



TNChE Asia 2024 Conference
" Decarbonization, AI and Digital Transformation
for Sustainability in Process Industries "
Presenter's Biodata & Abstract



Full Name : **Michael Tallman**
Company/ Organization : **KBR**
Current Position : **Director, Olefins Technology**



Title of Presentation : **Sustainable Catalytic Cracking Technology Useful for the Energy Transition**

Presentation Abstract :

Energy transition, sustainability, circular economy and plastics recycling are prominent "buzzwords" these days, and they are certainly important concepts toward a greener tomorrow. With these in mind, however, it is important to keep a perspective on the underlying business drivers for developing projects, and to apply innovative technologies that enable implementing these concepts whilst enhancing commercial opportunities.

KBR offers a suite of olefin technologies to suit the current economic environment, and the future direction of refinery and petrochemical operations, which includes our proprietary K-COT® catalytic cracking technology among others. K-COT® technology is flexible and suitable for integration with refineries, steam crackers, and / or integrated facilities to enhance their operating value.

The talk will include discussion on:



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- 1) how refinery and cracker by-products could benefit implementing innovative Catalytic cracking to produce more value-added chemicals – such as Olefins (especially Propylene). and Aromatics
- 2) the potential to utilize sustainable alternative feedstocks - bio-feeds and material from plastics recycling facilities, to improve flexibility, carbon intensity and economics for projects,
- 3) the potential to convert refinery streams directly to petrochemicals in response to anticipated drop in demand for fuels, and
- 4) a description of measures to reduce carbon emissions from such facilities