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VABILO NA INŠTITUTSKO PREDAVANJE / INVITATION TO THE INSTITUTE LECTURE

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sreda / Wednesday, 21. 10. 2015, ob / at 12:00

Velika predavalnica Kemijskega inštituta / Lecture Hall at the
National Institute of Chemistry; Hajdrihova 19, Ljubljana

Are we able to design heterogeneous catalysts?

Heterogeneous catalysis is quite possibly the most relevant discipline in the chemical industry, spearheading improvements in process sustainability by improving the exploitation of raw materials, enabling the transition from fossil to renewable feedstocks, reducing energy consumption, and minimizing the environmental footprint. To confront these challenges head on, this vibrant discipline is becoming increasingly design-driven, a shift which is facilitated by the availability of increasingly powerful tools that enable the continued development of fundamental knowledge over different time and length scales. The design of a heterogeneous catalyst, a dream not long ago, is becoming a reality. In this talk, I have hand-picked recent examples from oxidation, hydrogenation, and acid catalysis to illustrate how this intellectual growth in the understanding of surface-catalyzed processes can kindle/incubate revolutionary technological advancements.

Vljudno vabljeni! / Kindly invited!

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