

# **Circular Bioeconomy Systems (CBS) Day 2024**

Sunday, July 28, 2024

Anaheim, CA

## **PROGRAM**

(updated July 15, 2024)

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### **PROGRAM OBJECTIVES:**

#### **I. Highlight CBS activities**

- a. Forming multi-disciplinary partnerships and working teams
- b. Building the CBS network by connecting with other circular bioeconomy programs;
- c. Engaging with foundations and funding agencies to increase funding opportunities

#### **II. Present goals and outcomes of multidisciplinary stakeholder Workshops**

#### **III. Seek inputs for organizing the CBS Summit in 2025**

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*Presiding:*     **Dr. John F. Reid, Interim Chair of CBSI**

**8:00 am**        **Welcome & Introduction – Dr. John Reid, CBSI Interim Chair.**

**(5 min for Company Sponsor talk)**

- *Highlight activities and progress of CBSI, and its impact on building programs, activities, and multidisciplinary partnerships for advancing CBS*
- *Recognize contributions of professional societies and stakeholders*
- *Provide an overview of CBSI sessions & activities within AIM 2024*

**8:25 am**        **Panel I - Lessons Learned from CBS Multi-disciplinary Stakeholders Workshops**

*The session will summarize the purpose, process and overall outcomes of the eight multidisciplinary workshops focused on knowledge, techniques and skills needs to transform linear systems to circular systems.*

#### **Recognition Statement**

*(“This workshop was funded in whole or part by the United States Agency for International Development (USAID) Bureau for Resilience and Food Security/Center for Agriculture-led Growth under the Cooperative Agreement # AID-OAA-L-14- 00006 as part of Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification (SILL). Any opinions, findings, conclusions, or recommendations expressed here are those of the authors alone.”)*

**Moderator:** **Dr. David Jones**, Professor, University of Nebraska-Lincoln

**Panelists:** Ignacio A. Ciampitti, Diwakar Vyas, Ximing Cai, K.C. Ting, Lara Ramdin, Stephanie Peabody, John Reid, and John Classen

*[Dr. David Jones will present a summary of outcomes of the eight multi-disciplinary stakeholders CBS workshops which will be followed by a Q/A session. One representative from each CBS workshop listed above will be the panelists to address questions to the audience]*

**10:00 am**        **Coffee Break**

**10:30 am**        **Panel II –Building Multidisciplinary Partnerships to Advance System-level Innovations for Circular Bioeconomy Systems**

**(2-3 min for sponsor talk - TBA)**

*The panel will share current industrial examples of circular bioeconomy systems and engage participants in exploring research needs and ways to build interdisciplinary partnerships,*



**Moderator: Sudhagar Mani**, Professor, University of Georgia

**Panelists: Dr. P. V. Vara Prasad, Dr. Jim Dooley, Dr. Ziyne Boz, Dr. Stella Salvo, Dr. David Zilberman, and Mr. Ernie Shea**

*[Each panelist will give 10-min opening remark/presentation on topics listed below, followed by a 25-min discussion and Q/A]*

Building Interdisciplinary Teams and Circular Bioeconomy in Farming Systems

**Dr. P. V. Vara Prasad**, Distinguished Professor, Kansas State University and Former President, Crop Science Society of America.

Building the Circular Bioeconomy in Forest Systems

**Dr. Jim Dooley**, Chief Technology Officer, Forest Concepts LLC.

Building the Circular Bioeconomy in Food Systems

**Dr. Ziyne Boz**, Assistant Professor, University of Florida

Circularity Challenges in Smallholder Farming Systems

**Dr. Stella Salvo**, Head of Breeding Partnerships for Smallholder Farming, Bayer Crop Science

Socio-Economic-Policy Implications in Circular Bioeconomy Systems

**Dr. David Zilberman**, Distinguished Professor, UC-Berkeley.

Global Perspectives on Circular Bioeconomy - Report from COP 28

**Mr. Ernie Shea**, President, Solutions from the Land.

**11:35 am**      **Panel Discussion & Q/A**

**12:00 Noon**      **Lunch Break**

**1:00 pm**      **Panel III – Research & Development, and Funding Opportunities in CBS**

*Identify the importance of and developing funding opportunities for advancing CBS.*

**Moderator: Dr. Erin Webb**, Lab Relationship Manager, Oak Ridge National Laboratory (ORNL) *[Each panelist will give 15 min presentation/talk]*

**1:05 pm**      **Research Funding Opportunities in Circular Bioeconomy Systems (CBS)**

**Perspectives of a foundation.**

**Dr. Genevieve K. Croft**, Program Scientist, Schmidt Sciences.

**Perspectives of a federal agency.**

**Dr. Mark Elless**, Technology Manager, Bioenergy Technologies Office (BETO), **Department of Energy (DOE).**

**1:35 pm**      **Q/A**

**1:45 pm**      **Examples of CBS-related multidisciplinary Projects**

**A funded project in a university (UTK-ONL)**

**Dr. Nicole Labbe**, professor and assistant director of the UT Institute of Agriculture's Center for Renewable Carbon.

**A funded Project in a federal lab (INL)**

**Dr. Vicky Thompson**, Distinguished Staff Engineer, Idaho National Laboratory.



- 2:15 pm Q/A
- 2:30 pm Coffee break – (CBS Day Poster Display)
- 3:00 pm **Panel IV: Building a multidisciplinary global community to innovate sustainable circular bioeconomy systems and to advance education and professional development.**  
*This session will engage participants in (1) exploring the importance of building a global community of multidisciplinary teams: (Needs, Gaps, Opportunities, and Future), and (2) planning a **Circular Bioeconomy Systems Summit** that will convene key agencies, industries, and professional societies as a next step in building a global multidisciplinary community.*
- Moderator: Dr. Brahm P. Verma**, Professor *Emeritus*, University of Georgia,  
**Facilitator: Dr. B. Jan Middendorf**, Professor, Kansas State University
- 4:15 pm **Closing Remarks**  
**Dr. John Reid**, Interim Chair of CBSI
- 4:30 pm **ASABE AIM Reception**
- 5:15 pm - **CBS Day Poster Session**  
**Moderators: Alicia Modenbach**, University of Kentucky **and Anna Cidreira**, South Dakota State University
- 6:30 pm **Adjourn**

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*This update is made by B. Verma & Sudhagar on July 16, 2024 @1:00 pm*



## **CBSI Sessions within ASABE AIM**

July 29, 2024 - Monday

- 8:00 am ASABE AIM Keynote Session**
- 9:30 am 103 - CBSI "Opportunities and Challenges in Circular Bioeconomy Systems"**  
**Moderator:** Dr. KC Ting, University of Illinois at Urbana-Champaign.
- 9:30 am Panel Introduction**  
**Dr. KC Ting**, Professor Emeritus, University of Illinois at Urbana-Champaign
- 9:40 am CBS Multi-Stakeholder Workshop Outcomes and Summary**  
**Dr. David Jones**, Professor, University of Nebraska-Lincoln
- 10:10 am NIFA Funding Opportunities for Climate Change and Circular Economy Research, Education and Extension, Dr. Kauslandra Singh Tingy**, National Program Leader, Climate Change, NIFA, USDA.
- 10:40 am ISO's Circular Economy Standards and Metrics**  
**Ms. Michele L. Wallace**, Director, Sustainability Standards Development, Cotton Inc.
- Noon Break**
- 2:30 pm 127 CBSI - Advances in Circular Bioeconomy Systems (Oral technical session)**  
**Moderator:** Dr. Oladiran O. Fasina, Auburn University.
- 2:35 pm An Index for Quantifying Circularity of Bioeconomy Systems**, Yuanhui Zhang, University of Illinois Urbana-Champaign.
- 2:50 pm Enabling a Circular Bioeconomy Through Data: Identifying Business Capabilities and Data Flows in the Context of ISO Standardization Opportunities**, R. Andres Ferreyra, Syngenta.
- 3:05 pm Redesigning tomato plasticulture with sustainable intensification and circularity**, Adam Fuerst, University of Florida, Gainesville.
- 3:20 pm Holistic Methodology to Guide the Evolution of Sustainable Aviation Fuel Production Technologies**, Manuel Garcia-Perez, Washington State University.
- 3:35 - 3:45 pm Break**
- 3:45 pm Don't stop at circular bioenergy systems; we need a re-carbonized bioeconomy**, Steph Herbstritt, Clean Air Task Force, Boston, Massachusetts.
- 4:00 pm Stochastic Trade-off Assessment for Sustainability and Resilience in Circular Food Systems: A case Study in the Midwestern Beef Production**, Tinn-Shuan Uen, University of Illinois Urbana Champaign.
- 4:15 pm Future scenarios for arable and livestock agriculture in New Zealand**, Thomas A. Cochrane, University of Canterbury, Christchurch, New Zealand.
- 4:30 pm Roads to Removal: A National Assessment of Biomass Carbon Removal & Storage (BiCRS)**, Joe Sagues, North Carolina State University.
- 5:30 pm CBSI Social Event**  
Hosted by Dr. John Reid, CBSI Interim Chair – Room for 100 people  
[CBS Logo sticker (1000) distribution to participants]