Six groups were formed to initiate this joint work. They bring together, of course, the local skills and the interested actors. Major research groups of the ZAEU are as under:

- Energies, Pollution de l'Air, Climat / Energies, Air Pollution, Climate
- Evolution urbaine et occupation des sols / Urban evolution and land use
- Risques et eau / Risk and water
- Biodiversité et agriculture urbaine / Biodiversity and urban agriculture
- Rudologie et filière déchet / Rudology and waste industry
- Mobilité – Activité physique – Santé / Mobility - Physical Activity – Health



Welcome message of EICTUS 2019 organisers

Dear colleagues,

On behalf of the “Zone Atelier Environnementale Urbaine (ZAEU)” and the Organizing Committee of EICTUS 2019, we are highly delighted to welcome you all in the European International Conference on Transforming Urban Systems (EICTUS 2019) and in the city of Strasbourg, the European Capital for three days from 26-28 June 2019.

The objective to organize the EICTUS 2019 is to bring together all the actors working on urban environment at national and international scale. It aims at sharing the experiences and create an international dynamic to find collective solutions to environmental and social problems that are arising progressively in many cities of the world.

We wish and hope that you will enjoy this beautiful city through sharing knowledge, learning on new research topics, developing new research networks and providing the real solutions for the development of sustainable cities during the conference.

We wish you a wonderful stay and thank you all.

Sincerely,



Nadège BLOND (PhD)
EICTUS 2019 Conference Chairperson
CNRS Research Scientist & Deputy Director ZAEU
Laboratoire Image Ville Environnement
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Isabelle CHARPENTIER (PhD)
CNRS Research Director
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UMR 7357 CNRS, Université de Strasbourg
France

EICTUS 2019 Context

Global trends show that the world population is growing with 250,000 new human beings per day, or 100 million a year. This significant growth of the population, coupled with a phenomenon of globalization and an increase in the average standard of living of individuals, first of all poses the problem of energy resources. In fact, major part of this energy, almost 96%, is produced from fossil fuels (petrol, natural gas, coal). These fossil fuel resources are limited, and they are likely to become scarce because of their extensive consumption. Without a major transformation in our lifestyles, associated with the use of other energy resources, a scarcity of fossil resources is to be expected in less than a hundred years, which could lead to economic and social troubles. Thus the magnitude of these future issues are still difficult to predict.

The use of fossil fuels also poses environmental problems (pollution of water, soil, air, and all that results from it - loss of biodiversity, reduction of vital resources, etc.). Its combustion notably releases gaseous and particulate species into the atmosphere that are highly harmful to human health and ecosystems, and greenhouse gases (GHGs) that warm the climate on a global scale. The consequences of air pollution on health and associated costs are well identified. The possible consequences of climate change on our societies are also clearly identified. The scenarios to reduce the Greenhouse gas are proposed to prevent the atmosphere from global warming by more than 1.5°C compared to the pre-industrial era. The current legislation should lead to a warming of 3 to 5°C. If those values are not reviewed, according to the specialists, it pushes us towards a very uncertain future. The observations made on different areas across the world already show very significant impacts on the water resources (strong droughts), on the crops (lower yields) and thus on the basic food of our food chain.

Another observation is that the population is more and more concentrating in the cities. Since 2007, the population of cities represents more than 50% of the world population. By 2030, this percentage is expected to exceed 60%. Today almost 75% of total global energy is consumed in urban areas. Favored by the dense presence of polluting activities and urban objects, very localized peaks of concentrations of a large number of harmful pollutants such as particles, nitrogen oxides and certain hydrocarbons are observed in urban atmosphere. If the reduction strategies of air pollution are not associated with the significant growing of the urban population, it will pose even more health problems.

Urbanization, through the alteration of natural land into artificial surfaces, the horizontal and vertical extension of buildings, the activities they generate, and the amount and type of energy they consume, also raises the problem of local warming of cities, the urban heat island, which tends to make cities populations even more vulnerable to climate change and air pollution. Some advantages of these urbanized spaces are to be exploited: they concentrate the activities, well developed thus they can limit the needs of energy and

resources through sharing these resources; urban heat island reduces winter energy needs in the coldest countries, and increases the atmospheric mix of air pollution.

Awareness of the environmental problems created by our lifestyles associated with their direct and indirect costs (present and future) is progressively increasing and regularly drives the policies to take measures to reduce the impacts of human activities and ensure the sustainable development of our societies. But what is a sustainable or durable future? How to qualify sustainability? Which indicators can be used? All of these questions need to be addressed quickly in order to evaluate the actions that should be taken.

The research (public and private) is currently strongly mobilized to ensure technological innovation in all sectors (building, materials, mobility, informatics, etc.), which will enable us to reduce our impacts. The actors involved in spatial planning must also accelerate the integration of energy and atmospheric issues in their development projects and in particular those affecting the cities (production and distribution of energy, mobility, buildings, agriculture, waste, tourism, economic development, etc.). They must ensure that all projects lead to a drastic reduction in our energy consumption, to a better air quality that respects the health of ecosystems, to a climate protection and its effects, short and long term. Thus, the problems of the city become more and more multidisciplinary.

Today the cities are a place of all issues since they welcome, and will continue to host most of the population for a long time. However, tools and knowledge in urban areas have yet to be developed, as the urban environment is complex because of its heterogeneity, and its dynamics of evolution are strongly influenced by localized sectoral policies that are not always consistent.

In this context the EICTUS 2019 conference proposes to bring together all the actors working on different themes of the city and the urban environment on an international scale. The "European International Conference on Urban Transforming System" is a project that aims to create a dynamic European and International, to promote interdisciplinary research work and multi-sites, and to find collective solutions to environmental problems that arise in all cities of the world.



Scientific Committee

Air, Climate (risks, resilience, vulnerability, adaptation), Energy

- Dr. BLOND Nadège (LIVE, Université de Strasbourg, CNRS, France)
- Dr. SAJJAD Hussain Sajjad (LIVE, Université de Strasbourg, CNRS, France)

Mobility

- Dr. JOCHEM Patrick (DFIU & IIP, KIT, Germany)
- Dr. PIOMBINI Arnaud (LIVE, Université de Strasbourg, CNRS, France)

Adaptation to climate change

- Dr. GRANDCHAMP Laurence (DYNAMIE, Université de Strasbourg, CNRS, France)

Urban governance, economy

- Prof. BARBIER Rémi (GESTE, ENGEES, IRSTEA, France)

Public initiatives, planning, society and environment and risks

- Dr. GLATRON Sandrine (DYNAMIE, Université de Strasbourg, CNRS, France)

Health and social inequalities

- Dr. KIHAL Wahida (LIVE, Université de Strasbourg, CNRS, France)
- Dr. KNOBE Sandrine (E3S, Université de Strasbourg, France)

Landcover landuse change, urban sprawl, urban forms

- Dr. HERRAULT Pierre-Alexis (LIVE, Université de Strasbourg, CNRS, France)
- Prof. PUISSANT Anne (LIVE, Université de Strasbourg, CNRS, France)

Urban agriculture, nature in cities

- Dr. MASSEMIN Sylvie (IPHC, Université de Strasbourg, CNRS, France)
- Dr. GEORGES Jean-Yves (IPHC, Université de Strasbourg, CNRS, France)

Sustainable urbanism and architecture

- Prof. GRIGOROVSKI Andreea (AMUP, ENSAS, France)

Urban water and sustainability

- Dr. CHARPENTIER Isabelle (ICUBE, Université de Strasbourg, CNRS, France)
- Dr. LAURENT Julien, (ICUBE, ENGEES, Université de Strasbourg, CNRS, France)
- Dr. WANKO Adrien (ICUBE, ENGEES, Université de Strasbourg, CNRS, France)

Smart, sustainable buildings and housing

- Prof. HAMMAN Philippe (SAGE, Université de Strasbourg, CNRS, France)
- Prof. WIRA Patrice (IRIMAS, Université de Haute Alsace, CNRS, France)

Major features of EICTUS 2019

The core principles aspects of the conference are as following:

Interdisciplinary

The major objective of this event is to organize an interdisciplinary international conference to bring together researchers, practitioners, and scholars from a wide range of research areas related to urban environment. People working in the fields of geography, built environment, engineering, architecture and town planning, atmospheric physics and chemistry, building and energy, transport, climate change, population and public health, air and water quality, sciences of urban models, urban ecology and green infrastructure, meteorology, public policy, urban governance, environmental and sustainable engineering and solid waste management are major participants of this conference.

Conference themes

Conference themes are selected in a way which may be interesting and have interdisciplinary concepts from different research areas. Although the major themes are focused on urban environment, there is a wider range of other interlinked topics related to urban environment which are considered and are included as ones of the themes. The objective of selecting number of themes related to urban environment will allow the participants to find the solutions toward sustainable cities through outcomes of multiple results which are being presented in this conference.

International

This conference offers a meaningful opportunity to engage with scholars participating from different countries of the world and to provide them a scientific forum to present their research work and to interact with other scientific persons to establish research network according to one's expertise. The delegates from almost 30 different countries are participating in this conference offering the diversity of cultures and perspectives.

Inclusive

The conference is open for everyone whose scholarly work is relevant to the conceptual themes. It provides the chance that all stakeholders (academia, students, urban planners, policymaker, city administration etc.) are willing to participate.

Framework of conference talks

The conference formal and informal sessions are framed as under.

Plenary sessions

There will be three plenary sessions in which the world's renowned scientists with expertise in urban climate, air pollution, architecture & sustainable designs will deliver their Plenary talk. Every day, the first session of the day is devoted to a plenary session lasting for one hour including questions and answers.

Themed Paper Presentations

Formal paper presentations will be grouped by the general themes of the conference and will be presented in different parallel sessions and in different conference halls. Each session will range from one hour to one hour thirty minutes depending on the selected theme. The duration of each themed paper presentation will be fifteen to twenty-minute including Q&A session. There will be a five to ten minutes' group discussion at the end of each session to summarize the talk of all presenters. Session Chairmen-women will take the responsibility of conducting the sessions of themed paper presentations. They will formally introduce the speakers, manage the time for each presentation and facilitate the Q&A session and concluding discussion.

Poster Sessions

During the poster sessions, the poster presenting author showcases his/her research. It will allow viewers to read the given information on poster, see the affiliation of researcher and discuss it with the presenting author. The poster session will combine text and graphics to make a visually pleasing presentation. As viewers walk by, the poster should quickly and efficiently communicate the importance of given research topic. The presenters are encouraged to think ahead about engaging ways that attendees can interact with the information or as they walk through the poster session section of the exhibit hall.

Workshop on Sustainable cities

On the 2nd day of the conference, there will be a Workshop Sessions of at least one hour for the all the participants. It can be in one single room or it can be in two different rooms depending upon the nature of discussion and participation. The objective of this session is to offer an opportunity to the participants to discuss on topic of sustainable cities, nature, needs and plans and exchange the ideas, methodologies, results, experiences to find the solutions of future sustainable cities. It will be highly useful for all participating delegates to get the best implementable ideas from experiences of other participants coming from different countries. There will be a session chairman-woman who will introduce the topic of discussion. He/she will be responsible to supervise the discussion and provide chance to each participating member to share his/her point of view during this particular session.

E-Session

There are many researchers across the world who are really interested to participate and want to present their work before scientific community. However, some of them could not succeed to get the travel grant from their respective institutes/research labs/universities. Others could not succeed to get the visa. To facilitate all those researchers to present their work, the organizing committee has planned to provide them opportunity via online presentation. There is no registration fee for this session.

Innovative project discussion

The interested delegates, who wish to initiate innovative research projects and find the global research collaborators/team members, can present their project during the round table session. This is an optional part of the conference depending on the interest and request of the distinguished delegates.

Gala dinner

The participating delegates will have a wonderful evening of Gala Dinner where they can have informal conversation with session chairs, organizers, collaborators and meet the plenary speakers. They can discuss the research related issue, projects, publications and can discuss about future plans. However, this forum will be limited to the participants who may already have reserved their place.

Venue of gala dinner

Le Jardin de l'Orangerie (www.jardinorangerie.fr)

Parc de l'Orangerie, Strasbourg.



Conference partners



Designing contribution

EICTUS Theme Logo:

Philippe Lapointe (Studio Lapointe), Bischheim – France.

Contact: <http://www.studio-lapointe.com/contact/>

Flyers, Posters, Kakémono Roll up, Conference name tags, Certificates, Proceedings and Programme's cover pages:

Nima Parood and Seyedeh Sara Saadati

Contact: nima.parood@gmail.com ; saadati.sara@gmail.com

Keynote Speakers



Prof. Dr. Valéry Masson works as senior member at National Centre for Meteorological Research - UMR 3589 associated with CNRM - GAME (URA CNRS & Météo-France), GMME/TURBAU. He is part of Mesoscale Meteorology Department, Turbulence, Fog and Urban Climate.

So far he has supervised 18 PhD thesis, with credit of more than 100 peer-reviewed publications in world renowned high impact factor journals, member of several research and scientific committees, incharge of many research groups across Europe and the world.

He was the Chief Organizer of 9th International Conference on Urban Climate (ICUC9) which was held in Toulouse (France) from 20th -24th July 2015 in which more than 400 participants participated (<http://www.meteo.fr/icuc9/>).

He is the founding Editor of Urban Climate journal and is now affiliated as Associate Editor of this journal (<https://www.journals.elsevier.com/urban-climate/editorial-board>). The scientific expertise of Dr. Valéry Masson includes

- Cities and Climate Change
- Interaction between cities and climate heating, energy consumption by human activities, economic activities in cities and its impacts on modifications of weather, growing cities and technology or inhabitants way of life evolution.
- What influences the urban growth and what could be the possible city expansion?
- What are the impact of these interactions in term of urban climate, energy consumption, CO₂ budget, in-city renewable energy production, inhabitants comfort?
- Coordinator of the CAPITOUUL campaign dedicated to the observation of the urban climate and aerosol-dynamics interactions over Toulouse (France).
- The development of Town Energy Balance scheme
- Development of Surface-Vegetation-Atmosphere Transfer Models
- Development of Turbulence and Atmospheric models

For details, please browse the following web links:

<https://www.umr-cnrm.fr/spip.php?article241&lang=en>



Prof. Dr. Cristiana Mazzoni is an Architect, Urban designer and Professor of Architecture and Urban design in the National Architectural school of Paris-Belleville. During her academic career she has been teaching as visiting professor in Italy, Germany, France, Spain, USA and China. She is the director of UMR AUSser, in the framework of the French Scientific Research Center (CNRS) and member of the Metropolitan Development Council of Strasbourg. Still 2015 she is the scientific co-director of the Chinese and French “Innovative metropolitan mobility” IMM-Chair (ENSAS-SYSTRAC-CAUP/Tongji).

For further details, please visit her web page at:

<http://www.umrausser.cnrs.fr/umr-ausser-english-version>



Prof. Dr. Alain Clappier is affiliated with Laboratoire Image Ville Environnement, Université de Strasbourg France. He is expert in air quality modelling and integrated assessment modelling. He is invited professor at the European Joint Research Center in Ispra (Italy), and at the Swiss Federal Institute of Technology in Lausanne (EPFL) where he also remained the leader of a research group specialised in air quality modelling from 1998 to 2008. His major tasks remained the development of different numerical models, the meteorological model FVM (Finite Volume Model), the air quality model TAPOM (Transport and Photochemistry Mesoscale Model), the emission model EMISENS (Emission Sensitivity), SHERPA model (Integrated assessment modelling), and now energy model.

He has served as an invited professor and speaker at many of the international conferences and research institutes. He has vast academic, research and policy making experience about air quality studies, research in different cities, Milan (Italia), Madrid (Spain), Grenoble (France), Strasbourg (France), Los Angeles (USA), Mexico, Bogota (Colombia), Ho Chi Min (Vietnam).

Conference Daily Schedule

Oral presentations

Wednesday, 26th June 2019

08:00-09:00 Registration

09:00-09:15 Welcome message of UNISTRA

09:15-09:30 Welcome message of Nadège Blond & Sajjad Hussain Sajjad: Short introduction of ZAEU, context of this conference and the expectations.

Plenary session 1: **Advanced Urban Governance based on Mapping. The "Liveable city" as case of study. (CRISTIANA MAZONNI)**
09:30-10:30

10:30-11:00

Tea and coffee break / Poster presentation

11:00-12:30

SUSTAINABLE BUILDINGS & HOUSING

Session Chair:

Amphitheater AT8

The refurbishment of abandoned industrial areas with adaptive re-use strategies: analysis of decision making models and design criteria

VIZZARRI Corrado, Polytechnic University of Bari (Italy)

How pollutant concentrations evolve in step-down street canyons as a function of buildings geometric properties

REIMINGER Nicolas, Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (France)

A data-driven approach for user behavior prediction to boost productivity and sustainability of data centers and cloud-supported working environments

WIRA Patrice, IRIMAS (France)

Rainwater harvesting from urban rooftop buildings for recharging groundwater

ASIM Mohammad Irfan, Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie, UMR 7357 (ICube), Université de Strasbourg.

Walking the Neighborhood: When alleyways matter in network efficiency

ALAMERI Hind, Khalifa University, (United Arab Emirates).

Quantitative environmental assessment of development operations from the early stages of the project in Strasbourg metropolis (France)

BALLOT Emmanuel, AMUP laboratory (France)

11:00-12:30

URBAN WATER

Session Chair:

Room : AT4

Large scale constructed wetland planted with *Echinochloa pyramidalis* (Lam.) Hitchc. as sustainable solution for domestic wastewater from social residential house in Yaounde, Cameroon

DJUMYOM Wafo Guy Valerie, University of Yaounde 1 (Cameroon).

Comparison of Biological and Nanofiltration methods to reduce the BOD5 of industrial wastewater for the reuse and access to sustainable water resources in urban areas, A case study of Najaf Abad in Iran

SAADATI Seyedeh Sara, Natural Resources Engineering, University of Technology, Isfahan (Iran).

Waste water as a renewable source for urban heat supply - Current situation in Austria

KRETSCHMER Florian, University of Natural Resources and Life Sciences, Vienna (Austria).

Spatial and temporal variations in the performance of indirect drain water heat recovery systems in wastewater treatment plants

SPRIET Jan, Trinity College Dublin (Ireland).

Rainwater management in dry gardens of Zen-Buddhist monasteries in Japan: Survey for designing attractive raingardens adaptive to climate change

YAMASHITA Sampei, Kyushu Sangyo University (Japan).

11:00-12:30

LANDUSE ANALYSIS

Session Chair: Anne Puissant

Room : AT3

Evaluating Street Centrality and its Correlation with the Land Uses: The Case of Abu Dhabi Neighborhoods

ARAFAT Maram, Khalifa University (United Arab Emirates).

Geospatial analysis of urban land-use change using high resolution satellite images: implications for ecological sustainability

AKUBIA John E. K, Universität Trier (Germany).

From Global to Local: The Efficiency of the Neighborhood Planning Unit

ALRUBAEI Eiman, Khalifa University, (United Arab Emirates).

Activating spaces of common good and the possibilities of a new urban way of life: Considerations about a community garden in the city of Belo Horizonte, Minas Gerais. (Brazil)

BITENCOURT Gabriela, Escola de Arquitetura da Universidade Federal de Minas Gerais (Brazil)

Infrastructure development influence in land use dynamics pattern in small towns: Lessons from Handeni Town

SANG'ENOI Maglan Charles, Ardhi University (Tanzania)

Sustainable public lighting for informal settlements

KRETZER David M, Institute of Science, Technology and Policy, ETH Zürich (Switzerland).

12:30-13:45

Lunch break

14:00-15:00

MOBLITY

Session Chair:

Amphitheater AT8

Decision makers, scientists, and the public as stakeholders: the connection between traffic intervention policy and air quality in a local context

SCHMITZ Sean, Institute for Advanced Sustainability Studies, Potsdam (Germany)

Space syntax as support for mitigation of urban mobility colplexity: case study in latin American

VASCO Barbosa, Autopista Norte de Bogotá. Chía, Cundinamarca - (Colombia).

Urban transport policy for Electrification in France

MINAMI Soichiro, Chuo University (Japan), 2 - FFJ-EHESS (France).

Local solution for smart and intelligent mobility developed in Nancy

BERTRAND Vincent, Lorraine INP (France), 2 - Centre de recherche en géographie (France).

14:00-15:00

WATER AND SOIL ENGINEERING

Session Chair:

Room: AT4

Micropollutants in the sewage system : making one's own cleaning products to limit pollution?

BARBIER Rémi, ENGEES (France), Irstea (France).

Harnessing the potentials of evolutionary computation via the integration of rights-based distributive principles in water demand management

OYEBODE Oluwaseun, Centre for Research in Environmental, Coastal and Hydrological Engineering (CRECHE), Department of Civil Engineering, University of KwaZulu-Natal (South Africa).

Sustainable waterscape driven by Living Lab and polycentric governance

ZINGRAFF-HAMED Aude, Technical University of Munich, Chair for Strategic Landscape Planning and Management (Germany).

Soil phytoremediation as sustainable and low-cost technology to mitigate PAHs pollution in urban area

PULCHERIE Matsodoum Nguemté, Université de Strasbourg (France).

14:00-15:00

ECONOMY to SOCIAL ECONOMY

Room : AT3

Session Chair:

Housing Solutions for Pakistan: Targeting and Facilitating Private Sector Investors

JERRAL Zoona, COMSATS Institute of Information Technology, Islamabad (Pakistan).

Subjective well-being in a European city: The case of Strasbourg metropolis

NGUYEN-VAN Phu, BETA, CNRS, INRA, Université de Strasbourg (France).

How Urban Design Facilitates Everyday Urbanism. Evidence from an Abu Dhabi Neighborhood

ALAWADI Khaled, Khalifa University (United Arab Emirates).

Citizen community composting: a practice in the heart of transitions

GLATRON Sandrine, LTSE France - Zone atelier environnementale urbaine (France), Dynamiques Européennes (France).

15:00-15:15

Tea and coffee break / Poster presentation

Social events on 26th June 2019

15:15-17:15

GROUP VISIT OF EUROPEAN PARLIAMENT STRASBOURG



18:30-20:00

Welcome reception, Discourse and refreshment by Eurometropole de Strasbourg

Oral presentations

Thursday, 27th June 2019

09:15-09:30 Welcome message to participants

Plenary session 2: How to include Urban Climate issues in Urban planning? From urban and social data production to legal documents. (VALÉRY MASSON)
09:30-10:30

10:30-11:00 Tea and coffee break / Poster presentation

11:00-12:30 **AIR POLLUTION** Amphitheater AT8
Session Chair:

Multiple sources of air pollutant PM2.5 in an industrial and port city Kaohsiung, Taiwan

GUO Yue Leon, National Institute of Environmental Health Sciences, National Health Research Institutes, Taiwan; and Environmental and Occupational Medicine, National Taiwan University (NTU) College of Medicine and NTU Hospital, Taipei (Taiwan).

Source apportionment of the particle number concentration near the Amsterdam Airport Schiphol using positive matrix factorization (PMF)

SIOUTAS Constantinos, University of Southern California (United States).

Using high resolution air quality models to analyse urban air pollution abatement measures

MARTIN Fernando, Research Center for Energy, Environment and Technology (Spain).

How can noise barriers reduce pollutant exposition: an example of built area near a highway

REIMINGER Nicolas, Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (ICube) ; Université de Strasbourg : UMR7357. 300 bd Sébastien Brant - BP 10413 - F-67412 Illkirch Cedex - (France).

How to insure good indoor air quality?

BLOND Nadège, Laboratoire Image Ville Environnement, UMR7362 CNRS, Université de Strasbourg (France).

Near Road Air Pollution Modelling using vehicular emission and dispersion model and validation with in situ measurement

CHAURASIA Ashish, Department of Civil Engineering (India).

11:00-12:30

FOOD & AGRICULTURE

Room : AT4

Session Chair:

Urban innovation challenges: smart urban agriculture towards the sustainable transformation of industrial parks in China

KIM Joon Sik, Liverpool University, Suzhou (China).

Social impacts on the adoption of organic food products: A meta-analysis of consumer behavior

QUANG-HUY Nguyen, BETA, CNRS, INRA, Université de Strasbourg, (France).

Modelling a Smart Urban Food System through metabolic optimization integrated into urban planning in Algiers (Algeria)

SACI Houda, Ecole Polytechnique d'Architecture et d'Urbanisme (Algeria).

URBAN CLIMATE & MITIGATION

Room: AT4

Urban transformation and heat island: Potential of urban design alternatives to mitigate the effects of urban overheating in Austrian cities

VUCKOVIC Milena, AIT Austrian Institute of Technology, Vienna (Austria).

Greening strategies for heat mitigation in a subtropical high-density city, Hong Kong

MORAKINYO Tobi Eniolu, Institute of Future Cities, Chinese University of Hong Kong (Hong Kong SAR).

The influence of pavement colour on urban canyons temperature: A study through a reduced scale model in small-sized cities

KOWALSKI Luiz Fernando, Federal University of São Carlos (Brazil).

12:30-13:45

Lunch break

14:00-15:30

BIODIVERSITY

Amphitheater AT8

Session Chair:

What nature in the city of tomorrow? Toward a new paradigm about exoticism

GEORGES Jean-Yves, Institut Pluridisciplinaire Hubert Curien, UMR7178 (France).

The perceived restorative qualities of botanical gardens in the urban context

SPANO Giuseppina, Department of Education, Roma Tre University, Rome, (Italy).

Predicting urban park users' postures on exotic turtles management

PHILIPPOT Véronique, LTSER France, Zone Atelier Environnementale Urbaine (France).

Computer-assisted assessment of biodiversity in Strasbourg metropolis (France): the case of the exotic freshwater turtles

CHARPENTIER Isabelle, Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie, UMR 7357 (ICube) Université de Strasbourg, CNRS : UMR7357 ; LTSER France, Zone Atelier Environnementale Urbaine (ZAEU), 3, rue de l'Argonne, F-67000 Strasbourg (France).

Can forests take the heat? Managing pests and ecosystem services in urban landscapes

FRANK Steven, North Carolina State University, Raleigh, (United States).

ENERGY

Amphitheater AT8

A Comparison Between Two Urban-Scale Methods for the Assessment of Heat Energy Demand and Photovoltaic Potential in New York City, USA

HUSSEIN Ahmed, Centre for Sustainable Energy Technology, University of Applied Sciences Stuttgart, Stuttgart (Germany).

14:00-15:45

URBAN CLIMATE & MITIGATION

Room : AT4

Session Chair:

Trees and efficient green façades for adaptation to climate change in tropical cities of Brazil

LABAKI Lucila, University of Campinas (UNICAMP) (Brazil).

Strategies to improve urban and landscape condition on communities affected by and periodical floods linked to climate change

PEREZ Lopez Irene, School of Architecture and Built Environment, University of Newcastle (Australia).

Investigating the Dynamics of Urban Heat Islands of Ahmedabad city of India using Satellite data, Statistical Analysis and GIS

KANDYA Anurag, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar 382007 (India).

Strategies to mitigate the urban heat islands in the context of climate change

MAUREE Dasaraden, Solar Energy and Building Physics Laboratory, Ecole Polytechnique Fédérale de Lausanne (LESO-PB / EPFL) (Switzerland).

Effect of green technologies on urban microclimate

MOGHBEL Masoumeh, University of Tehran-Tehran (Iran).

Contribution from vegetation and urban geometry to the mitigation of the urban heat island effect

PHILIPPS Nathalia, Ville et Eurométropole de Strasbourg (France).

Evaluating the optimal Blue Cover for mitigating the urban heat island effect using ENVI-met Software

KHATRI Dishant, Pandit Deendayal Petroleum University (India).

15:30-16:30

Tea and coffee break / Poster presentation

16:30-18:00

What is sustainable city? - Group Discussion / Workshop

Amphitheatre AT8

GALA DINNER AND BOWLING FOR PARTICIPANTS WHO REGISTERED FOR IT AT THE TIME OF REGISTRATION AND HAVE INVITATION LETTER

19:00-22:00

VENUE

Jardin de l'Orangerie, Parc de l'Orangerie, 67000, Strasbourg, France.



Oral presentations

Friday, 28th June 2019

09:15-09:30 Welcome message to participants

Plenary session 3: 09:30-10:30 What is expected in a near future? - CONFERENCE WILL BE ADAPTED TO THE FINAL PROGRAM. (ALAIN CLAPPIER)

11:00-12:30	SUSTAINABLE CITIES Session Chair:	Amphitheater AT8
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The risk of water, energy, and food nexus under regional metabolism for multi-sector city

CHEN I-Chun, Department of Natural Resources, Chinese Culture University (Taiwan).

CLEVER-Cities? Interlinking urban and European indicator data to monitor the effects of nature based solutions

HAUBOLD Herbert, Umweltbundesamt UBA GmbH (Austria).

Fostering sustainable mobility in the upper rhine region (The SuMo-Rhine Project)

JOCHEM Patrick, Karlsruhe Institute of Technology (KIT), French-German Institute for Environmental Research (DFIU), Karlsruhe (Germany).

Encouraging the eco-mobility in context of sustainable urban mobility planning evaluating the EcoMobility capacities of Bozcaada island in context of sustainable transportation

AHMETI Shqiprim, University for Business and Technology (Kosovo).

Resilience and collapse in urban systems

GARCIA Emilio, The University of Auckland (New Zealand).

Evaluation of direct or indirect presence of Urban Resilience in Municipal Sanitation Plans: case study in four municipalities in São Paulo State, Brazil

TEIXEIRA Bernardo Arantes do Nascimento, Dep. Engenharia Civil, PPG Engenharia Urbana, Universidade Federal de São Carlos (Brazil).

12:30-13:00	CONCLUSIONS : Presentation of final results of the conference and discussion about future activities
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13:00-13:15	Distribution of Lunch boxes to the participants who reserved at the time of Registration
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E-Session presentation

(Presentation time: 12 Minutes)

Thursday, 27th June 2019

11:00-12:30

CLIMATE, SUSTAINABLE CITIES

Room AT3

Climate smart transformations in Asian cities: alternative approaches and future drivers for solid waste management case of smart cities in India

PATIL Dhanraj A, Département of Sociology, Walchand Collège of Arts and Science, University of Solapur (India).

Is Lahore's urban system ready to sustain climate change?

NAWAZ Muhammad Shafaat, University of Management and Technology, Lahore (Pakistan).

Impact of ecological degradation on urban areas' temperature: The case of Lahore in Pakistan

SHAH Syed Javed, Department of Geography, University of the Punjab, Lahore (Pakistan).

Shaping India's future by building smart future sustainable cities

KANDPAL Vinay, University of Petroleum and Energy Studies, Dehradun, (India).

Hazard mapping of chlorine gases incident and it's simulation: a case study of coastal area of Boao Henan China

RAFAQAT Warda, University of Science and Technology of China, Hefei, Anhui (China).

SOCIAL CONTEXT

Room AT3

Exploring the relationship between financial literacy and citizen participation in investment. Moderating role of Government website use

MALIK Muhammad Jawad, School of Public Affairs, University of Science and Technology of China, Hefei, Anhui (China).

Urban spectacles: Urban festivals, urban social Space and the transformations of the urban form

DAS Anusmita, Indian Institute of Technology Guwahati (India).

The perceived restorative qualities of botanical gardens in the urban context

SPANO Giuseppina, Department of Agro-Environmental and Territorial Sciences, University of Bari A. Moro, Bari (Italy).

12:30-13:45

Lunch break

14:00-15:30

STRATEGIES

Room AT3

Thermal efficiency neighbourhoods design applying performance-based planning approach: the case of Mendoza-Argentina

SOSA María Belén, Instituto de Ambiente, Hábitat y Energía - (INAHE - CONICET), Mendoza (Argentina).

Impacts of renewable energy sources on sustainability issues, climate change mitigation and energy security in developing countries

YADAV Ashiwani, Government engineering college Raipur (India).

Hydraulic Engineering and Landscaping of a 16th century Mughal Gardens at Wah

RAJPUT Shahid Ahmad, COMSATS University, Sahiwal Campus, Sahiwal (Pakistan).

LANDUSE

Room AT3

Population growth and changes in residential land use of Bahawalpur City

KHAN Mehtab Ahmed, Department of Geography, University of Gujrat (Pakistan).

Environmental impact assessments of land-use changes in suburb of Tehran city

SHAMSIPOUR Aliakbar, Department of Physical Geography, University of Tehran Azin Alley, Tehran (Iran).

NATURE

Room AT3

Industrial waste and urban bio-diversity in developing country: Mapping aquatic biodiversity in Nepal

BISTA Raghu Bir, Lalitpur Metropolitan City 15 Lalitpur (Nepal).

Nature-based strategies for resilient cities: the case of green envelopes

PERINI Katia, Università degli studi di Genova (UNIGE-DAD), Genova (Italy).

Poster presentations

Wednesday, 26th June 2019

10:30-16:00

**SUSTAINABLE CITIES, LANDUSE ANALYSIS,
BUILDING ENERGY, URBAN FORMS, URBAN
WATER, URBAN SPRAWL**

CONFERENCE HALL

Study of sulfate removal using Nanofiltration compared to biological method to access sustainable water resources in urban areas, A case study of Najaf Abad in Iran

KOHANSAL Mohammad Mahdi, Department of Water Engineering, Irrigation and Drainage Engineering, (Iran).

Preparation of sulfur composite material for manufacturing of corrosive resistance building structures using petrochemical solid waste

PATEL Suchi, Pandit Deendayal Petroleum University (PDPU), Gujarat (India).

Impact of built-up areas on development of urban heat island in mega cities of Pakistan

SHIRAZI Safdar Ali, Department of Geography, University of the Punjab, Lahore (Pakistan).

The urban metabolism model as governing framework for understanding the urban heat island phenomenon

CASAGRANDE Elisa, Centre for Urban Transitions, Swinburne University of Technology (CUT, Swinburne University), Victoria (Australia).

The role of green infrastructure in microclimate enhancement: Evidence of Abu Dhabi neighborhoods

SCOPPA Martin, Khalifa University, Abu Dhabi, (United Arab Emirates).

Why have redevelopment attempts not enlivened Riyadh's city centre?

ALBHIJAN Sulaiman, University of Manchester, Manchester (United Kingdom).

Is there any room for a long term socio-ecological research on green roofs?

CHARPENTIER Isabelle, Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (ICube), Université de Strasbourg, CNRS Strasbourg (France).

Study of the Ribeirão João Leite bowl (Go, Brazil): a morphometric analysis and human actions

MARQUES Paulo, Cerrado Natural Resources, Goiano Federal Institute Goiás (Brazil).

Thursday, 27th June 2019

10:30-16:00

URBAN MOBILITY, POLLUTION, BIODIVERSITY, URBAN CLIMATE, URBAN PLANNING, SUSTAINABILITY AND RESILIENCE, URBAN ENVIRONMENT AND HEALTH

CONFERENCE HALL

Comparative assessment of temperature variability of two mega cities of South Asia: the case of Lahore in Pakistan and Dhaka in Bangladesh

SHAKRULLAH Khadija, Department of Geography, Forman Christian College (A chartered university) Lahore (Pakistan).

Investigating the impact of urban landuse on air pollution and surface temperature in Tehran

MAHMOODY Vanolya Narjes, University of Tehran, (Iran).

Study on method for synthetic precipitation data for ungauged sites in city using quantitative precipitation model

OH Jaiho (PKNU), Busan (South Korea).

Avoiding exposure to air pollutants may reduce kidney damage in type 2 diabetic patients

JUDITH Shiao, School of Nursing, National Taiwan University Taipei (Taiwan).

The coupling between in-situ measurement and simulation of indoor air quality using machine learning

BERGER Corentin, Laboratoire Image Ville Environnement (LIVE), UMR 7362, Université de Strasbourg (France).

Effects of trace metal elements cocktail on physiological stress in a passerine bird (*Taenopygia guttata*)

SAULNIER Agnès, Département Ecologie, Physiologie et Ethologie - Institut Pluridisciplinaire Hubert Curien (DEPE-IPHC) CNRS, Université de Strasbourg, Strasbourg (France).

Multichannel analysis of indoor-outdoor particle number concentration in a university building

BUCCHIANICO Alessandro Di Menno Di, Italian National Institute for Environmental Protection and Research (ISPRA), Rome (Italy).

Analysis of air pollution trends in Italy from 2008 to 2017

GIORGIO Cattani, Italian National Institute for Environmental Protection and Research (ISPRA), Rome (Italy).

Spatial variability and frequency of surface heat island in a small Brazilian city with continental tropical climate

MOREIRA Janaina, Faculty of Science and Technology, São Paulo State University (UNESP), 305 Roberto Simonsen street, 19060-900, Presidente Prudente, São Paulo (Brazil).

Studying the relationships and spatio-temporal distribution of urban heat and green spaces using remote sensing data

TEPANOSYAN Garegin, Center for Ecological-Noosphere Studies NAS RA (CENS), Yerevan (Armenia).

Pattern of national urban network in globalizing process (Case study of Iran metropolises and capitals)

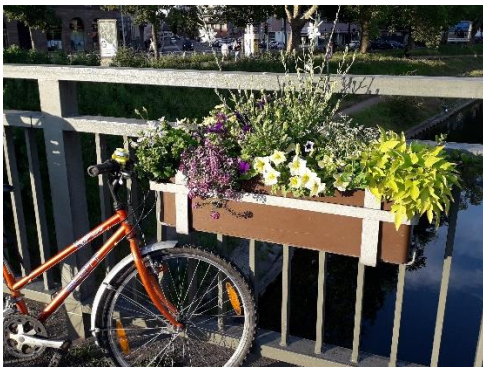
AHMADPOUR Maryam, University of Tehran (UT), Tehran (Iran).

Analysis of observed temperature trends over urban, town and rural areas of Pakistan

SAJJAD Sajjad Hussain, Laboratoire Image, Ville, Environnement (LIVE), CNRS, UMR7362 Strasbourg (France).

Role of *Chrysopogon zizanioides* in Immobilizing Contaminants during Phytoremediation of Crude Oil Contaminated Soil.

SULEIMAN Suleiman, The University of Birmingham (United Kingdom).



The City of Strasbourg

Strasbourg's 2000 year's history has taken it from being a prosperous merchant city to its current position as capital of the peoples of Europe, from a centre for humanist thinking to a thriving hub of creators and entrepreneurs. With its blend of cultures, innate tolerance, ecological awareness and embodiment of the European spirit, Strasbourg is a highly attractive, yet contemporary city and a multifaceted image, which is the basis of its originality (Eurometropole de Strasbourg, 2019).

Strasbourg, capital of Europe, has a historical and architectural heritage that makes it the richest city in Europe. The city center is part of UNESCO World Heritage where a number of historical buildings are present. The urban heritage is part of the conurbation's appeal and prestige. Maintaining and enhancing this heritage is an integral part of the city's daily tasks. It also forms the basis for urban projects for shaping the city of the future. In addition, the museums of the city are particularly rich and interesting. Strasbourg is obviously unavoidable not only for its monuments, but also to capture the different faces of Alsace region along the border of Germany.

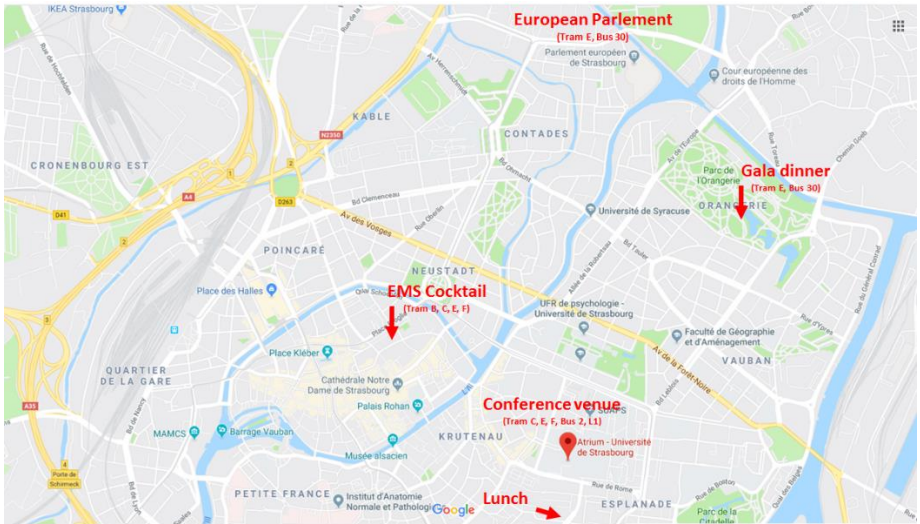
Strasbourg holds a keen place in European memory as a flashpoint in tumultuous history, but whereas in the past empires collided, now Europeans cooperate in the historic city. So Strasbourg not only has so much going for just because of its history and heritage but also as the formal seat of the European Parliament and other international institutions located in Strasbourg. Its position at the Carrefour of Europe creates a thriving, cosmopolitan vibe that combines the best of both worlds, old and new. Visiting the official seat of the European Parliament is a great way to understand the world's largest transnational parliament and to find out about its powers and role.





Important maps

General map for conference activities



Conference Venue

26-28/06/2019 ATRIUM, Université de Strasbourg, Campus Esplanade, 16 Rue René Descartes, 67000 Strasbourg



Lunch

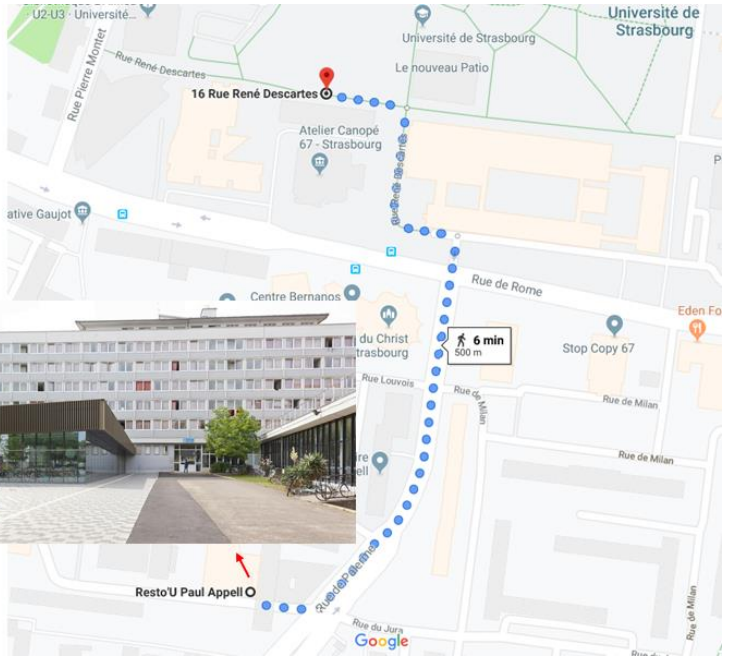
26-27/06/2019

at 12h45

Resto'U Paul Appell

23 Rue du Jura

67000 Strasbourg



Visit of European Parliament Strasbourg (26/06/2019 at 16:00)

1 Avenue du Président Robert Schuman, 67000 Strasbourg

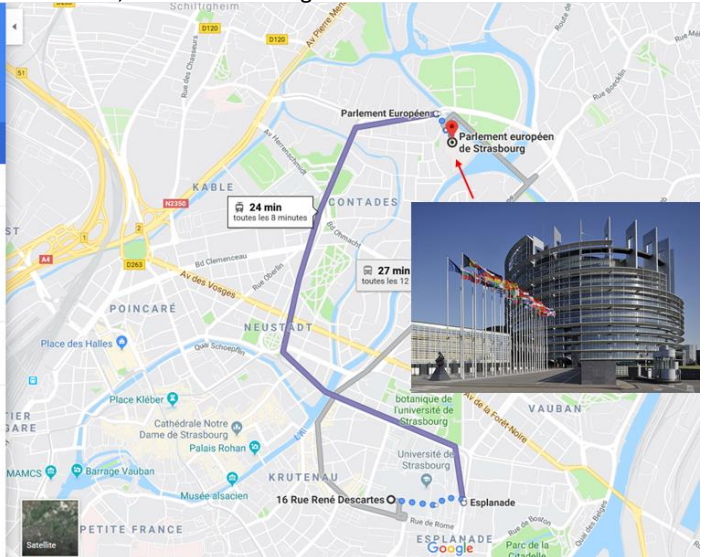
16 Rue René Descartes, 67000 Strasbo
Parlement européen de Strasbourg, 1 A

Partir maintenant

Envoyer l'itinéraire vers votre téléphone

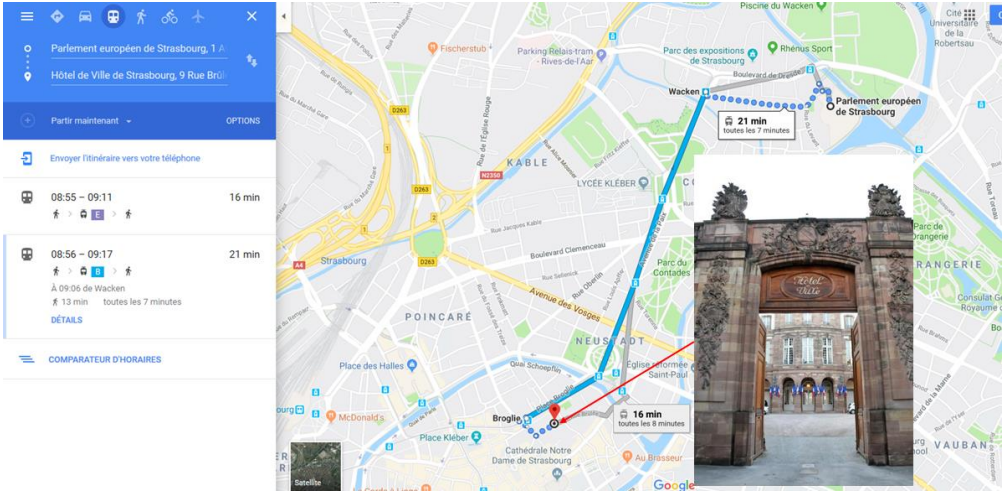
08:57 – 09:21	24 min
À 09:04 de Esplanade	
10 min toutes les 8 minutes	
DÉTAILS	
08:56 – 09:23	27 min
30 min toutes les 12 minutes	

COMPARATEUR D'HORAIRES



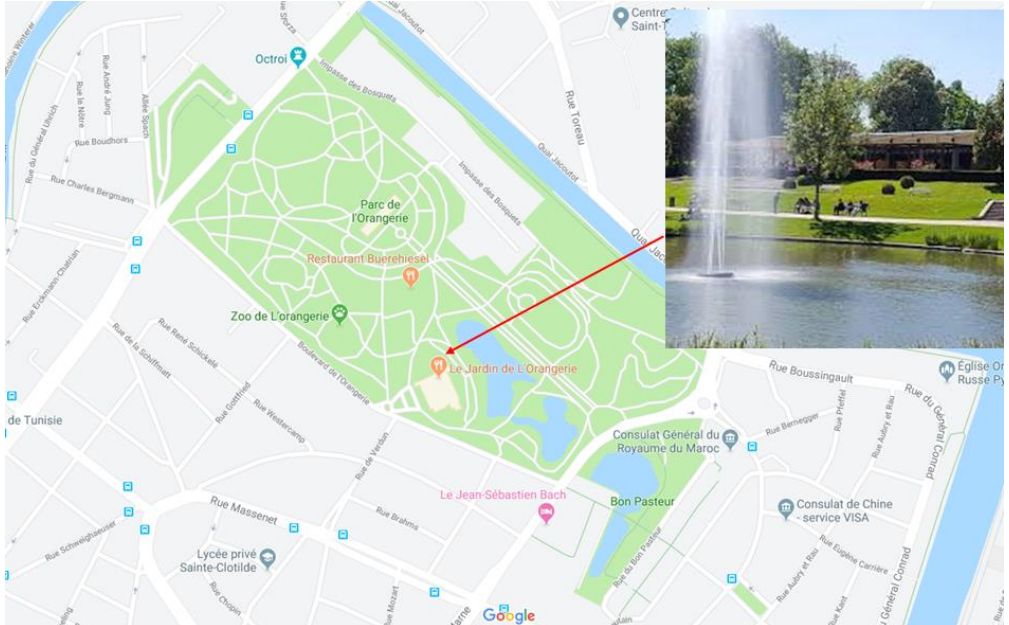
Welcome reception by Eurometropole de Strasbourg (26/06/2019 at 18:30)

At Hôtel de Ville de Strasbourg, 9 Rue Brûlée, 67000 Strasbourg



Gala Dinner at Le Jardin de L'Orangerie (27/06/2019 at 19:00)

Parc de l'Orangerie, 67000 Strasbourg



List of participants

Name of participant	Affiliation
AHMADPOUR Maryam	University of Tehran (UT), Tehran (Iran)
AHMETI Shqiprim	University for Business and Technology (Kosovo)
AKUBIA John E. K	Universität Trier (Germany)
ALAMERI Hind	Khalifa University (United Arab Emirates)
ALAWADI Khaled	Khalifa University (United Arab Emirates)
ALBHIJAN Sulaiman	University of Manchester (United Kingdom)
ALRUBAEI Eiman	Khalifa University (United Arab Emirates)
ARAFAT Maram	Khalifa University (United Arab Emirates)
ASIM Mohammad Irfan	Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie, UMR 7357 (ICube) CNRS, Université de Strasbourg LTSER France, ZAEU (France)
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SPANO Giuseppina	Department of Agro-Environmental and Territorial Sciences, University of Bari A. Moro, Bari (Italy)
SPRIET Jan	Trinity College Dublin [Dublin] (Ireland)
SULEIMAN Suleiman	The University of Birmingham (United Kingdom)
TEIXEIRA Bernardo Arantes do Nascimento	Dep. Engenharia Civil, PPG Engenharia Urbana, Universidade Federal de São Carlos (Brazil)

TEPANOSYAN Garegin	Center for Ecological-Noosphere Studies NAS RA (Armenia)
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VIZZARRI Corrado	Polytechnic University of Bari (Italy)
VUCKOVIC Milena	AIT Austrian Institute of Technology, Vienna (Austria)
WIRA Patrice	IRIMAS, CNRS, Université de Haute Alsace (France)
YADAV Ashiwani	Government Engineering College Raipur Raipur (India)
YAMASHITA Sampei	Kyushu Sangyo University (Japan)
ZINGRAFF-HAMED Aude	Technical University of Munich, Chair for Strategic Landscape Planning and Management (Germany)

Acknowledgement

The Organizing Committee of EICTUS 2019 would like to extend its sincere gratitude to all the conference partners, members of the scientific committee, participants, supporting staff, designers of logo and printing material, photographer and to all those who supported us in any ways to make this event possible.

On behalf of the Zone Atelier Environnementale Urbaine (ZAEU) and its management, we extend our special thanks to all those institutes, organizations, departments, research labs and the city council such as Région Grand Est, Eurométropole de Strasbourg (EMS), CNRS INEE, Université de Strasbourg (AAP IDEX 2019), ENGEES and PRIM'EAU for providing financial support for the successful organization of this conference. We are also thankful to all those persons of Université de Strasbourg who provided us their sincere and timely support (DALI, Cellule de Congress and College Doctoral European).

We would like to thank Directorate-General for Communication, European Parliament for facilitating our delegates to visit European Parliament in Strasbourg. We appreciate and acknowledge the hospitality of Eurometropole de Strasbourg to arrange the welcome reception on behalf of the EMS for the local and international delegates.

We also thank to all our distinguished delegates, participants and keynote speakers for their participation in this event.

Organizing team

EICTUS 2019

Page for notes

Page for notes

Page for notes

Page for notes

Page for notes

Conference Partners

