



Univerzita Karlova v Praze, Přírodovědecká fakulta
Charles University in Prague, Faculty of Science

School of Chemistry, Faculty of Science (FoS)
would like to invite you to attend the lecture

Quo Vadis Chemie

Transformation of Organic Molecules by Carbon-Carbon Bond Cleavage Reactions on Titanium



held on the occasion of awarding of
The Gold Medal of FoS, Charles University

Prof. Tamotsu TAKAHASHI

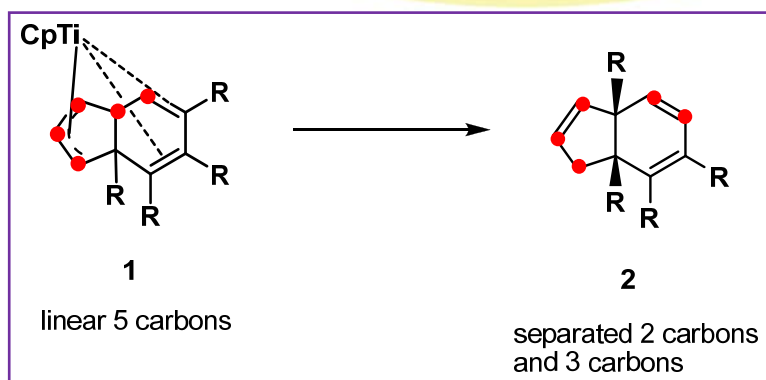
Institute for Catalysis, Hokkaido University,
Sapporo, Japan

on 25.04. 2016 at 15:00 hod.

the Lecture Hall CH2, the School of Chemistry Building, FoS CU
Hlavova 8, Praha 2

Abstract: Carbon-carbon bond cleavage is a challenge in organic chemistry. Observation of the carbon-carbon bond cleavage reaction of organic molecules on transition metals is important to understand the reaction mechanism of the carbon-carbon bond cleavage.

Titanium-dihydroindene derivatives **1** prepared from titanacyclopentadienes have linearly



aligned five carbons originated from Cp ligand. In this lecture, I would like to report that the linearly aligned five carbons in **1** were separated into three carbon groups and two carbon groups on titanium. This was verified by ^{13}C labelling experimental. The products **2** were obtained as free compounds.