



NATIONAL INSTITUTE OF CHEMISTRY 70

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Slovenian Business and Research Association and the National Institute of Chemistry
Slovenia have the pleasure to invite you to the conference

ADVANCED MATERIALS IN CIRCULAR ECONOMY

29th of March 2017 (10.00 – 13.00)

Permanent Representation of Slovenia to EU, Rue du Commerce 44, Brussels

Concept and objective:

Advanced materials - constituting from materials for energy storage and conversion, biomaterials and biomimetic materials, are showing extraordinary properties in case they are structured and developed at nanolevel. They are widening their paths into real life applications. On the other hand, circular economy is also becoming a reality in the treatment of products after their end use. That is why it is of extreme importance that the close look and investigation is devoted to re-entering the life cycle, reuse, recycle of advanced materials. Only in this case the precious resources will not be wasted.

There is a strong demand for new advanced materials with highly improved or even completely redesigned properties and functionalities such as high energy storage capacity, efficient energy conversion, self healing, self assembly materials that form complex 3D nanostructures. In order to achieve resource efficiency and resource sufficiency we have to tackle resources that are difficult to convert (e.g. carbon dioxide), sources that are impure (e.g. biomass), challenging to harvest (e.g. solar and low grade thermal energy).

We strongly believe that Europe needs its position in the world by linking design and production of advanced materials with their path in the circular economy. The objective of the event is therefore to highlight the importance of the advanced materials research and innovation in Europe, especially on the nano level and transfer the knowledge to industry and product development.

Programme:

- 10.00 Welcome speech – *dr. Draško Veselinovič, SBRA and dr. Gregor Anderluh, National Institute of Chemistry Slovenia*
- 10.15 Presentation of Nanofutures - *Andrea E. Reinhardt, Nanofutures ETP*
- 10.30 Research of advanced nano materials for circular economy:
- Opportunities for development of advanced materials in circular economy - *Prof. dr. Gregor Anderluh, National Institute of Chemistry Slovenia*
- Advanced Materials as the Principal Key Enabling Technology for Energy- and Resource-efficient Processes within the Emerging Circular Economy - *Dr. Nejc Hodnik, National Institute of Chemistry Slovenia*
- Self-assembling protein nanostructures as the new platform for designed biomimetic smart materials - *Dr. Helena Gradišar, National Institute of Chemistry Slovenia*
- 11.30 Advanced nano materials for industrial leadership, *Ales Mihelic, Gorenje Group*
- 11.50 Advanced materials & technologies for a circular economy, *Jan Meneve, VITO institute*
- 12.15 European policy and initiatives on advanced materials, *Hans Hartman Pedersen, European Commission, DG RTD*
- 12.40 Discussion

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