S-1041 Multistate Committee Annual Meeting Minutes

Aug 8-9, 2016

USDA ARS, WRRC, Albany CA

Meeting organizing committee: Laura Franklin - WRRC, Christopher Carter – WRRC, Kent Rausch – U. of Illinois, Mike Tumbleson – U. Of Illinois, Ganti Murthy – Oregon State University, & Troy Runge – U. of Wisconsin.

August 8, 2016

Christopher Carter – WRRC director’s office

* Welcome to CA and the WRR Center
* Lunch options
* 4 Centers throughout US
* Covered safety & building restrooms

William Orts – Research leader for Bioproducts Research Unit

* Internal research arm of USDA (CA, PA, IL, LA)
* 1800 scientists
* Can work on internal budgets or external
* Work on 5 year research plans
* Director represents 8 Western States
* Discussed agenda/tour/menu/transportation

Ganti Murthy - OSU

* Please pay registration to Ganti (checks or cash). To Oregon State University - $100

Bill Brown – UT, USDA liaison

* Welcome everyone
* Group has been together for 3 periods of 5 years each
* Encourage joint research and collaboration
* USDA was going to be here (D. Cassidy); Not sure if airline issue or budget.

Chandra Theegala – Chair for executive committee

* Introductions were made (Name, location, primary area of research).
* Selected three volunteers for poster competition judging.
* Station reports were done orally (~3 mins/station)
  + Most areas discussed larger research centers or projects
  + Reporting stations (Clemson, Iowa State University, Kansas State University, Oregon State University, University of Minnesota, University of Wisconsin, West Virginia University, Louisiana State University, Montana State University, North Dakota State University, Purdue University, South Dakota State University, University of Wisconsin, University of Hawaii, University of California Davis, Washington State University, University of Nebraska, Rutgers, University of Tennessee, University of Kentucky)
  + See station reports for details
  + Plans are to have written reports submitted to G. Murthy
  + New book Bioenergy: Principles and Applications will be completed this fall, written by many of the S1041 group (lead by Samir and Yebo)

Poster Session and Grad Student poster competition was held

Business meeting

* 2016 meeting agenda was approved
  + One new item – report capturing with Qualtrix
* 2015 meeting minutes were approved
  + Mike Tumbleson reported on minutes
  + Yebo Li took minutes (Wooster, OH meeting)
* S-1041 email list representative
* Description of S-1041 program and officer roles was held
* Officer election was held
  + Secretary - Scott Pryor
  + Vice - chair - Troy Runge
  + Chair - Yebo Li
* 2017 Symposium Topic
  + Going to be held in DC
  + In-conjunction with BETO conference
  + Mid-June (don’t have a date yet)
  + Troy Runge to organize speakers
  + Runge discussed Interdisciplinary Research: Harnessing Big Research
  + Challenges and success stories of Big Research project
  + US Fed Agencies can talk about motivation for creating RFP
  + BRC can talk about how big research was created
  + Andy could talk about his experiences (or other BRDI projects)
  + The challenge of big research. Why it works and why it doesn’t
  + Multiple perspectives (CAP/BRDI Project leads, BRC directors, CAP/BRDI reviews)
  + Is it better to educate agencies on what technologies are important
  + Discuss during lunch
  + Many team members - federal view to where funding/roadmap is going
  + Bioenergy Technologies: Reflection and Path forward
* 2018 S-1041 project rewrite
  + Topics may change with 2017 symposium topic
  + May want to broaden (water/energy/bioproducts)
  + Timeline
    - Current project ends Sept 30, 2018
    - May be possible to get extension but must be writing
    - Suggest take a significant block of time during 2017 meeting for writing
    - Develop objectives / draft with a few people as lead.
    - Submission ideally 6 months in advance.
    - Since no tours in DC, can possibly work during second day.
* 2018 venue
  + 1- NREL Golden CO
  + 2- UW Madison
  + 3- Argonne NL
  + Mike Tumbleson will check on NREL availability/interest. Will use UW Madison as backup.
* On-line survey will be used for station reports to help organize station reports.
* Drs. Murthy, Rausch, Tumbleson and Runge to be thanked for organizing along WRRC (Bill Orts, De Young, Laura Franklin, & Christopher Carter)

Facility tours

* USDA ARS WRRC Labs
* DOE JBEI Labs was cancelled due to new security procedure.

Group dinner held at HS Lordships Restaurant

August 9, 2016

Welcome

Poster competition (Prize)

1. William Hohenschuh $200
2. Hossein Tabatabaie $100
3. Sun Min Kim $50

Housekeeping items

* Please provide registration checks if you have not already
* Rides to airport – please see. Dr. Murthy
* Dinner – please see poster 25 for charges if attended
* Special thanks to
  + Bill Otts
  + Chris Carter
  + Laura Franklin
  + Invited speakers
  + Organizing committee

Speakers

* Presentations available at <http://www.oardc.ohio-state.edu/s1041/images/Agenda_S1041_Symposium.pdf>
* Paul Bryan – The Future of Liquid Transportation Fuels
  + Excellent view to future of transportation fuels including: chemistry, thermodynamics, yields and economics.
* Karen Lapsley - California Almond Industry Searches for Innovative Solutions for Biomass
  + Overview of opportunities for the growing almond industry – technology needs and funding opportunities.
* Peggy Lemaux – Engineered & Edited Crops – Where are we?
  + Overview and future view of biotechnology, genome editing, genetic engineering, and regulation of GM crops.
* John Wind - Driving Sustainability at the Energy-Water-Food Nexus
  + Overview of sustainability (definitions, resource availability, climate change, decarbonizing power, water sustainability)
* Joseph James – ATP’s Patent-pending Combined Remediation, Biomass & Bio-product Production (CRBBP) Process
  + Describes systems of growing crops to remediate soils and use biomass for products. Looking for research partnerships.
* William Orts – Western Regional Research Center
  + Overview of the WRRC, people, mission, research areas.
* Christian Tobias – Molecular Biology Research Overview
  + ARS research on switchgrass research (history, bioenergy need, genomics, genetic modifications)
* Gregory Glenn – Bioproducts Research Overview
  + ARS research on bioproducts (composites, nanomaterials, fire retardants, delivery systems for 2-heptanone)
* Mike Waggoner – Grow Plastics
  + Expanding plastic technologies (solid state foaming), better properties, biobased (PLA) allows for better costs
* Anne Schauer-Gimenez – Mango Materials
  + Production of biopolymers from biogas; platform using methanotrophic bacteria.
* Allison Flynn – Omnis Minerals
  + Use of biochar and mineral waste to improve soil fertility

Meeting adjourned

\respectfully submitted by Troy Runge