



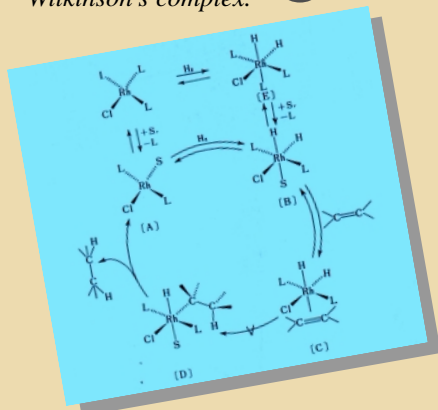
Charles Plank
(top),
Edward Rosinski
(bottom)

11



Mechanism of olefin
hydrogenation by
Wilkinson's complex.

12



Charles Thomas, a theory
of acidity and a sense
of humor.

- 1962:** Journal of Catalysis, the first scientific journal devoted solely to catalysis, begins publication with J. H. de Boer and P. W. Selwood as editors.
- 1962:** Description of “Vaska’s Complex,” the first to show reversible bonding of hydrogen and ethene within the coordination sphere (L. Vaska and J. W. D. Luzio, JACS, 84, 679 (1962)).
- 1963:** Sachtler proves, using ^{14}C -labeled propene, that a π -allyl complex is formed during propene oxidation (W. M. H. Sachtler, Rec. Trav. Chim., 82, 243 (1963)).
- 1963:** Ammoxidation of propene to acrylonitrile.
- 1963:** Theoretical model for describing elementary redox reactions for electrodes (R. A. Marcus, J. Phys. Chem., 43, 679 (1963)).
- 1964:** Introduction of rare earth metal stabilized X-zeolite for catalytic cracking by Mobil Oil - C. J. Plank, E. J. Rosinski and W. P. Hawthorn, 3, 165, (1964). Plank and Rosinski in the Inventors Hall of Fame.
- 1964:** Olah announces “Magic Acid,” a mixture of HF and SbF_5 reacts with hydrocarbons to produce stable carbocations that are observable using NMR. G. Olah awarded the 1994 Nobel Prize in Chemistry.
- 1964:** Olefin metathesis announced [R. L. Banks and G. C. Bailey, Ind. Eng. Chem, Prod Res. Dev., 3 170 (1964)] commercialized in 1966.
- 1964:** Mechanism for hydrocracking - H. L. Coonradt and W. E. Garwood, Ind. Eng. Chem., Process Design Dev., 3, 38 (1964).
- 1964:** K. Tamaru summarizes transient catalytic studies emphasizing IR techniques (Adv. Catal., 15, 65 (1964)).
- 1964:** Spillover of Hydrogen from $\text{Pt}/\text{Al}_2\text{O}_3$ to WO_3 (S. Khoobiar, J. Phys. Chem., 68, 411 (1964)).

12