

		ASABE SPECIAL INTEREST APPLIED SCIENCE & ENGINEERING (ASE) EDUCATION, OUTREACH & PROFESSIONAL DEVELOPMENT (EOPD)	ENERGY SYSTEMS (ES) ERGONOMICS, SAFETY & HEALTH (ESH) INTERNATIONAL (E-2050) CIRCULAR BIOECONOMY SYSTEMS INSTITUTE (CBSI)	INFORMATION TECHNOLOGY, SENSORS & CONTROL SYSTEMS (ITSC)	MACHINERY SYSTEMS (MS)	NATURAL RESOURCES & ENVIRONMENTAL SYSTEMS (NRES)	PLANT, ANIMAL AND FACILITY SYSTEMS (PAFS)	PROCESSING SYSTEMS (PRS)	
MONDAY, JULY 14	9:30AM to 12 NOON	101 ASE-Biomass Preprocessing and Logistics for Biofuels and Bioproducts 104 EOPD-Engineering Ethics across Cultures-RAP	102 CBSI-Advancing Circular Bioeconomy Systems (CBS): Opportunities and Challenges-HYBRID 103 E-2050-China Exchange & AOCABFE Business Meeting-PANEL 105 ES-Advances in Biomass Preprocessing and Pretreatment 106 ES-Current Achievements and New R&D Trends in Renewable Energy Resources and Technologies-GUEST SPEAKERS 107 ES-Energy Systems POSTER SESSION	108 Advanced Machine Learning-I 109 Advanced Machine Vision Systems for Agricultural Applications (Peer-review session) 110 Connectivity, Cloud Computing, and Internet of Things in Agriculture and Natural Resources-LIGHTNING PANEL 111 ITSC-Information Technology, Sensors & Control Systems POSTER SESSION A 112 Spectroscopic Sensing and Imaging for Agriculture and Food Systems	113 Advances in Cotton Engineering I 114 Advances in Seeding, Tillage, and Crop Input Placement 115 Innovations in Precision Agriculture and Smart Farming 116 Unmanned (Aerial and Ground) Applications for Crop Protection and Fertilizer Products	117 NRES Distinguished Lecture Series 12:00PM - 1:00PM 122 NRES Community Update and Orientation	118 Agri-Industrial Facility Design and Operation 119 Animal Response to Environment	120 Emerging Techniques for Measuring Properties of Biological Materials 121 Grain Postharvest Education - Challenges and Opportunities-GUEST SPEAKERS	9:30 AM to 12 NOON
	2:30PM to 5:00 PM	123 ASABE-Exploring Safety in the Era of Autonomous Agriculture-HYBRID 124 EOPD-Equipping Students for Capstone through Labs and Experiential Learning	125 ES-Value-Added Chemicals Products and Materials towards Circular Bioeconomy 126 ESH-Advances in Farm Safety: Surveillance, Interventions, and Assistive Technologies	127 AI-Driven Tools and Technologies for High Throughput Phenotyping 128 Analytical, Computational and Instrumentation Advances for Biosensing 129 Machine Vision for Data-Driven Crop Management-LIGHTNING PANEL 130 Mechatronics and Actuation in Agricultural Robots	131 Precision Applications of Crop Protection and Fertilizer Products 132 Robotics and Mechanization for Specialty Crops	133 Advances in Agrohydrological Sustainability through Modeling: Regenerative Agriculture 134 Advances in Micro-Irrigation and Sprinkler Irrigation Systems 135 Erosion Control and Sediment Transport Research 136 Green Infrastructure-GUEST SPEAKERS 137 Innovations and Insights in Hydrology: Bridging Theory, Application, and Emerging Trends 138 Open-Source "pyao56" Evapotranspiration and Water Balance Tool for Water Management 139 Role of Biochar in Improving Soil and Water Quality in Agricultural Systems 5:00PM - 7:00PM 143 NRES-Advances in Environmental Systems POSTER SESSION	140 Food and Medicinal Plant Production in Indoor Environments 141 Precision (SMART) Animal Management-LIGHTNING SESSION 142 Sustainability and Biosecurity Management in Livestock and Poultry Facilities	2:30 PM to 5:00 PM	
TUESDAY, JULY 15	9:30 AM to 12 NOON	201 ASE-Forest Soil, Water, and Air Ecosystems 203 EOPD-Innovation and Integration in Education and Outreach-LIGHTNING PANEL	202 CBSI-Enabling Technologies in Creating Circular Bioeconomy Systems 204 ES-Thermochemical and Catalytic Conversion of Biomass to Biofuels and Chemicals 205 ESH-Agricultural Machinery, Robotics, and Technology: New Risks & Safety Opportunities	206 3D Machine Vision for Sensing and Automation-LIGHTNING PANEL 207 Advanced Machine Learning-II-LIGHTNING PANEL 208 Biosensors and Bioinstrumentation for One Health 209 Digital Twins, DEM, and CFD Applications in Agriculture-LIGHTNING PANEL 210 From Ideas to Commercialization-PANEL 211 ITSC-Information Technology, Sensors & Control Systems POSTER SESSION B	212 Advances in Cotton Engineering II 213 Application Technology Innovations for Crop Protection Product and Fertilizer 214 Machinery Systems and Task Optimization Through Data Analysis	215 Advances in Agrohydrological Sustainability through Modeling: Tools 216 Drainage Design, Monitoring, and Modeling 217 Extension: Empowering our Stakeholders through New Technologies and Machine Learning Techniques 218 Nature-Based Solutions: Innovations in Research and Application-HYBRID 219 Nutrient Transport and Cycling: Measurement and Modeling 220 Ontario Perspective on Sustainable Manure Management-GUEST SPEAKERS 221 Water Management and Soil Health under Water Scarcity and Extreme Events	222 PAFS-Plant, Animal, & Facility Systems POSTER SESSION	223 Physical and Chemical Properties of Food, Agricultural and Biological Materials I 224 Physical Properties and Modeling Related to Crop and Feed Drying, Handling, and Storage	9:30 AM to 12 NOON
	2:30 PM to 5:00 PM	225 ASE-Conversion and Applications of Wood-Derived Materials for Circular Biosystems 227 EOPD-Identifying Common Attributes of an Agricultural and Biological Engineering Graduate-RAP	226 E-2050-Technology Trends and Career Opportunities in the U.S. and Korea-HYBRID 228 ES-Clean Energy and Agrivoltics 229 ESH-Ergonomics, Safety, & Health POSTER SESSION	230 Generative AI and Large Multimodal model for Agriculture & Natural Resources-LIGHTNING PANEL 231 Hyperspectral Imaging: Advances in Technologies, Analytics, and Applications-LIGHTNING PANEL 232 Machine Vision Applications in Agriculture and Food Processing-LIGHTNING PANEL 233 Robotics and AI-Enabled Robotics for Production Agriculture-LIGHTNING PANEL	234 Advances in Soil-Plant-Machine Dynamics and Systems Simulation 235 Machinery Systems for Crop Production 236 MS-Machinery Systems POSTER SESSION	237 Advances in Agrohydrological Sustainability through Modeling: Irrigation 238 Advances in Irrigation Management: Deficit Irrigation and Nutrient Management 239 Extreme Event Hydrologic and Water Quality Modeling 240 Innovations in Nutrient and Energy Recovery from Manure and Wastewater Systems-LIGHTNING PANEL 241 Urban Water Challenges: From Irrigation to Water Quality Management 242 Water Resources in Circular Bioeconomy Systems-HYBRID 4:30PM - 6:30PM 247 NRES-Advances in Natural Resources POSTER SESSION	243 Mitigation of Air Pollution from Agricultural Facilities 244 Solutions for more Sustainable Controlled Environment Agriculture Systems	245 Drying, Handling, and Storage of Grain Crops 246 Physical and Chemical Properties of Food, Agricultural and Biological Materials II	2:30 PM to 5:00 PM
WEDNESDAY, JULY 16	7:30 AM to 10:00 AM	301 ASE-Sustainability in Circular and Carbon-Negative Biosystems 302 EOPD-Education, Outreach and Professional Development POSTER SESSION	303 ES-Techno-Economic and Life Cycle Assessment of Biomass Conversion and Agricultural Systems	304 Machine Vision for Precision Animals and Field Robotics-LIGHTNING PANEL 305 Simulation-aided Agricultural Design and Optimization-LIGHTNING PANEL 306 Spectroscopic Sensing and Imaging for Quality Assessment in Agricultural Commodities-LIGHTNING PANEL	307 AI in Field Operations and Smart Farming 308 UAS Applications in Precision Agriculture, Natural Resources, and Vector Control	309 Advances in Irrigation Management: Irrigation Systems and Sensors 310 Agricultural Conservation Practices: Nutrient Control, Crop Rotation, and Soil Sustainability 311 AI Data-Driven and Remote Sensing Approaches in Irrigation Management-1 312 Emerging Contaminants, Pathogens, and Antibiotics Resistance 313 Innovations in Hydrological Modeling and Water Resource Management 314 Integrating Hydrologic Models and Life Cycle Assessment Enhancing Carbon Emission Estimation in Environmental Research-GUEST SPEAKERS	315 Measurement and Modeling of Air Emissions from Agricultural Production Systems	316 Management of Food, Organic Wastes, and Byproducts for Improving Circularity I 317 PRS-Processing Systems POSTER SESSION	7:30 AM to 10:00 AM
	10:15 AM to 12:15 PM	318 ASE-Applied Science and Engineering POSTER SESSION	319 CBSI-Circular Bioeconomy Systems Research, Education, and Outreach-POSTER SESSION 320 ES-Anaerobic Digestion for Clean Power and Co-products Production 321 ES-Biomass Feedstock Supply System and Biorefinery	322 Imaging Technologies for High Throughput Phenotyping-LIGHTNING PANEL 323 Unmanned Ground and Aerial Robots for Agricultural Applications-LIGHTNING PANEL	324 Machine Electrification and Automation-GUEST SPEAKERS 325 Machinery Systems and Task Optimization Through System Analysis	326 Advancing Climate-Resilient Agroecosystems and Nutrient Management Strategies 327 Agricultural Conservation Practices: Sediment and Nutrient Loss Reduction 328 AI Data-Driven and Remote Sensing Approaches in Irrigation Management-2 329 Conservation Drainage Practices – Current and Future Innovations 330 Ecological Engineering and Harmful Algal Blooms 331 Modeling Ecosystem Evapotranspiration in Multiple Land Uses and Scales-HYBRID 332 Winter Hydrology and Water Quality Challenges in the Great Lakes Region	333 R.S. Gates Memorial Lecture Series	334 Biochemical Conversion and Bioprocess Modeling Management of Food, Organic Wastes, and Byproducts for Improving Circularity II 335	10:15 AM to 12:15 PM