

Title: “Review of biobased routes to polyamides”

Abstract:

The presentation will review past and recent monomer development from several companies to produce polyamides, either from vegetable oils or from sugars.

Arkema has been producing for more than 50 years the monomer for polyamide-11, and recently through acquisition has become a producer of monomers for polyamide 10,10. Through its continuous research program to find new routes to valuable monomers, Arkema is working on various chemistries using metathesis, oxidative cleavage or hydroformylation. Other companies have used fermentation technologies, or sugar oxidation for example to produce monomers such as diacids, diamines and amino-acids.