

### Research, Development and Innovation in the Czech Republic

Dear Readers,

This is 4th issue of the ad-hoc CZELO Bulletin in 2014 which brings you information on recent developments, publications, studies, successes and position/jobs offers in the field of research, development and innovation in the Czech Republic. We wish you a pleasant reading.

**Anna Vosečková**

*Head of Czech Liaison Office for Research, Development and Innovation (CZELO) in Brussels*

## CZELO EVENTS

### CZECH CENTRE ADMAS INTRODUCED IN BRUSSELS

CZELO office in cooperation with AdMaS organized on 17 September 2014 in Brussels an event introducing the AdMaS Centre (Advanced Materials, Structures and Technologies). AdMaS is a modern science centre and complex civil engineering research institution affiliated to the Faculty of Civil Engineering, Brno University of Technology. Mobility activities of the centre and career opportunities for foreign researchers and students were presented, as well as research team profiles

and the interconnection with the relevant thematic priorities in the work programmes of the EU Framework Programme Horizon 2020. More information (including the presentations and photos) is [here](#).



### WORKSHOP ON RENEWABLE ENERGY SOURCES AT OPEN DAYS



CZELO office together with the Energy Research Centre (VŠB-TUO) organized on 7 October 2014 in the framework of the OPEN DAYS a workshop on „Using Biomass to Mitigate Climate Change and Increase Economic Benefits – Development of Regional Biochar Clusters in Central Europe“. The objective of the workshop was to present biochar as a sustainable method of waste disposal and green energy and fertilizer production.

The event focused on outcomes of [E2BEBIS project](#) (Environmental and Economic Benefits from Biochar Clusters in Central Area) funded by the Central Europe programme and implemented by partners from five European countries – the Czech Republic, Slovakia, Slovenia, Poland and Italy. For more details, click [here](#).

## CZELO WORKSHOP ON ITI INSTRUMENT

A workshop on “SMART CITIES AND URBAN DIMENSION: IMPACT ON CITY AGGLOMERATIONS – USE OF ITI” was organized on 8 October 2014 in Brussels by CZELO as a side event to the OPEN DAYS 2014. The DG REGIO representative introduced the ITI instrument (Integrated Territorial Investment) that allows combined use of different structural funds for a limited number of areas defined by Integrated Territorial Strategies. Two examples of use of ITI for solving problems of city agglomerations were presented afterwards: the City of Olomouc, Olomouc Region, Czech Republic, and the City of Bratislava, Bratislava Region, Slovakia. Representatives of the Cornwall and the Isles of Scilly (UK) then presented the use of ITI in rural areas. More details are [here](#).



## NEW PRESIDENT OF CZECH SCIENCE FOUNDATION APPOINTED

On 1 October 2014, the Government of the Czech Republic appointed prof. RNDr. Ivan Netuka, DrSc., as a new President of the Czech Science Foundation (GACR). He is one of the five members of GACR Presidium and responsible for Physical Sciences (the other four are responsible for Technical Sciences, Medical and Biological Sciences, Social Sciences and Humanities, and Agricultural and Biological-Environmental Sciences). The President represents GACR and acts on its behalf in all relevant matters. The CV of Mr. Netuka is [here](#), more information on GACR [here](#).



*prof. RNDr. Ivan Netuka, DrSc.*

## GRAPHENE FLAGSHIP DOUBLED ITS MEMBERSHIP

[Graphene Flagship](#), one of the largest European research initiatives, invited 66 new partners following the results of a €9 million competitive call. While most partners are universities and research institutes, the share of companies, mainly SMEs, involved is increasing. The project forming part of the future and emerging technologies flagship initiative (FET) represents a European investment of €1 billion over the next 10 years. One of the new partners is J. Heyrovský Institute of Physical Chemistry from the Czech Republic. All new partners invited to join the Graphene Flagship are listed [here](#).



GRAPHENE FLAGSHIP



## CERIC-ERIC: MATERIALS SCIENCE FACILITIES OF CENTRAL EUROPE JOIN RESOURCES TO OFFER AN INTEGRATED SERVICE TO RESEARCHERS



On 24 June 2014, the European Commission gave green light to the setting up of a unique distributed research infrastructure that will offer researchers an integrated service and access to materials science facilities in Central Europe. CERIC, the Central European Research Infrastructure Consortium, will put together national multidisciplinary analytical, synthesis and sample preparation capabilities of six countries, Czech Republic, Italy, Austria, Romania, Serbia and Slovenia. The new European legal entity [CERIC-ERIC](#) will exploit the full scientific potential of the Central European area in the synchrotron light and other microscopic probes for analytical and modification techniques for a broad range of applications in the fields of life sciences, nanoscience and nanotechnology, cultural heritage, environment and materials sciences. CERIC-ERIC has its statutory seat in Trieste, Italy. The Czech participation is coordinated by CZECRIN (Czech Clinical Research Infrastructure) that is a joint collaboration between Masaryk University (MU) Brno and St. Anne's University Hospital in Brno – International Clinical Research Center (FNUSA-ICRC).

## CZECH COMPANY WON THE PRIZE „ENTERPRISE EUROPE NETWORK AWARDS 2014“

The European Commission has honoured companies from the UK, Czech Republic, Hungary, Spain, Germany and Greece during the Enterprise Europe Network Awards, held for the first time as a stand-alone event in Brussels on 23 September 2014. The Jury members included: Joanna Drake, Director of DG ENTR and chairperson of the jury, Marco Malacarne, Head of Department at EASME, Sarah Gordon, Europe Business Editor of the Financial Times, Nicolas Steisel, co-founder and CEO of Exki and Fabian Zuleeg, Chief Executive of EPC. The winner of the category I „New markets“ was the network “Producing glass with class” comprising of SMEs Rokos Design (UK) and Sklarna Novosad & Syn Harrachov (CZ) and other members - University College London (UK) and Technology Centre of the Academy of Sciences of the Czech Republic (CZ). [Read the story](#) and [watch the video](#).





## INTRODUCING NEW CENTRES OF EXCELLENCE IN THE CZECH REPUBLIC: THE ESTABLISHMENT OF NEW INFRASTRUCTURES FOR EXCELLENCE IN RESEARCH AT THE CZECH TECHNICAL UNIVERSITY IN PRAGUE

### CZECH INSTITUTE OF INFORMATICS, ROBOTICS, AND CYBERNETICS (CIIRC)



CIIRC was established on 1 July 2013. In order to support construction of a new building, the centre submitted a project proposal to the OP RDI (ERDF) in January 2014. The proposal was successful, the contract negotiations are ongoing and construction should start in November 2014. The CIIRC mission is to provide internationally competitive excellent research as well as top quality teaching and research activities. The scope of research interests is broad and includes the automatic control and optimization, robotics, artificial intelligence, computer graphics, computer vision and machine learning, design of software systems and computing resources, diagnostic systems and their applications in medicine, decision making systems, industrial diagnostics, telematics, etc. A new accelerator

of start-up companies called eClub that ranks among the best ones in the Czech Republic and will be connected with the incubators in the USA and elsewhere will be placed at the CIIRC premises. More

### UNIVERSITY CENTRE FOR ENERGY EFFICIENT BUILDINGS (UCEEB)

UCEEB presents innovative thinking and interdisciplinary approach in developing simple and efficient sustainable buildings and environment solutions. The centre was opened in May 2014 and its ambition is to become the most advanced entity of its kind in the Czech Republic with an enthusiastic team, international connections, cutting-edge technical equipment and an exceptionally interesting subject with a promising future. The UCEEB is aligned with one of the European Union's main priorities aimed at optimization of energy efficiency of buildings. The new centre should also ensure better opportunities to participate in European scientific projects, such as the cPPP on Energy Efficient Buildings, which is based on the EU's targets for carbon dioxide emissions. The construction of the new building was supported by a grant from OP RDI (ERDF) CZK 571 217 685 (approx. 20 mil €) and by CZK 100 803 121 (approx. 3,6 mil €) from the Czech state budget. More information is available [here](#).



## CZELO

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