



Industrial Application of Organic Chemistry

Summer School 2015, Tromsø

Theoretical programme

MODERN METHODS IN ORGANIC SYNTHESIS

July 08.	Chemical industry: production, scaling-up, safety issues (KB)
July 09.	Transition metal catalysis in the pharmaceutical and fine chemical industry: General (AM)
July 10.	Cross-coupling reactions: General and mechanisms (AM)
July 13.	C-C single bond forming reactions: Friedel-Crafts reactions, α -arylation (KB)
July 14.	Metathesis and other C=C double bond formation reactions (AM)
July 15.	Oxidation and reduction on large scale (KB)
July 16.	C1-chemistry: Carbonylation, cyanation, Sandmeyer reaction (KB)
July 17.	Selective C-H functionalization (KB and JH)
July 20.	Aromatic and heteroaromatic privileged scaffolds (KB)
July 21.	Industrial cross-coupling reactions: Patented C-C, C-O and C-N bond forming reactions (KB)
July 22.	Organic reactions in aqueous media (FJ)
July 23.	Alternative technologies: Microwave-assisted organic synthesis and flow chemistry (FJ)
July 24.	Biocatalysis (KB)

Initials for the lecturers:

AM: Professor Agnes Mastalir

FJ: Professor Ferenc Joo

JH: Professor Jørn Hansen

KB: Dr. Krisztian Bogar