



Ashland Petroleum introduces RCC (Reduced Crude Cracking) with 40,000 blb/day plant.

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**1983:** Enichen scientists report the use of titanium silicalite (TS-1) as a catalyst for selective oxidations with aqueous hydrogen peroxide, including olefin epoxidation (M. Taramasso, G. Pereyo and B. Natari, U.S. 4,410,501).

**1984:** The concept of monomolecular (five-bonded carbonium ion) and bimolecular (carbenium ion) mechanisms for catalytic cracking with zeolites (W. O. Haag and R. M. Dessau, 8<sup>th</sup> ICC, 2, 305 (1984)).

**1984:** Tennessee Eastman begins commercial plant operation to produce acetic anhydride from coal [V. H. Agreda, D. M. Pond and J. R. Zoeller, Chemtech, 22, 172 (1992)].

**1985:** Starting point for search for molecularly-defined polymerization catalyst (Metallocene Catalysts) (W. Kaminsky et.al. Angew. Chem., 97, 507 (1985)).

**1985:** A 14,500 bbl/day methanol to gasoline plant goes online in New Zealand.

**1987:** Catalysis Today begins publication with Julian Ross as Editor.

**1988:** Catalysis Letters begins publication with Gabor Somorjai and Sir John Thomas as Co-Editors.

**1988:** Toluene disproportionation process using Mobil's modified ZSM-5 catalyst.

**1988:** Use of electrochemistry to accelerate and precisely tune heterogeneous catalytic processes (C. G. Vayenas, S. Bebelis and S. Neophytides, J. Phys. Chem., 82, 5083 (1988)).

**1988:** VPI-5, an aluminophosphate containing rings with 18 oxygen atoms, was synthesized, and catalysis made the Wall Street Journal (M. E. Davis, C. Saldarriaga, C. Montes, J. Garces and C. Crowder, Nature, 331, 698 (1988)).



14,500 bbl/day methanol to gasoline plant goes online in New Zealand in 1985.

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Toluene disproportionation process using Mobil's modified ZSM-5 catalyst.

