**20 de abril de 2017 a las 12:00**

**Salón de grados cicCartuja2**

**Kostya (Ken) Ostrikov**

Queensland University of Technology (QUT) and CSIRO, QUT-CSIRO Joint Sustainable Processes and Devices Laboratory,

Australia

***Plasma-synergistic effects: catalysing cross-disciplinary collaborations***

This presentation will introduce the key features of low-temperature plasmas that make them a versatile tool in materials science and engineering and other areas such as chemical engineering and health sciences. Particular attention will be paid on synergistic effects of plasmas with common materials and processing methods and what difference it makes in diverse applications, with particular focus where nanoscale features of materials play a role. These localized interactions have opened opportunities for fundamental research and applications in the plasma nanoscience field. The focused “what can plasma do for you” examples will be used to stimulate collaborative efforts even between researchers normally working in completely disparate fields.

***Kostya (Ken) Ostrikov*** is a Science Leader of the Office of Chief Executive with CSIRO, and a Professor with Queensland University of Technology, Australia. His achievements include Pawsey (2008) medal of Australian Academy of Sciences, Walter Boas (2010) medal of Australian Institute of Physics, Building Future Award (2012), NSW Science and Engineering Award (2014), election to the Academy of Europe (2015), 6 prestigious fellowships in 6 countries, several patents, 3 monographs, and >500 journal papers. His research on nanoscale control of energy and matter contributes to the solution of the grand challenge of directing energy and matter at nanoscales, to develop renewable energy and energy-efficient technologies for a sustainable future.

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