

“DSM as a Life Science and Material Science Company”



DSM is a as a Life Science & Material Science Company with as purpose to create brighter lives for people today and generations to come.

This presentation will shortly introduce DSM, shows the basic polymer concepts used within DSM and will give a number of examples of how Polymer Chemistry is applied in a Specialty Chemicals Industry.

Topics include Aqueous Polyurethanes, Polycondensates, Acrylics and hybrids and controlled polymerization technology like RAFT. The importance of heterogeneity in creating desirable properties like block resistance, rheology and mechanical properties will get special attention. Other topics to highlight include haptic coatings with for instance rubber or velvet feel, Latex templated technology as basis for anti reflective coatings on solar panels and antimicrobial resins for BioMedical.

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Bio:

Graduated (Cum Laude) in Organic Chemistry in 1983, from the University of Utrecht, the Netherlands.

Ad's work has focused on the contribution of polymer technology to coatings, inks and adhesives developments and performance. In particular he has led a number of advancements in environmentally responsible coatings and has been highly instrumental in driving the industry's transition to waterborne resin technology. Since 2010 also responsible for the Competence development of new materials for BioMedical, Engineering Plastics and UHPE.

Key expertise is on synthesis and structure property relationships of polymer colloids, (controlled) radical polymerization, polyurethanes and polycondensates.

Ad Overbeek is an active member of the international coatings community and has been an active Advisory Board member of SEP (Foundation of Emulsion Polymerization) from 1988 till 20010. He has also served as industrial liaison and steering committee member for IOP-Paint (Innovative Research Program for Paints, by the Dutch Ministry of Economic Affairs) as well as serving on the Advisory Board of a number of symposia and conferences, most notably the Athens Conference (1999-2003) and Coatings Science International (2004-2012). Since 2012 acting as a committee member for the selection of an American Coatings Association Award.

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