

## BBRL NEWS

Liancheng Yang has been offered a **Tenure Track Assistant Professor** position at Illinois State University. He will start his faculty position this fall.

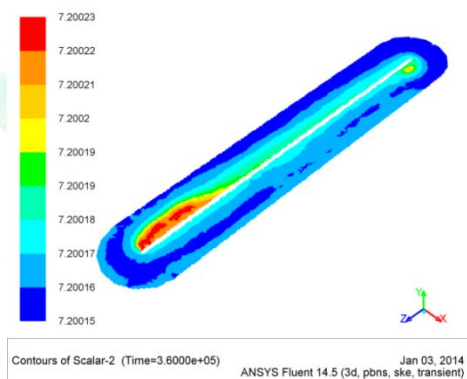
Siam's project titled "**High-Throughput Microalgae Screening**" has been selected by 2014 University of Akron (UA) National Science Foundation (NSF) I-Corps Sites Program. \$2500 will be provided by the program.

## JOURNAL CLUB UPDATE

The Journal club had two meetings in February. Stephen and Juliana organized the discussion on "Nonenzymatic sugar production from biomass using biomass-derived  $\gamma$ -valerolactone" and "Is it possible to develop biopolymer production systems independent of fossil fuels? Case study in energy profiling of polyhydroxybutyrate-valerate (PHBV)", respectively. Dr Ajay Shah attended the second meeting.

## GROUP SEMINAR

This month during the group seminar organized by Dr. Xumeng Ge, Stephen Park presented his results on the integration of biological kinetics and computational fluid dynamics to model growth of *Nannochloropsis salina* in an open-channel raceway.



- Zheng, Y., Zhao, J., Xu, F., Li, Y. 2014. Pretreatment of lignocellulosic biomass for enhanced biogas production. *Progress in Energy and Combustion Science: In press*. IF: 15.089
- Gómez, E.F., Luo, X., Li, C., Michel F.C., Li, Y. 2014. Biodegradability of crude glycerol-based polyurethane foams during composting, anaerobic digestion and soil incubation. *Polymer Degradation and Stability*. In press. IF: 2.770
- Zhao, J., Ge, X. Vasco Correa J., Li, Y. 2014. Fungal pretreatment of unsterilized yard trimmings for enhanced methane production by solid-state anaerobic digestion. *Bioresource Technology* 158: 248–252.
- Shi J, Xu F., Wang Z., Stiverson, J. A., Yu Z. 2014. Effects of microbial and non-microbial factors of liquid anaerobic digestion effluent as inoculum for solid-state anaerobic digestion of corn stover. *Bioresource Technology*. 157: 188–196. IF: 4.750.
- Zhao, J., Zheng, Y., Li, Y. 2014. Fungal pretreatment of yard trimmings for enhancement of methane yield from solid-state anaerobic digestion. *Bioresource Technology*. 156: 176-181. IF: 4.750
- Hu, S., Luo, X., Li, Y. 2014. Polyols and polyurethanes from the liquefaction of lignocellulosic biomass. *ChemSusChem* 7: 66–72. IF: 7.475.
- Zhu, J., Zheng, Y., Xu, F., Li, Y. 2014. Solid-state anaerobic co-digestion of hay and soybean processing waste for biogas production. *Bioresource Technology* 154:240-247. IF: 4.750
- Wang, Z. W., Li, Y. 2014. A theoretical derivation of the Contois equation for kinetic modeling of the microbial degradation of insoluble substrates. *Biochemical Engineering Journal*. 82: 134–138. IF: 2.579
- Sheets, J., Ge, X., Park, Y. S., Li, Y. 2014. Effect of outdoor conditions on *Nannochloropsis salina* cultivation in artificial seawater using nutrients from anaerobic digestion effluent. *Bioresource Technology*. 152:154-161. IF: 4.750

### Accepted with minor/major revision

- Hu, S., Li, Y. 2014. Polyols and polyurethane foams from base-catalyzed liquefaction of lignocellulosic biomass by crude glycerol: effects of crude glycerol impurities. *Industrial Crops and Products*. IF: 2.468
- Hu, S., Li, Y. 2014. Polyols and polyurethane foams from acid-catalyzed biomass liquefaction by crude glycerol: effects of crude glycerol impurities. *Journal of Applied Polymer Science*. IF: 1.40
- Hu, S, Li, Y. 2014. Polyols and polyurethane foams from two-step sequential liquefaction of lignocellulosic biomass by crude glycerol. *Bioresource Technology*. IF: 4.750

### Proposal submission

A proposal titled "Crude glycerol-based biosurfactants for shale gas drilling fluid formulations" prepared by Drs Yebo Li and Xiaolan Luo was submitted to North Eastern Sun Grant Program.

### Upcoming events, deadlines, or grants

- 3/10-Poster title and abstract submission for OARDC Annual Conference
- 3/12- Deadline to apply for ASABE Boyd-Scott Graduate Research Award
- 3/17-Deadline for submitting posters (pdf) for OARDC Annual Conference
- 3/17-Deadline for nominations for FABE Graduate Research Award
- 4/24-OARDC Annual Research Conference
- 5/23-Deadline applications for Summer Graduation

## BBRL RESEARCH

### 2014 Peer Reviewed Journal Publications

- Luo, X., Li, Y. 2014. Synthesis and characterization of polyols and polyurethane foams from PET waste and crude glycerol. *Journal of Polymers and the Environment*. In press. IF: 1.495

### Editors

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