



Algae Based Systems II: Processing

Chairs: Ben Stuart, Old Dominion University and Umakanta Jena, New Mexico State University

Saturday, April 1, 2017

3:15 pm – 5:15 pm

3:00 pm

Lipid Extraction from Microalgae Using Supercritical CO₂ with Methanol

Shihong Liu and R. Guy Riefler [Ohio University]

3:20 pm

In Vitro Investigation to Explore Use of Post-extracted Microalgal Residue as a Sustainable Source of Dietary Protein for Ruminants

Jong-Su Eun, S.Y. Yang, J.M. Yang, R.C. Sims [Utah State University] and R.C. Anderson [SPARC-FFSRU]

3:40 pm

A Case Study of Pilot-Scale Continuous Flow Reactor for Hydrothermal Liquefaction of Algae

Feng Cheng, Travis Le-Doux, Juanita Miller, Catherine E. Brewer and Umakanta Jena [New Mexico State University]

4:00 pm

Two-stage Hydrothermal Processing of Algae and Aqueous co-Product (ACP) Recycling

Umakanta Jena [New Mexico State University] and S. Kent Hoekman [Desert Research Institute]

4:20 pm

Pressure Cycles-Assisted Ozonation Treatment of Produced Water Before and After Algae Cultivation

Xinyue Zhao, Ching-Chieh Lin and Andy Hong [University of Utah]