***Vladimir P. Marin***

**Polyolefins, Polymerization Catalysis and Catalysts**

BASF (Houston, USA)

The presentation will cover the Polyolefin catalysts from history of discovery through development to commercial production. Ziegler-Natta catalysts from 1st to 5th generations are discussed. Metallocene catalysts and post-metallocene catalysts for olefin polymerization in laboratory and commercial plant are presented.

Polymerization process and mechanism of polymerization process is discussed. Relationship between catalyst structures and polymer properties is demonstrated. How to make catalyst with desired polymer properties? Isotactic, syndiotactic and atactic polypropylene.

Main steps from laboratory to plant. Commercial polyolefin production. BASF as the largest independent polyolefin catalyst supplier in the world. When you are looking for the right reaction from your polyolefin catalyst, turn to BASF. BASF will provide you right catalyst from innovative portfolio catalysts that will achieve the desired reaction.