

MONDAY, JULY 10

	POWER & MACHINERY (100s)	SOIL & WATER (200s)	INFORMATION & ELECTRICAL TECHNOLOGIES (300s)	STRUCTURES & ENVIRONMENT (400s)	ERGONOMICS, SAFETY & HEALTH (500s)	FOOD & PROCESS ENGINEERING (600s)	BIOLOGICAL ENGINEERING (700s)	EDUCATION, INTERNATIONAL, & OTHER AREAS (800s)	MAXIMIZINGASABE'S SERVICES EXHIBIT HALL MAIN STAGE
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KEYNOTE SPEAKER - GENERAL SESSION – 8:00AM-9:30AM

9:30 AM to 12 NOON	100	(PM-2b) Quantitative Methods in Pesticide Application (PM-23/6)	105	SOIL & WATER DIVISION POSTERSESSION	107	(IET-1) Application of Numerical Methods in Food Process Engineering (IET-217, FPE-703)	110	(SE-1) Bulk Solids Storage (SE-20)	115	(ESH-4) Technologies for Farmers and Ranchers with Disabilities (ESH-04/02)	116	(FPE-2) Physical Properties of Agricultural Products in Relation to Processing (FPE-701)	120	(BE-10) Challenges in Lignocellulosic Conversion (BE-28, FPE-707, FPE-709)	122	(ED-1a) Innovations in Education - Part 1 (ED-1)	9:30 AM to 12 NOON
	101	(PM-6) Biomass Harvest, Storage, and Processing Considerations for Feedstock or Feed (PM-23/7/2)	106	Computer Models Used in Soil and Water Applications (SW-25) INVITED	108	(IET-14) Machine Vision for Precision Agriculture (IET-312, PM-54)	111	(SE-5) Environmental Impact on Animal Well Being (SE-301, SE-413)	117	(FPE-6) Rice Storage and Processing (FPE-702)	121	(BE-2) Application of Ecological Engineering (BE-22)	123	(O-6a) Soil and Water Protection in Forest Operations - Part 1 (T-12)	124	(O-3) Approaches for Introducing Ethics Education into Undergraduate and Graduate Curricula (ED-412)	
	102	(PM-7b) Advances in Cotton Engineering (PM-23/7/3)			109	(IET-20a) Hyperspectral and Multispectral Imaging - Part 1 (IET-348, IET-312)	112	(SE-7) Controlled Environmental Plant Production Systems (SE-303, ASHRAETC2.2, SE-406)	118	(FPE-10) Food Safety Engineering (FPE-703)							
	103	(PM-10) Conservation Tillage and Erosion Control System (PM-42, SW-225)					113	(SE-10) Technologies for Characterizing and Mitigating Emissions from Fugitive Sources (SE-305)	119	(FPE-18) Biofuels Development Research 1 (FPE-709)							
	104	(PM-25) Performance and Accuracy of GPS-based Systems (PM-54, PM-58)					114	(SE-15) Dairy Housing and Management (SE-403)									

2:30 PM to 5:00 PM	125	(PM-5) Influence of Harvest Variables on Forage Quality (PM-23/7/2)	129	(SW-2) Watershed Modeling for Water Resource Assessment and BMP Evaluation (In memory of Dr. John Parsons Dec 11, 1951-Oct 3, 2005) (SW-21)	131	(IET-2) Modeling of Crop and Farm Systems (IET-210, BE-26)	134	STRUCTURES & ENVIRONMENT DIVISION POSTERSESSION	135	(ESH-2) University Curricula for Agricultural Safety and Health (ESH-04, P-206, P-205, P-203)	136	(FPE-5) Drying, Storage and Handling of Grains and Other Crops (FPE-702)	140	(BE-3) Innovative Technologies for Organic Farming (BE-22)	142	(ED-1b) Innovations in Education - Part 2 (ED-1)	2:30 PM to 5:00 PM
	126	(PM-14) Soil Sensors for Precision Agriculture (PM-45, PM-54, IET-353)	130	(SW-3) Use of Modeling in Irrigation Management (SW-24)	132	(IET-15) Machine Vision for Autonomous Vehicles (IET-312, PM-58)		Agricultural Waste Management & Land Application of Waste to Meet Regulatory and Environmental Concerns - Mini Symposium	137	(FPE-12) Microwave and Radio Frequency Heating in Agricultural and Food Processing (FPE-703)	141	(BE-5) Biosensors (BE-23)	143	Opportunities in Non-Agricultural Rural Economic Development for ASABE Members (INVITED)	144	(O-6b) Soil and Water Protection in Forest Operations - Part 2 (T-12)	
	127	(PM-18) Spectral Sensing for Precision Agriculture (PM-54, IET-348)			133	(IET-20b) Hyperspectral and Multispectral Imaging - Part 2 (IET-348, IET-312)		Ventilation and Indoor Air Quality in Animal Buildings (SE-302)	138	(FPE-14) Sensing and Automation in Food Processing (FPE-703)							
	128	(PM-21) Variable-Rate Technology for Precision Agriculture (PM-54, PM-23/6)							139	(FPE-17) Biofuels Development Research 2 (FPE-709)							
	145	New Products (INVITED)							146	Post Harvest Tracking of Fruits and Vegetables using RFID Technology (FPE-712) INVITED							

9:30 AM to 12 NOON	200	(PM-7) Advances in Cotton Engineering (PM-23/7/3)	204	(SW-4) Innovations in Hydrological Modeling (SW-21)	210	INFORMATION & ELECTRONIC TECHNOLOGIES DIVISION POSTER SESSION (IET-21)	211	(SE-3) Sustainable Building Technology (SE-20)	216	(ESH-1) Advances in Safety Technology (ESH-04)	217	(FPE-4) Physical Properties of Biobased Products (FPE-701, FPE-703, FPE-709, BE-28)	221	(BE-4) Ecosystem Services: TMDLs, Habitats and Beyond (BE-22, SW-265)	224	(ED-1c) Innovations in Education - Part 3 (ED-1)	9:30 AM to 12 NOON
	201	(PM-11) Management Strategies for Machinery Guidance (PM-43, IET-318)	205	(SW-5) Emerging Issues in Water Quality (SW-21)			212	(SE-19) Controlling the Environment in the Greenhouse (SE-406, SE-303)			218	(FPE-7) Postharvest Organic or Non-Chemical Quality Control of Crops and Feeds (FPE-702)	222	(BE-7) Biological and Ecological Modeling (BE-26, IET-210)	226	(O-1) Extension Methods for Environmental Quality (P-208)	
	202	(PM-12) Advances in Soil Dynamics (PM-45)	206	(SW-6) Erosion Mechanics and Prediction (SW-22)			213	(SE-9a) Air Quality Modeling - Part 1 (SE-305)			219	(FPE-9) Emerging Technologies in Food Processing (FPE-703)	223	Biological Engineering Standards Roundtable Discussion			
	203	(PM-20) Sensors and Controls for Precision Agriculture (PM-54, IET-353)	207	(SW-7) Non-Point Source Pollution Control Structures (SW-22)			214	(SE-21a) Agricultural Waste Management - Mini Symposium (SE-412, SW-263, FPE-707) (8:00am-12:00pm)			220	Biorefineries: Barriers to Development (FPE-709, BE-28) INVITED					
			208	(SW-8) Precision Irrigation Technologies (SW-24)			215	Case Studies in Ventilation Systems (SE-302) INVITED									

ASABE BUSINESS MEETING – 12:30PM-2:30PM

2:30 PM to 5:00 PM	227	POWER & MACHINERY DIVISION POSTERSESSION	228	(SW-10) Forest and Wetland Hydrology and Ecosystems (SW-21)	234	(IET-4) Advances in Numerical Methods (IET-217)	236	(SE-4) Agri-Industrial Facility Design and Operation (SE-20)	241	(ESH-) Safety and Health and Emerging Technologies for Agriculture (ESH-04, PM-58, PM-54)	242	FOOD & PROCESS ENGINEERING INSTITUTE DIVISION POSTERSESSION	243	BIOLOGICAL ENGINEERING DIVISION POSTERSESSION	244	(ED-2) K-12 Engineering Instruction Development (Education)	2:30 PM to 5:00 PM
		Recent Advances in Pesticide Application Technology	229	(SW-11) Soil Erosion Research (SW-22)	235	(IET-16) Sensors for Automation and Robotics (IET-318)	237	(SE-18) Greenhouse Technology Applications (SE-406, SE-303)					245	(O-2) Successful Multi-State Extension Programs (P-208)	250	Renewable Energy & the Bio Economy - Panel Discussion	
			230	(SW-12) Fate and Transport of Pathogens (SW-22)			238	(SE-9b) Air Quality Modeling - Part 2 (SE-305)					246	(O-7) Biomass Fuel Reduction and Utilization (T-12)			
			231	(SW-13) Estimating Crop Water Use (SW-24)			239	(SE-21b) Agricultural Waste Management - Mini Symposium (SE-412, SW-263, FPE-707) (1:00pm-5:00pm)					247	China Exchange: Vision, Philosophy and Roadmaps (AOCABFE) (INVITED)			
			232	(SW-14) Stream Corridor Restoration (SW-25)			240	(SE-16) Recent Trends and Innovations in Swine Housing (SE-404)					248	(Intl-1) Development and Transfer of Sustainable Technologies for Developing Countries (Intl-601)			

9:30 AM to 12 NOON	300	(PM-3) Pesticide Application Technology for Tree and Bush Crops (PM-23/6)	305	(SW-16) Hydrology and Water Quality (SW-21)	311	(IET-10) Information Systems for Agricultural and Biological Systems (IET-254)	314	(SE-12a) Technologies for Characterizing and Mitigating Emissions from Stationary Sources - Part 1 (SE-305)			319	(FPE-3) Nondestructive Quality Measurements for Fruit and Vegetable (FPE-701)	323	(BE-6) Innovative Remediation Technologies (BE-24, SE-412, SW-26, SW-262)	330	On-Line Mentoring Program Overview	9:30 AM to 12 NOON
	301	(PM-15) Innovations in Traction and Tractor Design (PM-46, PM-45, P-126)	306	(SW-17) Characterizing Nutrient Transport in the Environment (SW-21)	312	(IET-12a) Bioimaging and Machine Vision for Food Safety, Quality and Processing - Part 1 (IET-312)	315	(SE-11) Particulate Matter Emission Factors and Abatement Strategies (SE-305)			320	(FPE-11) Value-Added Food Processing (FPE-703)	324	(BE-11) Environmental Bioconversion Processes (BE-28, FPE-707, FPE-709, FPE-703)	331	How to Get the Most out of Your Member Benefits	
	302	(PM-16) Fruit and Vegetable Engineering (PM-48, FPE-712)	307	(SW-18) Stormwater Runoff and Sediment Control (SW-22)			316	(SE-13a) Dairy Manure Management - Part 1 (SE-403, SE-412)			321	(FPE-20) Biodiesel Issues (FPE-709)			332	Technical Session	
	303	(PM-23) GIS and Spatial Technologies for Management Decisions (PM-54, PM-43)	308	(SW-19) Modeling and Evaluation of Conservation Practices (SW-22)	313	(IET-18) Bionanotechnology in Agriculture, Food and Healthcare (IET-318, BE-21, BE-23, FPE-703) INVITED	317	(SE-23) Biomass for Heat and Power Generation (SE-414, T-11, FPE-709)			322	(FPE-21) Biomass Properties (FPE-709, FPE-701)			335	(SW-16) Hydrology and Water Quality (SW-21)	
	304	(PM-28) Automated Guidance of Agricultural Vehicles (PM-58, IET-318, PM-54)	309	(SW-20) Drainage and Water Quality (SW-23)			318	Wind Power Development Principles (SE-414) INVITED									

ASABE AWARDS LUNCHEON – 12:00PM-2:30PM

2:30 PM to 5:00 PM	325	(PM-1) Pesticide Application Influences on Improving Soybean Health (PM)	330	(SW-22) Effects of Climate Change, Land Use, and Disturbance on Water Quality and Quantity (SW-21)	335	Electromagnetic Sensing (IET-348)	337	(SE-12b) Technologies for Characterizing and Mitigating Emissions from Stationary Sources - Part 2 (SE-305)			339	(FPE-16) Advances in Food and Organic Waste Management and Utilization (FPE-707, BE-28, FPE-709, SE-412)	343	(BE-9) Bioprocessing for Value-Added Products (BE-28)			2:30 PM to 5:00 PM
	326	(PM-17) Remote Sensing for Precision Agriculture (PM-54)	331	(SW-23) Modeling and Uncertainty in TMDLs (SW-21)	336	(IET-12b) Bioimaging and Machine Vision for Food Safety, Quality and Processing - Part 2 (IET-312)	338	(SE-13b) Dairy Manure Management - Part 2 (SE-403, SE-412)			340	(FPE-22) Biomass Feedstock Engineering Issues (FPE-709, PM-23/7/2)					
	327	(PM-13) Military and Industrial Applications of Soil Dynamics (PM-45)	332	(SW-24) Urban Stormwater BMPs (SW-22)							341	(FPE-23) Quality Detection and Postharvest Handling of Fruits and Vegetables (FPE-712)					
	328	(PM-22) Development and Performance of Yield Monitors (PM-54, PM-23/7/1)	333	(SW-25) Water Table Management (Controlled Drainage/Subirrigation) for Water Quality (SW-23)							342	Food Engineering Education: Setting the Pace for the Future (FPE-80) INVITED					
	329	(PM-8) New Developments in Cultural Practices (PM-42)	334	(SW-26) Irrigating with Limited and Reused Water Supplies (SW-24)													

TUESDAY, JULY 11

WEDNESDAY, JULY 12