Bio-based processes for high performance polymers: Development and commercialization

Date: Wednesday, 14 Jan 2015
Location: JBEI Seminar Room, Building 978 Room 4134

Abstract:

Concerns about sustainability of fossil sources and global warming necessitate development and deployment of carbon neutral alternatives including biofuels and chemicals. The talk will expound upon metabolic engineering and principles for product-pathway selection from a commercial perspective. Recent progress towards development of an integrated bio-thermo-chemical process leading to multiple products with application in elastomers, unsaturated polyester resins, agro-chemicals and aromatics would also be presented.

Speaker Bio:

Dr. Deepak Dugar is leading the Visolis project at the Cyclotron road, Lawrence Berkeley National Labs. Cyclotron road (previously M37) is a new kind of Cleantech focused incubator for industrial technology innovation. His work towards development and commercialization of bio-based products has garnered multiple awards including the Catalyst award from MassCEC, the Winner of winners award from NECEC, Global Venture Labs Investment Competition award and the Asia Venture Challenge award. Previously, he worked as a management consultant at PwC advisory helping Cleantech clients with their commercialization efforts. He has also consulted for Royal DSM, NREL, Flagship Ventures etc. Dr. Dugar completed his Dual Degree in Biochemical Engineering and Biotechnology from IIT Delhi and MBA, M.S. and PhD in Chemical Engineering Practice from MIT.

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