

S-1041 Multistate committee Annual Meeting and Symposium

Dear S-1041 Members,

Greetings:

We are glad to inform you all that we are looking forward to a great program this year in Albany, California. Here are some of the details regarding the meeting this year. We will be sending you updates in coming weeks and hope we have a great participation.

1. **Date and Time:** The 2016 S-1041 multistate committee meeting will be held on 8 and 9th August, 2106 at Western Regional Research Center, Albany, California.
2. **Student poster competition:** We will have a student poster presentation competition and recognize three best posters. All students who wish to participate in poster competition must submit a letter from their advisor indicating their current student status (no exceptions to this requirement).
3. **Registration fees:** A registration fee of \$100 for all participating members payable by check to host institution. Registration will include lunch and tea/coffee for the two days of the conference and publication costs. All registrants will be provided with a copy of the proceedings.
4. **Symposium:** As we all discussed last year, we will be having a symposium on “Food, Energy and Water Nexus”. The organizing committee has been working very hard and we have a great lineup of speakers from producers, industry and policy makers.
5. **Outreach efforts:** Our committee members decided that we need to have a website to better communicate our results. Dr. Yebo Li, Ohio State Univ. has taken the lead to establish the S1041 website at: <http://www.oardc.ohio-state.edu/s1041/pageview.asp?id=3853>
6. **Transportation to/from Albany, CA:**
Airports: Oakland (10 mi) and San Francisco (22 mi). No transportation will be provided to the registrants from the airports. Local transportation will be provided to and from hotels in vans.
Hotels and Accommodations: Best ones are located at the end of Bay Bridge. Hotels in Ameriville (4-5 miles for WRRC) and Berkeley (not preferred). There are no hotels in Albany. We will provide more information in next update.
7. **Deadlines:**
 - a. April 15th, 2016: First notice of the meeting to Membership.
 - b. July 10th, 2016: Poster abstracts and symposium papers due to Prof. Mike Tumbleson (mtumbles@illinois.edu).
 - c. Aug, 8-9th, 2016: S1041 Meeting

Meeting Organizing Committee: G.S. Murthy, Kent Rausch, M.E. Tumbleson, and Troy Runge

Host and Host Institution: Dr. Bill Orts, Director, Western Regional Research Center, ARS, USDA, Albany, CA.

S1041 Executive Committee: Chandra Theegala (Chair), Yebo Li (Vice chair) and Troy Runge (Secretary)

Tentative Agenda for S1041 Multistate committee meeting

Host and Host Institution: Dr. Bill Orts, Director, Western Regional Research Center, ARS, USDA, Albany, CA.

8th August, 2016 (Day One):

1. 7:45 am-8:00 am : Poster set up
2. 8:00 am -8:05 am: Welcome and introduction
3. 8:05 am -8:15 am: Opening remarks by Host institution representative
4. 8:15 am -8:20 am: Welcome and opening remarks by S-1041 liaison and USDA, National Institute of Food and Agriculture representative.
5. 8:20 am -8:40 am: Welcome and opening remarks administrative advisor for S-1041, USDA, National Institute of Food and Agriculture.
6. 8:40 am -9:00 am: Introduction of attendees
7. 9:00 am-9:45 am: Station reports
8. 9:45 am-11:00 am: Poster Session I
9. 11:00 am -12:00 pm: Business Meeting
 - a. Old Business
 - i. Approval/Additions of 2016 Meeting Agenda
 - ii. Approval of 2015 meeting minutes.: Chandra Theegala
 - iii. Progress on updates to S-1041 email list and station representatives contacts
 - b. New Business
 - i. Election of officers
 - ii. Symposium topic for 2017
 - iii. Other additional items for discussion
10. 12:00 pm - 1:00 pm: Lunch
11. 1:00 pm -5:00pm Facility Tours
 - a. WRRRC, USDA laboratories.
 - b. DOE JBI laboratories.
 - c. Additional facilities
12. GROUP DINNER

9th August, 2016 (Day Two): **Symposium on “Water-Energy-Food Nexus”**

1. 8:00 am: Introductory remarks and introduction of the speakers.
2. 8:10 am - 8:50 am: Speaker 1, 2 followed by 20 min Break
3. 9:10 am - 9:50 am: Speaker 3, 4 followed by 20 min Break
4. 10:10 am - 10:50 am: Speaker 5, 6 followed by 20 min Break
5. 11:10 am - 11:30 am: Speaker 7, 8
6. 11:30 am - 12:30pm: Lunch break
7. 12:30 pm - 3:15 pm: **Research Presentations from WRRRC researchers**
8. 1:30 pm - 1:45 pm: Break
9. 3:15 pm - 3:30 pm: Break
10. 3:30 pm - 3:45 pm: Closing remarks and meeting adjournment

Format example for 2016 S-1041 poster abstracts.
Submit, via e-mail, prior to 10 July, 2016.

COPRODUCTS FROM CORN PROCESSING: ENERGY, NUTRIENTS AND WATER

Kent D. Rausch^{1*}, Ronald L. Belyea², Vijay Singh¹, Thomas E. Clevenger²,
Matthew A. Wallig¹, David B. Johnston³, Bruce S. Dien⁴ and M. E. Tumbleson¹
¹University of Illinois, Urbana, IL 61801; ²University of Missouri, Columbia, MO;
³Eastern Regional Research Center, ARS, USDA, Wyndmoor, PA; and
⁴National Center for Agricultural Utilization Research, ARS, USDA, Peoria, IL
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Coproducts, including fuel ethanol and a range of biobased products, are produced in parallel with a primary product during processing. One fourth to one third of material exiting modern corn processes does not increase in value relative to original corn value (Rausch and Belyea, 2006).

The enzymatic dry grind process creates a germ coproduct with oil content similar to germ from wet milling wet milling and a distillers dried grains with solubles (DDGS) coproduct with reduced fiber and increased protein contents (Singh et al., 2005).

LITERATURE CITED

- Rausch, K.D. and Belyea, R.L. 2006. The future of coproducts from corn processing. *Appl. Biochem. Biotechnol.* 128:47-86.
- Singh, V., Johnston, D.B., Naidu, K., Rausch, K.D., Belyea, R.L. and Tumbleson, M.E. 2005. Comparison of modified dry grind corn processes for fermentation characteristics and DDGS composition. *Cereal Chem.* 82:187-190.

Background information for 2016 S-1041 poster abstracts due 10 July, 2016

Abstracts:

Please utilize:

- Ragged right margin
- 12 font
- Times New Roman
- No hyphens at ends of lines

Forward, via e-mail, copies of poster abstracts to:

Mike Tumbleson mtumbles@illinois.edu
Agricultural and Biological Engineering
360D Agricultural Engineering Building
University of Illinois at Urbana-Champaign
1304 West Pennsylvania Avenue
Urbana, IL 61801 217-333-9786

Posters:

- A one page abstract is required for each poster.
- Poster board dimensions will be provided at a later date.
- Poster boards, easels and poster pins will be provided.

Proceedings:

Each symposium speaker may have one to ten pages for the proceedings.
Kent Rausch, G. S. Murthy and Mike Tumbleson will edit, finalize format and prepare for printing the proceedings. The proceedings will have a title page, list of participating institutions, agenda, table of contents, poster abstracts and list of authors.

S-1041 Membership:

A draft of the list of participating institutions and contact individuals is included. Please make additions, subtractions and/or whatever to provide an up to date listing.

Participating Institutions

Administrative Advisor	William Brown
BCE, NIFA, USDA	Daniel Cassidy
National Agricultural Library	Peter Arbuckle
Auburn University	Oladiran Fasina
Clemson University	Terry Walker
Cornell University	Lindsay Anderson
Iowa State University	Buddhi Lamsal
Kansas State University	Donghai Wang
Louisiana State University	Dorin Boldor
Michigan State University	Carl Lira
Mississippi State University	Fei Yu
Montana State University	Chengci Chen
North Carolina State University	Stephen Kelley
North Dakota State University	Igathinathane Cannayen
Ohio State University	Yebo Li
Oklahoma State University	Mark Wilkins
Oregon State University	G. S. Murthy
Pennsylvania State University	Ali Demirci
Purdue University	Bernie Tao
Rutgers University	Gal Hochman
South Dakota State University	Kasiviswanuth Muthukumarappan
Texas A&M University	Sergio Capareda
University of Arizona	Joel Cuello
University of Arkansas	Julie Carrier
University of California, Davis	Ruihong Zhang
University of Hawaii	Samir Khanal
University of Illinois	Kent Rausch
University of Kentucky	Sue Nokes
University of Minnesota	Roger Ruan
University of Nebraska, Lincoln	Deepak Keshwani
University of Tennessee, Knoxville	Alvin Womac
University of Texas, Austin	Jonathan Chen
University of Wisconsin	Troy Runge
Washington State University	Bin Yang
West Virginia University	Kaushlendra Singh