Einladung zum Seminarvortrag

„Prediction of long-term performance of solid polymers based on short-term experiments“

by

Prof. Dr. Leon E. Govaert
Eindhoven University of Technology

Datum: **Mittwoch, 11. Mai 2011**

Zeit: **11.00 Uhr**

Ort: **Science Park, 3. OG, MT 0327**

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Biography
Leon E. Govaert

is **associate professor (UHD)** in polymer mechanics. He studied Mechanical Engineering at the **Eindhoven University of Technology** and received his Ph.D. degree from the same university in 1990, with Prof. Dr. P.J. Lemstra and Prof. Dr. Ir. M.J.W. Schouten as his advisors. Next he joined the Polymer Technology group of Prof. Han Meijer at the Department of Mechanical Engineering, Eindhoven University of Technology.

His main fields of experience and expertise are:

- *Structure-property relationships in solid polymer systems*. Interrelations between macroscopic mechanical properties and the molecular and micro-structural characteristics of the material.
- *Application and development of experimental techniques* for mechanical characterisation of polymers.
- *Constitutive modelling of solid polymers* , with an emphasis on time- and rate-dependent behaviour.

Application areas include:

- Durability: Long-term performance of polymers and polymer composites
- Toughness: Short-term performance of polymer systems
- Plastic localisation phenomena
- Physical ageing and rejuvenation effects in glassy polymers
- Scaling effects