



EUCEET Association

NEWSLETTER 3/2017

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FROM THE EUCEET ASSOCIATION

EUCEET Association WORKSHOP 2017

Trends and challenges in civil engineering education in Europe

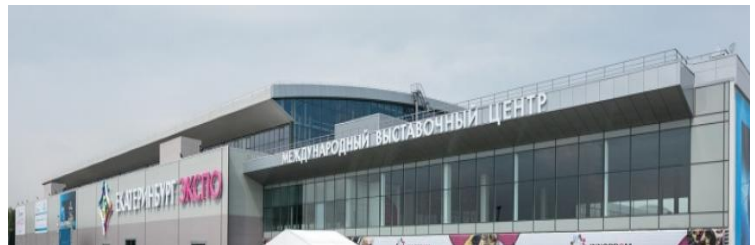
Ekaterinburg, Russia

5th October 2017

The EUCEET Association workshop "*Trends and challenges in Civil Engineering Education in Europe*", was incorporated in the programme of the 2nd day of the 100+ Forum Russia, on 05th October 2017 from 11.30 - 13.00 h.

Workshop Venue

The venue of the workshop is:
International Exhibition Center
"Ekaterinburg-EXPO", hall №7
Address: 2 EXPO Blvd.,
Ekaterinburg 620060, Russia
Website: www.ekaterinburgexpo.ru



Moderators:



Vladimir Alyokhin

Head of the Department of CAD Systems for Civil Engineering, Ural Federal University



Laurie Boswell

Professor of Civil Engineering, City University, London, UK
President of the EUCEET Association

Contributions to the Workshop

No.	Country	University	Title of the contribution	Name of the author(s)
1	France	École des Ponts ParisTech	Africa: a new horizon for European civil engineering education?	Thibaut Skrzypek
2	Italy	University of Pisa	Free-Field Seismic Response Analysis by Linear-Equivalent and Non-Linear Analyses: the Piazza Dei Miracoli in Pisa Case Study	A. Angina A, A. Steri, S. Stacul and D. Lo Presti
3	Romania	Technical University of Civil Engineering Bucharest (UTCB)	Numerical analysis of structural interaction between a high-rise building and the adjacent metro tunnels. FEM simulation of construction technology and tunnel protection systems.	Tudor Bugnariu
4	Romania	¹ Technical University of Cluj-Napoca ² City University of London	The Application of Structural Models as a Teaching Tool for Students	Doina Verdes ¹ Laurie Boswell ²
5	Spain	UPC BARCELONATECH	Educating XXI st century Civil Engineers in Barcelona	J. Turmo, M.R. Estela-Carbonell, R. Chacon, X. Gironella, O. Lloberas- Valls, X. Oliver, J. Poblet-Puig, M.A. Puigví, S. Valls, P. Díez
6	Spain	Universidad de Castilla- La Mancha	Developing technical English skills for civil engineering students	Romero de Ávila, V.; Díaz, S.; Asensio, L.A; Lozano-Galant, J.A.; Moyano, A.; Porras, R.; Poveda, E.; Ruiz, R.; Sánchez, D.; Sánchez- Cambronero, S.; Tarifa, M.; Yustres, A.; Castillo, M.C.
7	Spain	Universidad de Castilla- La Mancha	A Massive Open Online Course (MOOC) for the multidisciplinary design of bridges	Lozano-Galant, José Antonio; Sánchez-Cambronero García- Moreno, Santos; Castilla Pascual, Francisco Javier; Romero de Ávila Serrano, Vicente;
8	UK	City University of London	The Jack-Up Platform for Offshore Oil and Gas Exploration Overview	Laurie Boswell

10th General Assembly of the EUCEET Association

The 10th General Assembly of the EUCEET Association will take place in Ekaterinburg, Russia on 5th October 2017, after the EUCEET Association workshop, being included in the 100+ Forum Russia.

100+ Forum Russia is an international congress and a professionally oriented exhibition, dedicated to design, construction, financing and operation of high-rise buildings and unique structures for any application.



For more information about this Forum please, visit <http://www.forum-100.ru/en/>

The agenda of the 10th GA includes:

1. Report on the activity of the Association between the GA held in Cluj-Napoca on 29th September 2016 and 05th October 2017, followed by discussions
2. Discharge of the Administrative Council and management
3. Report on the financial situation of the Association and approval of the accounts of 2016
4. Short resume of TA-SE project (Tuning Asia - South East)
5. Approval of the working plan for 2018
6. Approval of the budget for 2018
7. Discussions about organization of the 4th Conference of the Association to be held in September 2018 in Barcelona;
8. Any other matter

FROM MEMBERS

Czech Technical University in Prague, CZ

CZECH TECHNICAL UNIVERSITY IN PRAGUE
Faculty of Civil Engineering
Department of Concrete and Masonry Structures



On 13-16 September 2017 was held in Prague the 9th International conference *Fibre Concrete 2017*.

The conference provided a platform to share knowledge on fibre reinforced concretes, textile concretes and ultra-high performance concretes regarding material properties and behavior, technology procedures, topics of long-term behavior, creep, durability; sustainable aspects of concrete including utilization of waste materials in concrete production and recycling of concrete.



Researchers, scientists, students, designers, practitioners, agencies, contractors and suppliers are all warmly invited to join the conference.

More information on: <http://concrete.fsv.cvut.cz/fc2017/index.php>

Tallinn University of Technology, EE

Representatives of COREPER II visited Tallinn University of Technology



On Thursday, July 20, Tallinn University of Technology (TTÜ) welcomed Coreper II (**Committee of the Permanent Representatives of the Governments of the Member States to the European Union**) at its premises. The delegation gathered at Innovation and Business Centre Mektory, where the deputy permanent representatives of EU countries had the pleasure of listening the speech of TTÜ Rector Jaak Aaviksoo and presentations of TTÜ Mektory Startup success stories.

In his speech, the rector introduced Mektory to the guest as a communal concourse for students, academicians, and entrepreneurs and explained its importance for the university.

On the societal level, the rector stressed the importance of supranational cooperation. "We are currently living in a very exiting period of time and our future depends to a large extent on how successfully we are able to cooperate with each other to reach common goals. In this connection, communicating with a multitude of different people and establishing cross-border connections is of great importance," Aaviksoo said, and added that the university has without a doubt an important part in the society for the successful management of changes.

During the visit, COREPER II also visited the different laboratories of Mektory labs in smaller groups. COREPER is the European Council's main preparatory body.

COREPER II prepares the work of four Council configurations: economic and financial affairs, foreign affairs, general affairs, judicial and home affairs. The main tasks of the team include coordinating the work of different configurations of the Council and ensuring the consistency of the EU's policies.



The pictures of the event can be seen on: https://photos.google.com/share/AF1QipM_VDpblaY-flAjKg-u5_e2i_YQ99RmnoFsb5FwkRPSobYmJMrhJBjtI5wPp7USA?key=MmFINjNsT3I3NVcza3YzZ0s3T1I0THF6TkJfT3B3

Wrocław University of Science and Technology, PL



Wrocław University
of Science and Technology

Summer schools - Wrocław University of Science and Technology open to the world

Almost 200 students from different parts of the world took part in international summer schools organised at Wrocław University of Science and Technology (WUST). During the summer holiday, the young people, apart from gaining knowledge, learned about the university, city and the region.

This year, the courses were held at the faculties of Civil Engineering, Electronics, Electrical Engineering, Environmental Engineering, Computer Science and Management, Mechanical and Power Engineering, and Mechanical Engineering. Additionally, the participants learned the Polish language and culture in classes organised by the Foreign Languages Department.

New editions of three different summer programmes took place in June and July.

TECHSummer is a programme catering primarily for students from India. The specially designed six-weeks' courses, organised at the Faculties of Civil Engineering and Hydroengineering, Electrical

Engineering, Environmental Engineering, Computer Science and Management, and Mechanical Engineering, are recognised at the programme participants' home universities.

Over 100 students from 5 partner universities in India, as well as - for the first time - a 22-strong group of French students of Institut National des Sciences Appliquées, took part in the already fourth edition. Another initiative, named 3E+ Summer School, is a summer programme dedicated to students from all over the world. This year's edition lasted 4 weeks, with 33 young people from Europe and more remote parts of the world, including Australia, China, India, Taiwan, Thailand, and Vietnam, staying at Wrocław University of Science and Technology (WUST). The participants worked on their projects at five faculties- Civil Engineering and Hydroengineeringg, Electronics, Electrical Engineering, Environmental Engineering, and Mechanical and Power Engineering.

Late July saw the completion of GUT Summer School i.e., holiday courses for students of Guilin University of Technology, our partner university in China, for whom it was already the second visit to Wrocław University of Science and Technology. This year's edition of the school aimed at supporting 22 second cycle students in their work on their master's theses. The course comprised classes in the methodology of scientific research and academic writing in the English language. Moreover, the students had an opportunity to find out about Wrocław and Poland thanks to the extensive culture programme and Polish classes.

Also for the second time, the Summer School of Architecture was organised at WUST with project coordinators Marcel Bilow PhD, Eng. Arch. from the Technical University of Delft and Jerzy Łątka, a doctoral student at the Faculty of Architecture of WUST. 25 students of the WUST took part in this year's edition with the aim of developing paper furniture prototypes, among other things. The designs created by the participants included a modular reading room and a loge featuring a multi-purpose table. More information on the programmes can be found on the <http://www.summerschools.pwr.edu.pl/>



Participants at the summer schools

ECCE – European Council of Civil Engineers



66th ECCE General Meeting

4th – 6th October 2017, Vienna, Austria



The 66th ECCE General Meeting will take place on Wednesday 4th and on Friday 6th October 2017, in Vienna, Austria hosted by the Federal Chamber of Architects and Chartered Engineering Consultants/Section for Chartered Engineering Consultants/Federal Expert Group for Civil Engineering. This year's autumn ECCE General Meeting will be organized adjacent to the [3rd European Engineers Day](#) which is going to be held on Thursday 5th October.

The venue of the meeting on Wednesday 4 October is at the ["Haus der Ingenieure"](#) and on Friday 6 October at the Federal Chamber of Architects and Chartered Engineering Consultants offices. Both venues are located in the center of Vienna.

More information on: http://www.eccengineers.eu/news/2017/66_ecc_meeting.php?id=41

3rd European Engineers' Day

Concerns about Engineering Excellence

The "3rd European Engineers' Day" is an event co-organized by a number of European Engineering Organizations:

The European Council of Engineering Chambers (ECEC), the European Federation of National Engineering Associations (FEANI) and the European Council of Civil Engineers (ECCE) together with the

European Network for Accreditation of Engineering Education (ENAE). These organizations represent a wide variety of European Engineering branches and a high number of European Engineers.

The intention of the 3rd European Engineers Day is to draw attention to the importance of securing the availability of excellent engineering solutions for the future of Europe. Although the need for engineering excellence is increasing, the current approaches to safeguard and enforce its broad availability seem to be insufficient or even counterproductive.

Engineers' impact is visible in every aspect of human life: Through increasingly more sophisticated inventions, techniques and equipment Engineers enhance and irrevocably change society. Overcoming the challenges of today's societal developments will thus, to a considerable degree, depend on the availability of excellent engineering solutions.

The "3rd European Engineers' Day" will provide an opportunity to analyse existing developments and approaches that can either enhance or hinder engineering excellence. It will offer expert opinions but also a forum for critical dialogue and participation.

The event will take place **on Thursday, 5 October 2017 at Haus der Ingenieure, 1010 Vienna, Eschenbachgasse 9**, from 10.00 a.m. until 4.00 p.m. (registration starting at 9.00 a.m. including a one hour lunch and networking break.)

For further details please see: <http://www.engineers2017.eu/engineersday2017>

FROM PARTNERS

Workshop on “Universities in regional innovation ecosystems: coherent policies for Europe beyond 2020”

16-17 October 2017, Tartu, Estonia



The workshop is organised by EUA in collaboration with Universities Estonia and Universities Finland in the framework of the EUA Expert Group on Research and Innovation Strategies for Smart Specialisation (RIS3).

The goal of the workshop on “universities in regional innovation ecosystems: coherent policies for Europe beyond 2020” is to provide an open platform for discussion among representatives of the university sector, policy-makers at all governance levels, and other relevant stakeholders on policy aims and objectives for the post-2020 period. A primary objective of the workshop will be to formulate a set of recommendations to feed into the EUA positions proposing actions to improve the effectiveness of European research and innovation at regional level.

The workshop is the third in a series of workshops jointly organised by National Rectors’ Conferences and the European University Association (EUA) on RIS3. These events bring together university leaders, policy-makers, experts, and analyses case studies of good practice examples of universities’ role in regional policy and in smart specialisation strategies, from different European regions. The workshop will also serve as a forum to identify challenges and opportunities related to the strategic role of universities in the implementation of smart specialisation across Europe as well as addressing the shape of RIS3 beyond 2020. This workshop is addressed to municipal, regional and national policy-makers, university leaders (e.g. rectors, vice-rectors, heads of administration), and other stakeholders interested in regional innovation.

More information on: <http://eua2017.ut.ee/avaleht>

EUA-CDE Focus group: Implementing an Ethos of Research Integrity in Doctoral Education

24-25 October 2017, Vrije Universiteit Brussel, Brussels, Belgium

Implementing an ethos of research integrity has become a crucial challenge for academic leaders and professionals working on doctoral education. Universities are facing uncharted ethical questions stemming from innovative paths for research, while increased social awareness puts a spotlight on the integrity of their staff. Doctoral education is emerging as a powerful tool to meet these challenges.

On **24 and 25 October 2017** the EUA Council for Doctoral Education (EUA-CDE) organises a **Focus Group** dedicated to this topic. The event will bring together universities to discuss implementing an ethos of research integrity as an integral part of doctoral education.

The Focus Group welcomes universities at different stages of development in this field, from those just starting out to institutions with an established track record. Participating doctoral education professionals and ethics and research integrity officers will have the opportunity to exchange views on the current situation in Europe and together reflect on ways forward.

The Focus Group will be followed by a [Webinar](#) to disseminate a summary of the key findings of the Focus Group discussion to a broader audience.

More information on: <http://www.eua.be/activities-services/events/event/2017/10/24/default-calendar/eua-focus-group>

The Future of Higher Education – Bologna Process Researchers' Conference (FOHE-BPRC3)

27-29 November 2017, Bucharest

The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), together with the National University of Political Science and Public Administration (SNSPA) and the Romanian Ministry of National Education (MEN), will jointly organise the third edition of the "Future of Higher Education – Bologna Process Researchers' Conference" (FOHE-BPRC3), in Bucharest, Romania on 27 – 29 November 2017.



The conference is part of the European Higher Education Area (EHEA) official calendar of events and conferences, promoting and sustaining the development of EHEA. It aims at providing a unique forum for dialogue between researchers, experts and policy makers in the field of higher education. The first edition of this event (October 2011) resulted in a two-volume collection of research articles that framed the research development on topics of high interest for advancing international cooperation in the field of higher education and further evidence-basing the EHEA. The online version of this two-volume book was among the most downloaded 25% Springer publications. The articles which resulted from the second edition of the conference (November 2014) were made available in open-access format on Springer website. As a result, the publication was in the top 3 most downloaded publications.

More information: <http://fohe-bprc.forhe.ro/>

ACA European Policy Seminar Quality in international university partnerships - newlyweds, happily married, in marital counselling or on the verge of divorce**Brussels, 13 October 2017****Theme**

In a “the more, the merrier” paradigm, the sheer number of international partnerships of a university has been regarded for (too) long as a key indicator of internationality. Nowadays, it is clear that the European higher education sector as a whole has moved forward, shifting the focus to the quality of collaborations rather than their number. However, it is not as clear-cut how to distinguish, in practice and at the institutional level, between the truly strategic and efficient partnerships and ‘the rest’. In the pursuit of “comprehensive”, “strategic”, “encompassing”, “ethical” internationalisation, European higher education institutions are faced with some opportunities, but also with some tough decisions, including those that pertain to international collaborations.

This one-day Brussels seminar of ACA will provide a platform to reflect on and critically discuss **the main trends in international partnership development within European higher education**, with a particular focus on the **role of quality-related considerations in these developments**. Prompted by knowledgeable, captivating and engaging speakers, the programme will address the following **key questions**:

- What kind of partnerships are European universities currently pursuing and (how) have the patterns of collaboration evolved over time?
- *What are the drivers of change in international partnership approaches?*
- *How is quality pursued in international collaboration and is quality enhancement a main objective in collaborations?*
- *What does quality look like in practice, and whose "job" is it?*
- *How to strategise partnerships?*
- *Which evaluation models to utilise and how reliable are these models for strategic decisions?*
- *What can we learn from practice? What are the key ingredients for successful cooperation and what should be learnt from "failures"?*

as well as any other important queries that you may have.

The programme features a mix of **plenary** and **parallel sessions**. The latter offer an excellent opportunity to showcase inspiring institutional and/or programme examples, via a [Call for proposals](#).

More information on: <http://www.aca-secretariat.be/index.php?id=996>

FROM THE EUROPEAN UNION

News from Education, Audiovisual and Culture Executive Agency (EACEA)



New Eurydice Publication: *“Modernisation of higher education in Europe: Academic staff – 2017”*

The report *“Modernisation of Higher Education in Europe: Academic Staff – 2017”* explores the current realities for academic staff within the changing higher education landscape in Europe. It focuses on the qualification requirements for academic staff, the recruitment process, employment and working conditions in academia, the impact of external quality assurance, and top level strategies for internationalisation. It also includes national diagrams showing key characteristics of academic staff categories. The report is based mainly on qualitative data gathered by the Eurydice Network, covering higher education systems in 35 countries.



The data collection focused on academic higher education staff who are primarily responsible for teaching and/or research. In addition, quantitative data from Eurostat and the European Education Tertiary Register (ETER) are also used, as well as information gathered from surveys developed for this report to academic staff Trade Unions and Quality Assurance agencies.

More information on: <https://publications.europa.eu/en/publication-detail/-/publication/40f84414-683f-11e7-b2f2-01aa75ed71a1/language-en/format-PDF/source-search>

Join the Erasmus+ Generation online meeting point

Join the Erasmus+ Generation online meeting point and have your say on the future of Erasmus+!

30 years ago, a joint effort across borders gave birth to the Erasmus and subsequently Erasmus+ Programme. Now it will be up to collective input to shape its future! We want to give the entire Erasmus+ generation of 9 million participants the opportunity to shape the "9 times more ambitious" future programme. They will help shape the future of the programme, in President Juncker's words, by **expressing their thoughts and ideas through the [Erasmus+ Generation Online Meeting Point](#)** which will result in a co-created "**Declaration**".

By the end of November this year, we would like the Erasmus+ Generation to come up with a number of concrete proposals on the future of the programme. The proposals will be presented to European decision-makers at the **final EU event in Brussels planned for 30th November**, which marks the end of the 30th anniversary campaign. The proposals put forward will be known as the Erasmus+ Generation

Declaration. It will serve as the basis for building a stronger, more inclusive and better-tailored Erasmus+ Programme for future generations of Europeans.

In order to create the Declaration, the discussion forum has been structured around the following six main topics, building on the [debates of 13th June](#) at the European Parliament:

- **Societal challenges** (how can the programme better help tackle societal challenges?)
- **Skills gap** (how can the programme help foster the acquisition of relevant skills and competences for a fast-evolving society?)
- **Civic engagement** (how can the programme better support and promote civic engagement and common EU values?)
- **Inclusion** (how can the programme be more inclusive to all social groups?)
- **Accessibility** (how can access and participation in the programme be widened and simplified?)
- **The global dimension of Erasmus+** (how can cooperation with the wider world be extended and improved?)

In August, DG EAC asked the NAs to nominate discussion leaders from among E+ participants. Colleagues in DG EAC also proposed some discussion leaders. To ensure a good distribution of fields in each topic, DG EAC will soon assign one topic to each discussion leader based on the three preferred topics indicated in your nomination. This will allow us to form teams of 5-6 leaders per topic.

Who are the nominees?

The nominees are former Erasmus+ participants passionate about the programme and able to actively contribute to the discussions whilst enjoying the unique opportunity to formulate and present the Erasmus+ Generation Declaration to EU leaders in Brussels. The campaign task force will assist the discussion leaders in their roles and provide guidance.

During the months of September and October, the discussion leaders will be in charge of stimulating discussions, challenging the ideas, collecting input, and drafting concrete proposals. By the end of November, the discussion leaders will be invited to Brussels **to present the proposals on behalf of the Erasmus+ Generation to the EU leaders during a press conference at the final event of the Erasmus+ 30th anniversary campaign.**

Information from: https://eacea.ec.europa.eu/erasmus-plus/news/join-erasmus-plus-generation-online-meeting-point-and-have-your-say-future-erasmus-plus_en

Erasmus+ for Africa, and the EU-Africa Strategy

Tuesday, 25 July, 2017 - 17:40

**Erasmus+ opportunities extend worldwide, and the countries in Africa, the Caribbean and Pacific are no exception.**

Agreements between European and sub-Saharan Africa universities have allowed higher education institutions in these continents to send or receive around 100 students and staff for short-term study or teaching so far. With new agreements to be adopted this summer, each year has seen some 70 to 80 students from the same region receive scholarships for Erasmus Mundus Joint Master degrees, with Ethiopia, Ghana and Nigeria supplying the most African students.

But Africa is more than student and staff mobility, as it has allowed for Erasmus+ capacity-building projects for youth, as exemplified by the *JAMBO* and *CLICK* initiatives:

JAMBO was a 12-month project that involved the increased participation of women and girls in voluntary projects and services based out of Uganda, Tanzania, and Kenya with the aim of improving the women's skills, knowledge and employability. The voluntary projects and services themselves (such as working in women's groups, children's centres, and anti-AIDS organisations) also helped raise awareness about gender and women issues in the region.

CLICK was a 24-month project that recognised the growing problem of a digital divide. In an attempt to breach this divide, *CLICK* has provided learning opportunities and an increased communication network between European countries and Latin American, Asian, and ACP countries. The project successfully helped young people from developing countries learn more about technology, improved their digital literacy, and increased their overall employability in a technology-dependent world.

The future is promising: in May, the European Commission released its latest [EU-Africa Strategy](#) ahead of the Africa-EU Summit in November. In terms of Erasmus+, this means more good news for the burgeoning educational partnership between these 2 regions. The communication on the new EU-Africa Strategy is particularly focused on the empowerment of youth, and vocational training mobilities will be coming in less than a year to improve skills and employability for youth in Africa and the EU.

This year's [EU Development Days](#) on 7 and 8 June in Brussels were an opportunity to share ideas and the best practices in the areas of development and youth. At a high-level panel on the first day of the event, Commissioner for Education and Culture Tibor Navracsics spoke about the EU's initiatives for youth empowerment in developing countries. With the new EU-Africa Strategy now up for adoption at the November summit, the future for youth and education in these regions looks bright.

Information from https://ec.europa.eu/programmes/erasmus-plus/updates/20172725-erasmus-plus-africa-eu-strategy_en

NEWS FROM THE WORLD

2017 ABC Conference — 2017 National Accelerated Bridge Construction Conference

06 - 08 December 2017

Miami Florida, United States

2017

National Accelerated Bridge Construction Conference

December 7 and 8, 2017

Workshops - December 6, 2017



The last two conferences, 2014 and 2015 National ABC Conferences, sponsored by the ABC-UTC and co-sponsored by more than 30 State Departments of Transportation and Federal Highway Administration was a complete success. Each conference attended by more than 700 bridge professionals from almost every State in U.S. and some other countries. During 2014 and 2015 conferences, day before start of the conference total of 18 four- or eight-hour long workshops were held, covering, in detail, subjects related to ABC. Total of 275 technical presentations were held during 2014 and 2015 National ABC Conferences with speakers covering all subjects related to ABC. 2014 and 2015 conferences also provided more than 95 companies to showcase their products and services related to bridge engineering.

More information <http://www.abc-utc.fiu.edu>

APLOBMA — International Symposium: Architectural Patrimony and Local building materials

13 - 15 October 2017

Errachidia, Morocco



The International Symposium: Architectural Patrimony and Local building Materials (APLOBMA2017) is a scientific event that brings together national and international researchers interested in the architectural patrimony, its materials, construction techniques, degradation, conservation and dating. The aim is to develop networks of specialists in local building materials and traditional architecture, and to propose solutions to problems related to the restoration, conservation and valorization of earthen buildings.

More information: <https://aplobma2017.sciencesconf.org/>

CITECH — CITECH Middle East

16 - 17 October 2017

Dubai, United Arab Emirates

The launch edition of CITECH Middle East, will take place from 16th – 17th October 2017 in Dubai at the Address, Dubai Marina, Dubai, UAE.



The conference will bring together the leading and most important government and industry decision makers from across the Middle East and the Arab world as well as IT and technology thought leaders from the construction sector to discuss strategic plans and challenges related to technological innovation in the construction industry.

The UAE, being a world leader in modern construction marvels and an inspiration to the rest of the world, ensure that development projects are completed to the highest global standards, while adopting and implementing latest technologies in construction.

The two-day event, taking place from October 16-17, 2017, at The Address Marina, and hosted by BPOS Global, will present a unique opportunity for construction professionals to meet face to face and discuss innovation and technology, and also hear from some of the influential leaders in the industry.

The debut edition of CITECH ME 2017 will be an unmissable platform for regional construction professionals eyeing the lucrative market boasting of AED2mn projects in the pipeline.

Event website: <http://www.citechme.com>

Urban Climatology Initiatives (UCI)

14-16 January 2019

Sharm Elshekh, Egypt



Urban climatology refers to a specific branch of climatology that is concerned with interactions between **urban areas** and the **atmosphere**, that affects one another, and the varying spatial and temporal scales at which these processes and responses occur.

Cities, for example, are places of concentrated energy consumption and the main producers of waste, pollution and climate change.

Urbanization and **human activities** in cities have led to **micro-climatic changes** that have important implications for inhabitants health, and comfort as well as, for the energy use and environmental quality.

These topics are discussed from the perspective of an environmentally **sustainable** approach to urban and architectural design focusing on the design of urban open spaces.

The environmental design objectives for open spaces are to influence their microclimates so as to improve amenity and use of such spaces, as well as contributing to a cleaner and healthier urban environment to establish the contribution from such climatic improvements to the wider **urban microclimate** of cities.

[IEREK](#) is hosting this conference as an initiative, to improve our surrounding by coming out of UCI with a set of recommendations, that might be useful to our environment and its climate.

Conference Topics

1. Climate changes & City regulations.
 - Cities in climate models (global and regional scales).
 - Climate services for cities.
 - Amendment and development of planning regulations.
 - Resilience Cities.
 - Remotes Sensing of Cities -Energy supply and demand in cities.
 - The role of urban climates -Potential of low carbon.
 - Based economies, smart agricultural and food systems.
 - Importance of Education and Innovative Academic Program taking the Problem.

2. Environment & Natural features.
 - Governance challenges for tackling urban heat.
 - Boundary layer and canopy layer Urban Heat Islands.
 - Surface and subsurface Urban Heat Islands.
 - Surface energy and water balances.
 - Greenhouse gases in the urban environment.
 - Flows and dispersion in the urban canopy layer.

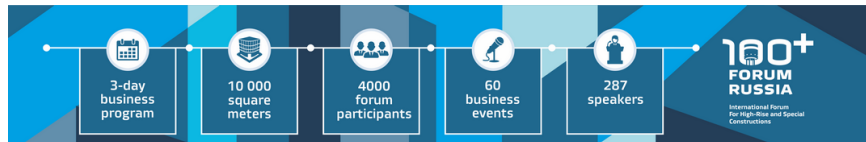
3. Urban Design Impact.
 - Sustainable design practices.
 - Morphological urban design.
 - Precipitation/fog/clouds -Air quality/aerosols/radiative transfers in the urban boundary layer.
 - Building climates.
 - Urban Risks.
 - Simulation Modeling.

4. Principals & Future strategies.
 - Urban weather forecasting -Indicators and climate maps.
 - Storm surges and flooding maps.
 - Warning plans -Public policies.
 - Incentives for adoption/implementation of mitigation and adaptation plans.
 - Forecasting and impacts of extreme weather events.

More information: <https://www.ierek.com/events/international-conference-urban-climatology-initiatives-uci/>

CALENDAR

Date	Event	Place
04-06.10.2017	100+ Forum Russia	Ekaterinburg, RUSSIA



<http://www.forum-100.ru/en/about/>

05.10.2017	<ul style="list-style-type: none"> ▪ Workshop EUCEET Association <i>“Trends and challenges in civil engineering education in Europe”</i> ▪ 10th General Assembly of the EUCEET Association 	Ekaterinburg, RUSSIA
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09-10.11.2017	Advanced steel structures Conference 2017	Singapore, SONGAPORE
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<https://steelstructures.conferenceseries.com/>

13–16.11.2017	2017 World Engineering Education Forum (WEEF2017)	Kuala Lumpur, MALAYSIA
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<http://www.weef2017.org/>

Date	Event	Place
16-18.11.2017	10th annual International Conference of Education, Research and Innovation	Seville, SPAIN



<https://iated.org/iceri/>

06-08.12.2017	2017 ABC Conference — 2017 National Accelerated Bridge Construction Conference	Miami Florida, UNITED STATES
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<https://abc-utc.fiu.edu/>

21.11.2017	ICE Transport Asset Management 2017	London, UNITED KINGDOM
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<http://www.ice-tam.com/2411>

Date	Event	Place
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7-9.06. 2018

Danube-European Conference on Geotechnical Engineering (DECGE) 2018

Skopje,
R. MACEDONIA



<http://www.decge2018.mk/>

24-26.07.2019

International Conference on Structures and Architecture

Lisbon,
PORTUGAL



www.icsa2019.com

01-06.09.2019

17th European Conference on Soil Mechanics and Geotechnical Engineering

Reykjavik,
ICELAND



<http://www.ecsmge-2019.com/>