

## **CBSI Interim Leadership (August 2023 – July 2024)**

The overall CBSI structure in 2023-2024 includes a leadership team and four working groups, each of which has a chair, vice chair, and past chair. A separate executive committee comprises the officers of the leadership team and working groups.

The leadership team and working groups during this interim year are responsible for building initial connections across ASABE members as well as building relationships with other disciplines and stakeholders. The intent is for the interim officers to develop bylaws, define and obtain approval for a new CBSI Affiliate membership, to design and develop an initial CBSI website that works in harmony with the ASABE website, and most importantly, help lead in the organization and implementation of multidisciplinary workshops in which invited thought leaders from different disciplines and stakeholders helped develop a strategy for future networks and activities that advance innovations for a more circular bioeconomy.

### **CBSI Interim Officers in 2023-2024**

#### **Leadership Team**

The Leadership Team is responsible for the overall work of the CBSI and for making important decisions. It is also responsible for communicating to ASABE's Board of Trustees and Councils.

John Reid, Chair  
Oladiran Fasina, Vice Chair  
James W. Jones, Past Chair

#### **Working Group 1 – Metrics and Standards**

Develops and promotes CBSI methods, metrics, and standards. Forms specific interdisciplinary teams and committees for pursuing development of methods, metrics, and standards to advance circular bioeconomy systems development and adoption.

Ed Barnes, Chair  
Erin Webb, Vice Chair  
Ziyet Boz, Past Chair

#### **Working Group 2 – Meetings**

Organizes meetings, conferences, and fora with ASABE, CBSI, and external stakeholders. Connects with ASABE technical communities, professional societies, and stakeholder groups to form multidisciplinary stakeholder teams responsible for organizing meetings, conferences, and focus groups.

Sudhagar Mani, Chair  
KC Ting, Vice Chair  
Alicia Modenbach, Past Chair

#### **Working Group 3 – Innovation**

Creates multidisciplinary stakeholder partnership teams to innovate systems in the context of advancing circularity of the entire food and agriculture systems of systems. Forms specific interdisciplinary teams and committees as needed to pursue development and adoption of innovative system-level solutions that address complex societal challenges.

David Jones, Chair

Lara Moody, Vice Chair

Brahm Verma, Past Chair

#### **Working Group 4 - Outreach and Promotion**

Responsible for leading the development and distribution of technical and messaging documents to publicize CBSI widely and to recognize excellence. Connects with ASABE technical communities, professional societies, and stakeholder groups to form multidisciplinary stakeholder teams responsible for publicizing CBSI and its activities within ASABE and externally.

Murat Kacira, Chair

Zong Liu, Vice Chair

Maury Salz, Past Chair

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### **CBSI Officers Elected for August 2024 - July 2025**

Below are CBSI officers who have been elected to serve during 2024-2025. During the CBSI Interim year in 2023-2024, officers completed the work necessary to form the new institute operating under the umbrella of the ASABE, including obtaining ASABE Board of Trustees approval for CBSI Affiliate members who are not members of ASABE in addition to CBSI members who are ASABE Members. CBSI Bylaws were written and approved, a new website was developed ([cbsi-asabe.org](http://cbsi-asabe.org)) containing menu items for joining CBSI, registering for meetings, and donating to CBSI, and 8 CBS interdisciplinary workshops were funded with funds being managed by ASABE, and officers to serve CBSI during 2024-2025 were elected.

During 2023-2024, CBSI leaders developed a different internal structure for CBSI to conduct its business while interfacing with ASABE. CBSI now has 4 overall leadership officers and 4 Working Teams, each with 4 officers (Chair, Chair-Elect, Vice Chair, and immediate Past Chair). The CBSI Leadership Team and each of the 4 Working Team officers transition from Vice Chair to Chair-Elect to Chair and finally to Past Chair before transitioning out of this rotation after their 4-years of service. Duties and responsibilities for each officer position are described in the CBSI Bylaws.

Below is the slate of CBSI officers who will serve from August 1, 2024, through July of 2025.

# Circular Bioeconomy Systems Institute (CBSI) 2024-25 Officers

## LEADERSHIP TEAM



**David Jones, Chair** - Email: [david.jones@unl.edu](mailto:david.jones@unl.edu)

Professor, former head of biological systems engineering department, and former associate dean of college of engineering at the University of Nebraska - Lincoln. He is a Fellow of the American Society of Agricultural and Biological Engineers (ASABE), former President of the Institute of Biological Engineering (IBE), a member of the American Society of Engineering Education (ASEE), and American Associations for the Advancement of Science (AAAS).



**Erin Webb, Chair-Elect** - Email: [webbeg@ornl.gov](mailto:webbeg@ornl.gov)

Leads the Bioresource Science & Engineering Group and Laboratory Relationship Manager of the DOE Bioenergy Technology Office at Oak Ridge National Laboratory. She co-leads the University of Tennessee-Oak Ridge Innovation Institute's new Circular Bioeconomy Systems Initiative. She is a member of the American Society of Agricultural and Biological Engineers (ASABE).



**Edward (Ed) Barnes, Vice-Chair** - Email: [ebarnes@cottoninc.com](mailto:ebarnes@cottoninc.com)

Senior Director of Agricultural & Environmental Research, Cotton Incorporated. He manages agricultural engineering related projects, including ginning, precision farming, irrigation, and conservation tillage system research. He served on the Editorial Board of Agricultural Water Management, and on the Science Advisory Council of Field to Market, The Alliance for Sustainable Agriculture. He is a Fellow of the American Society of Biological and Agricultural Engineers (ASABE) and has served on the ASABE Board of Trustees.



**John F. Reid, Past-Chair** - Email: [j-reid1@illinois.edu](mailto:j-reid1@illinois.edu)

Research Professor in Computer Science, Ag & Bio Engineering, Electrical and Computer Engineering at University of Illinois, Urbana-Champaign (UIUC). John has extensive technology leadership experience in industry and academia focused on sensing, agricultural robotics and automation, and control systems engineering for food and agricultural applications. He is a member of the National Academy of Engineering and a Fellow of ASABE.

## WORKING TEAM - 1

### Innovate Circular Systems



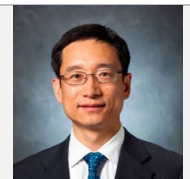
**Charles (Chuck) W. Rice, Chair** - Email: [cwrice@ksu.edu](mailto:cwrice@ksu.edu)

University Distinguished Professor and Mary Vanier Endowed Professor in the Department of Agronomy at Kansas State University. Dr. Rice has garnered international recognition, including being a co-winner of the 2007 Nobel Peace Prize for his contributions to the United Nations' Intergovernmental Panel on Climate Change. His research spans soil quality, microbiology, and climate change, aiming to improve and protect the environment. Dr. Rice served as President of Soil Science Society of America. (SSSA). He also contributes to national initiatives like the National Academies Board on Agriculture (BANR) and the U.S. Department of Agriculture's Agricultural Air Quality Task Force.



**Niki Labbe, Chair-Elect** - Email: [nlabbe@utk.edu](mailto:nlabbe@utk.edu)

Professor of Biomass Chemistry and the Assistant Director of the Center for Renewable Carbon, with the School of Natural Resources as her academic home. Her research interest focuses on understanding properties of biomass –appearance, variability, and potential for conversion to various products such as fuels, chemicals, and value-added products in the context of circular bioeconomy systems. Her research program focuses on the fractionation and conversion of lignocellulosic biomass into a portfolio of products.



**Changying (Charlie) Li, Vice-Chair** - Email: [cli2@ufl.edu](mailto:cli2@ufl.edu)

Professor of agricultural AI and automation in the department of agricultural and biological engineering, University of Florida. His research interests are in robotics for phenomics and precision crop management, and sensing technology for agri-food product quality and safety evaluation. He is a member of American Society of Agricultural and Biological Engineers (ASABE) and IEEE Robotics and Automation Society.



**Lara Moody, Past-Chair** - Email: [LMoody@afia.org](mailto:LMoody@afia.org)

Executive Director for the Institute for Feed Education. She provides leadership to the public charity's activities including program development, strategic partnerships and collaborative resourcing. Prior to joining IFEEDER in April 2021, Moody served as the vice president of stewardship and sustainability at The Fertilizer Institute. Moody holds a bachelor's degree in agricultural engineering and master's degree in biosystems engineering from the University of Tennessee-Knoxville. She is a member of the American Society of Agricultural and Biological Engineers (ASABE).

## **WORKING TEAM - 2**

### **Develop Circular Metrics, Models, Methods, and Standards**



**Ziynet Boz, Chair** - Email: [ziynetboz@ufl.edu](mailto:ziynetboz@ufl.edu)

Assistant Professor in the department of agricultural and biological engineering, University of Florida. Her current research addresses food loss and waste mitigation strategies and solutions at various value chain members (E.g., retail and consumer) through processing and packaging, valorization of waste into bioproducts, optimization, and modeling to improve sustainability and shelf-life of food systems, and the assessment of environmental sustainability through Life Cycle Assessment. She is a member of the American Society of Agricultural and Biological Engineers (ASABE), Institute of Food Technologists (IFT), and Society of Food Engineering (SoFE).



**Jesse Daystar, Chair-Elect** - Email: [JDaystar@cottoninc.com](mailto:JDaystar@cottoninc.com)

Vice President and Chief Sustainability Officer in Cotton Incorporated. Prior to joining the Company, he was the Assistant Director at the Center for Sustainability at Duke University, where he collaborated with Cotton Inc. on a wide range of research projects spanning many of the Company's divisions. He has established himself as a leader in cellulosic fiber sustainability, and led research and consulting in aspects of product sustainability, biomaterials, biochemicals, and bioenergy. His research has produced numerous publications, sustainability and chemical and engineering tools; and certifications for clients including the USDA and the U.S. Department of Energy.



**Isaya Kisseka, Vice-Chair** - Email: [ikisekka@ucdavis.edu](mailto:ikisekka@ucdavis.edu)

Professor in the departments of biological and agricultural engineering, and land, air and water resources at the University of California – Davis. He also serves as the director of the U Davis Agricultural Water Center of Excellence. His research focuses on developing management strategies and technologies to help farmers optimize productivity and net profitability under limited water while minimizing negative impacts on the environment. Current projects include evaluation of precision irrigation systems in almonds and alfalfa production, development of integrated soil and plant water status sensing systems to guide irrigation scheduling, development of simulation-optimization models for irrigation, fertigation and salinity management for various crops. He is a member of the American Society of Agricultural and Biological Engineers (ASABE).



**Charles Parrish, Past-Chair** - Email: [charles@foodshuttle.org](mailto:charles@foodshuttle.org)

Vice President of Agriculture in the Inter-Faith Food Shuttle. The Food Shuttle recovers and distributes over 9 million pounds of food per year, and teaches skills for self-sufficiency including culinary job skills, shopping and cooking healthy on a budget, and how to grow food. Charles is a biosystems engineer and regenerative systems designer who applies ecological principles, processes, and patterns to cultivate resilient community food systems. Charles unifies over a decade of experience in biological research, development, and production with a portfolio of design+build projects in permaculture and controlled environment systems toward consulting with community partners, municipalities, and clients to further the sustainability and circularity of community and planetary life support systems.

## **WORKING TEAM - 3**

### **Organize meetings, conferences and webinars**



**Gal Hochman, Chair** - Email: [BoardChair@cfare.org](mailto:BoardChair@cfare.org)

Professor of agricultural, food, and resource economics at Rutgers University. He dissertation research focused on international trade agreements and crony capitalism and his work at the University of Berkley focused on energy and agricultural biotechnology. Hi current research focus includes issues related to the development, energy, the environment, technology, and trade. He is keenly engaged in understanding the importance of policy in facilitating the transition to sustainable and resilient supply chains and an improved understanding of aquaculture technologies and their role in future food supply chains. He is currently the Chair of Council on Agricultural Food & Resource Economics Board. He is a member of the Agricultural and Applied Economics Association (AAEA).



**Alicia Modenbach, Chair-Elect** - Email: [alicia.modenbach@uky.edu](mailto:alicia.modenbach@uky.edu)

Lecturer and Student Services Coordinator in the department of biosystems and agricultural engineering at the University of Kentucky. She works wit students to ensure that they make knowledgeable academic and career decisions. She develops teaching innovative course curricula and programs that provide transformative experiences for students. She is a member of the American Society of Agricultural and Biological Engineers (ASABE).



**Anita Thompson, Vice-Chair** - Email: [amthompson2@wisc.edu](mailto:amthompson2@wisc.edu)

Professor and Chair of the biological systems engineering department and chair of Nelson Institute's Water Resources Management Program. Her fields of interests include: hydrological implication of land use change, urban hydrology and stormwater management, water quality impacts on biofuel crop production, cold region hydrology, hydrological modeling, sediment, nutrient and pathogen transport, and plyacrylamides and biosolids for fertilizer and erosion management. She is member of the American Society of Agricultural and Biological Engineers (ASABE).



**Mary Leigh Wolfe, Past-Chair** - Email: [mlwolfe@vt.edu](mailto:mlwolfe@vt.edu)

Professor *Emerita* of biological systems engineering at Virginia Tech and former president and Fellow of the American Society of Agricultural and Biological Engineers (ASABE). Her research areas include nonpoint source pollution control and modeling; and decision support for watershed management.



## **WORKING TEAM - 4**

### **Publicize and Promote Circular Bioeconomy Systems**



**K. C. Ting, Chair** - Email: [kcting@illinois.edu](mailto:kcting@illinois.edu)

Professor and Head emeritus of Department of Agricultural and Biological engineering, University of Illinois at Urbana-Champaign. He served as Vice Dean, International Campus, Zhejiang University during 2017-2020. He has pioneered holistic automation and systems analysis approaches to developing intelligent driven and empowered agricultural systems (IDEAS) including controlled environment agriculture and biomass for bioenergy. He has received awards from ASABE and his alma maters. He is Fellows of ASABE and ASME. Email: [kcting@illinois.edu](mailto:kcting@illinois.edu)



**Nitin Nitin, Chair-Elect** - Email: [nnitin@ucdavis.edu](mailto:nnitin@ucdavis.edu)

Professor and Vice-Chair of food science and technology in the department of biological and agricultural engineering at the University of California – Davis. He is interested in using a combination of interdisciplinary approaches encompassing biomolecular engineering, mathematical modeling, material science and molecular imaging to study food safety and food for health initiatives and molecular imaging technologies from a single cell level to a whole-body imaging to enable early-stage detection of diseases and qualification of molecular processes for understanding of patho-physiology. He is a member of the Institute of Food Technologists (IFT) and American Oil Chemist Society (AOCS).



**Sudhagar Mani, Vice-Chair** - Email: [smani@uga.edu](mailto:smani@uga.edu)

Professor and SEC University Faculty Scholar of biochemical engineering at the University of Georgia. His areas of expertise includes biological and chemical process modeling, simulation & optimization, sustainable biomass feedstock supply logistics system, novel biomass densification, torrefaction and thermal conversion technologies, techno-economic analysis (TEA) and Life Cycle Assessment (LCA), and novel routes to produce nano-size cellulose, chemicals & biocomposites. He is a Fellow of the American Society of Agricultural and Biological Engineers (ASABE).



**Gayle C. Baker, Past-Chair** - Email: [gcbaker@mstutz.com](mailto:gcbaker@mstutz.com)

Agricultural Service Engineer, Maurer-Stutz, Inc., Peoria, IL. Her goal is to help the agricultural industry by providing technical advice, working in a team environment to produce high-quality work that helps my clients with innovative solutions to use their resources effectively while accomplishing their operational goals. She is an active leader in the Young Professions Community (YPC) of the American Society of Agricultural and Biological Engineers (ASABE) and serves as a member of ASABE Board of Trustees.