



Mineral and Energy
Economy Research
Institute
Polish Academy of Sciences

International Conference **The Circular Economy** – Rational Use of Raw Materials

Cracow, 18-19 September 2018, The Home Army Museum

We are honoured to invite you to participate in the International Conference on the **Circular Economy – Rational Use of Raw Materials** to be held in Cracow on 18-19 September 2018 in the Home Army Museum at 12 Wita Stwosza St., Cracow.

The key element of a circular economy is the rational management of raw materials including that of metals, energy, chemicals and industrial raw materials as well as water and biomass. The improvement of such management is still a challenge for many countries, including Poland, but it contributes not only to reducing the impact on the environment but also to ensuring the security of raw materials and energy supply. The European Commission, recognises the importance of the circular economy, and is developing and implementing an action plan that outlines new requirements for products, the principles of financial support, an educational programme, sustainable public procurement, the principles for assessing environmental performance using the life-cycle assessment method, and eco-design in the whole of the European Union. The aim of the circular economy is to boost economic growth without increasing the consumption of resources. It creates many opportunities for the rational use of raw materials i.e. reducing and optimising the use of materials, industrial symbiosis, recycling, reuse, redistribution, re-selling, refurbishment, remanufacturing, maintenance, repair, service, etc.

The purpose of this conference is to exchange knowledge and experience on effective methods of management in accordance with the rules of the circular economy and their future directions. On the first day, the subject of the conference will be the rational use of raw materials from primary and secondary sources i.e. metals, energy, chemicals, industrial raw materials, water and biomass including social and economic changes and technological and innovative solutions. On the second day the discussion will focus on implementation of the circular economy: new business models, education, CE indicators, eco-innovation, economic symbiosis and the use of new IT tools. During the conference, the following thematic sessions are planned:

Day 1 – The rational use of raw materials

- Plenary session;
- Models and indicators, critical raw materials;
- The circular use of water;
- The role of energy and raw materials in the development of the circular economy;
- Material from waste - examples;



Day 2 – The circular economy – methods and good practice

- Industrial Symbiosis – including SYMBI project;
- Innovation and the circular economy;
- Instruments supporting a circular and low-carbon economy;
- Use of IT tools in a circular and low-carbon economy;
- Environmental education;



Sessions include the following papers:

- Robert Rivett, (Emerson Electric), Jonathan Cullen (Cambridge University), Hannalena Ivarsson (Kreab, Brussels) *Presentation of the Polish Resource Efficiency Programme – a long-term vision to develop and implement a programme for industry;*
- Antonino Marvuglia, Benedetto Rugani, Enrico Benetto (Luxembourg Institute of Science and Technology -LIST), Sergio Ulgiati, Remo Santagata (University of Naples Parthenope, Italy) *Energy indicators to measure circularity: promises and problems;*
- Anna Larsson, Reloop Platform, Norway, *Circular Economy model – case study: a deposit system for beverage packaging;*

Participation in the conference is free of charge

Scientific Committee

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Organizing Committee & Contact

Agnieszka Nowaczek, MEERI PAS – Chairwoman, tel. +48 12 617 16 11, e-mail: szkolenia@meeri.pl;
Marcin Cholewa, MEERI PAS, tel. +48 12 617 16 52, e-mail: mcholewa@meeri.pl;
Mineral and Energy Economy Research Institute of the Polish Academy of Sciences,
7A Wybickiego St., 31-261 Cracow, Poland; fax. +48 12 632 22 45, www.konferencja-pan.pl/en/

Registration

The registration form is available at www.konferencja-pan.pl/registration/

The first conference was organised in 2017 and brought together over 200 participants from many different countries (more info: www.konferencja-pan.pl/en2017/).

Submission of papers

Please send us your proposals for titles and abstracts (about 200 words), on the basis of which they will be allocated to a lecture or a poster session. Mailing address: szkolenia@meeri.pl.

Important dates:

- Submission of abstracts by **10.07.2018**
- Acceptance of papers **25.07.2018**
- Submission of full text **10.09.2018**

Papers will be printed in post-conference publications – 2 books: 'The circular economy - rational use of raw materials' and 'The circular economy – methods and good practice'. Selected papers may be recommended for publication in Acta Innovations, Energy Policy Journal, Mineral Economics (Springer) and other journals.

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