第324回触媒化学研究センターコロキウム

共催　北海道大学フロンティア化学教育研究センター

Introduction Part :
Technology Scouting - A new strategy to support innovation

Dr. Masaharu Akiba (Manager Innovation Management, Evonik Degussa Japan Co., Ltd.)

Scientific Part :
Reaction Engineering Aspects of Oxidation Catalysis from Industrial Point of View

Dr. Horst-Werner Zanthoff (Evonik Industries AG, Head of Cimpetence Center “Green Oxidation Catalysis” Process Technology & Engineering Chemical Reaction Technology)

2013年5月20日（月）14:45—16:15

Building MC, 2nd floor, MC215, Faculty and Graduate School of Engineering, Hokkaido University

（北海道大学工学部材料・化学棟2階MC215）

http://www.cat.hokudai.ac.jp/access.html

Oxidation reactions are the most important class of chemical transformations to gain added value in chemical industry. Capacities for over 600 Mio. t of chemical products directly produced by an oxidation reaction presently exist world wide. However, oxidation reactions are usually not performed under optimum chemical or catalytic conditions, but are strongly influenced by the usual exothermicity of the respective oxidation reaction. In the past, a bunch of technical solutions has been developed to handle the exothermicity, i.e. multi-tubular reactors, short contact time reactors, fluid bed reactors, etc. and still research is ongoing to improve existing technologies or develop new strategies. Aim of the lecture will be to explain the different concepts to apply the catalysts in the best reactor environment. Pro's and con's are discussed. New developments of new reactor types or solutions (micro reactor concepts, foam catalysts) are touched as well.

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324th Catalysis Research Center (CRC) Colloquium

Frontier Chemistry Center, Hokkaido University