



## VABILO NA PREDAVANJE / INVITATION TO THE LECTURE

### **Prof. Dr. Gerhard Wegner**

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**Četrtek/ Thursday, 3. 9. 2009, ob / at 13:00**

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

## **Zinc Oxide: A Challenge for Polymer Science**

### Povzetek / Abstract

Zinc oxide is not only a most useful material as such but also an excellent model material to study and optimize the interaction of polymers with inorganics, e.g. pigments, fillers and reinforcing fibres. This lecture will provide an overview on the following topics:

- Control of nucleation and growth (morphology control) of zinc oxide crystals from solution by polymers
- Control of crystal size, morphology and composition by pyrolysis of polymer precursors
- Monodisperse size distribution of surface stabilized ZnO Nanocrystals from organic precursors
- Blends of ZnO Nanocrystals and PMMA: Optics
- Photophysical chemistry of ZnO

The lecture will provide general concepts for dealing with the interaction of polymers with inorganics and will try to give hints how to use "polymer-effects" to create novel structures and properties.

Vljudno vabljeni! / Kindly invited!