

GDCh- und Chemisches Kolloquium

Der GDCh-Ortsverband Oldenburg und das Institut für Reine und Angewandte Chemie der Carl von Ossietzky Universität Oldenburg laden zu einem Vortrag

von Prof. Dr. Ian Manners
Inorganic, Macromolecular and Materials Chemistry
University of Bristol

zum Thema **Functional and Supramolecular Metallopolymers**

herzlich ein.

Termin: **Donnerstag, den 10.07.2008 17 Uhr c.t.**
Großer Hörsaal der Naturwissenschaften, W3-1-161,
Carl-von-Ossietzky-Straße 9-11

Einladende Die Dozenten der Anorganischen Chemie

Polymers containing metal atoms are attracting increasing attention as they offer access to new functional macromolecular and supramolecular materials with novel properties (1). Our group has developed ring-opening polymerization routes to metallopolymers such as polymetalloenes with high molecular weights which allows easy processing. Controlled architectures (e.g. block copolymers) are available through living polymerization processes, including a remarkable recently developed photocontrolled method (2). This talk will focus on recent efforts to use these metallopolymers to create, for example, photonic devices, and self-assembled supramolecular structures, which can be used in nanolithographic applications and catalysis (3,4).

References:

1. I. Manners, Science 2001, 294, 1664.
2. Photocontrolled Living Polymerizations M. Tanabe, G. W.M. Vandermeulen, W-Y Chan, P.W Cyr, L. Vanderark, D. A. Rider and I. Manners Nature Materials 2006, 5, 467.
3. A. Arsenault, D. Puzzo, I. Manners, G.A. Ozin Nature Photonics 2007, 1, 468.
4. X. Wang, G. Guerin, H. Wang, Y. Wang, I. Manners, M.A. Winnik Science 2007, 317, 644.

GDCh-Ortsverband Oldenburg
Der Vorsitzende
Prof. Dr. Thorsten Klüner

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Der Direktor
Prof. Dr. Mathias Wickleder