



Polymer- & Soft-Matter-Seminar

Tuesday,
11th December
2012

at: **5.15 pm**

VSP1 1.26

Von-
Seckendorff-
Platz 1,
06120 Halle

Prof. Dr. Toyoji Kakuchi

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and Engineering, Division of Biotechnology
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"Organocatalytic Group Transfer Polymerization"

Development of a novel metal-free catalyst, so-called organocatalyst, has attracted a great deal of attentions because of increasing concerns in residual metal and depletion of rare metal. In addition, it is interesting to develop new controlled/living polymerization systems using organocatalysts. The lecture reports the group transfer polymerizations of methyl methacrylate, methyl acrylate, and N,N-dimethylacrylamide, using highly strong Brønsted acids, trifluoromethanesulfonimide and pentafluorophenyl-1,1-bis(trifluoromethanesulfonyl)methane, and a highly strong base, phosphazene base of t-Bu-P4.