Schedule by Section/Division

Cosponsored sessions are identified in <i>italic</i> .			
Sess	SION NO./TITLE	DATE & TIME	LOCATION
Key	note/Plenary Sessions		
28	unday ASA, CSSA and SSSA Opening Keynote	6:00 PM - 7:00 PM	PCC, Ballroom 120 B-D
31	fonday SSSA Breakfast, Awards, and Plenary (Brady Lectureship)	7:00 AM - 9:00 AM	Sheraton, Valley of the Sun ABC
	uesday ASA Breakfast, Awards, and Plenary (York Lectureship)	7:00 AM - 9:10 AM	Sheraton, Valley of the Sun ABC
	Vednesday CSSA Breakfast, Awards, and Plenary (Klepper Lectureship)	7:00 AM - 9:00 AM	Sheraton, Valley of the Sun ABC
481	ASA, CSSA and SSSA Closing Keynote	5:00 PM - 6:00 PM	PCC, Ballroom 120 B-D
ASA	A, CSSA and SSSA Special Programs		
S	unday		
16 N	SymposiumTechniques for Jumpstarting the Restoration of Desertified Ag and Grasslands Soils fonday	1:30 PM - 5:15 PM	РСС, 228 В
58	Symposium100th Anniversary of the Langmuir Equation, 1916-2016	9:20 AM - 12:00 PM	PCC, 130
106	Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security	1:30 PM - 3:30 PM	PCC, 232 B
131	SymposiumHarnessing Senior and Emeritus Members to Advance Agronomy, Crops and Soils	3:00 PM - 4:30 PM	PCC, 128 A
150 T	Developing Research and Extension Skills of Students in Integrated Agronomic Systems uesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Gateway Scholars Program	8:00 AM - 4:00 PM	PCC, 128 A
230 254	ACS528 Diversity Student Poster Competition Science Policy Graduate Student Luncheon	9:30 AM - 12:00 PM 12:00 PM - 1:30 PM	PCC, Exhibit Hall CDE Sheraton, Valley of the Sun DE
258 274	SymposiumAdapting Cropping Systems to Drought and Water Scarcity SymposiumManufactured, Blended, and Engineered Soils for	1:00 PM - 4:50 PM	PCC, 124 B
284 354	Urban Applications SymposiumPulse Crops: Partners in Resilience Election Night Watch Party	1:30 PM - 3:15 PM 1:30 PM - 4:00 PM 6:00 PM - 9:00 PM	PCC, 124 A PCC, 221 B PCC, Ballroom 120 B-D
	Vednesday SymposiumHumic Products: Optimizing Agroecosytem Balance	8:00 AM - 12:00 PM	PCC, 230
388	SymposiumTransforming Smallholder Agronomy in Africa	9:10 AM - 10:55 AM	PCC, 226 C
Stuc	lents of Agronomy, Soils and Environmental Sciences (SAS	ES)	
	riday		
1	SAŠES Registration	5:00 PM - 9:00 PM	PCC, Reg Ctr, 3rd Level
2	SASES National Officer Meeting	7:00 PM - 7:55 PM	PCC, Reg Ctr, 3rd Level
3 S	SASES Committee Member Meeting aturday	8:00 PM - 9:00 PM	PCC, Reg Ctr, 3rd Level
4	SASES Registration II	6:00 AM - 7:30 AM	PCC, Reg Ctr, 3rd Level
5	SASES Tours	7:30 AM - 6:00 PM	PCC, 3rd St Entrance
7 8	Presidents Trophy Competition SASES Business Meeting I	7:00 PM - 8:30 PM 8:30 PM - 9:30 PM	PCC, 224 AB PCC, 224 AB
9	SASES Dance	10:00 PM - 11:55 PM	Hyatt, Regency Ballroom ABCD
	unday SASES Registration: III	7:30 AM - 9:00 AM	PCC Rog Ctr 2nd Lores
10 11	SASES Registration: III SASES Brunch and Keynote Speaker	9:00 AM - 10:30 AM	PCC, Reg Ctr, 3rd Level Sheraton, Valley of the Sun ABC

	ION NO./TITLE		
12	SASES Business Meeting II	10:30 AM - 11:30 AM	Sheraton, Valley of the Sun ABC
13	Undergraduate Research Contest - Oral II	12:00 PM - 2:20 PM	PCC, 225 A
14	Undergraduate Research Contest - Oral I	12:00 PM - 2:35 PM	PCC, 226 A
19	SASES National Speech Contest Prelims: II	2:30 PM - 4:00 PM	PCC, 225 A
18	SASES National Speech Contest Prelims: I	2:45 PM - 4:00 PM	PCC, 226 A
23			PCC, 228 A
	Undergraduate Professional Development Workshop	3:30 PM - 5:00 PM	PCC, 228 A
27	SASES Club Poster Contest	5:00 PM - 6:00 PM	
	Graduate School Forum	7:00 PM - 9:00 PM	PCC, Exhibit Hall CDE
29	SASES National Speech Contest - Finals	8:00 PM - 9:00 PM	PCC, 224 AB
30	SASES Quiz Bowl	9:00 PM - 11:00 PM	PCC, 224 AB
	Ionday	0.00 434 10.00 434	DCC 000
50	SASES Club Presidents' Round Table	8:30 AM - 10:00 AM	PCC, 230
	Graduate School Forum	9:00 AM - 6:00 PM	PCC, Exhibit Hall CDE
51	Career Path Opportunities for Students, Post-Docs, and Early		
	Career Members	9:30 AM - 11:00 AM	PCC, Ballroom 120D
74	CCA Career Accelerator Round Table	10:00 AM - 12:00 PM	PCC, 229 B
75	Grad School Workshop for Undergrads	10:00 AM - 12:00 PM	PCC, 228 A
87			1 CC, 220 A
	Pop in with the Presidents	12:00 PM - 1:30 PM	DCC 000
86	SASES Advisor Luncheon	12:00 PM - 1:00 PM	PCC, 230
91	Crops Judging Contest Showcase	1:00 PM - 3:00 PM	PCC, Ballroom 120D
37	Career Fair	3:00 PM - 6:00 PM	PCC, Exhibit Hall CDE Career Center
133	Undergraduate Research Contest - Poster Section I	3:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
135	Undergraduate Research Contest - Poster Section II	3:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
132	Undergraduate Research Contest - Poster Section III	3:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
134	Undergraduate Research Contest - Poster Section IV	3:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
36	Undergraduate Research Contest - Poster Section V	3:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
188	Delegate Training for SASES Clubs	5:45 PM - 6:30 PM	Sheraton, Valley of the
190	SASES Dinner, Awards, and Elections	6:30 PM - 9:00 PM	Sun ABC Sheraton, Valley of the Sun ABC
191	SASES Social	9:30 PM - 11:55 PM	Sheraton, Encanto AB
Т	uesday		
	Graduate School Forum	9:00 AM - 6:00 PM	PCC, Exhibit Hall CDE
V	/ednesday		
	Graduate School Forum	9:00 AM - 4:30 PM	PCC, Exhibit Hall CDE
		7.007 HVI - 1 .001 HVI	TCC, Exhibit Hull CDE
	238 Graduate Student Committee		
	aturday		
6	Graduate Student Leadership Conference	10:00 AM - 5:00 PM	PCC, 229 AB
S	unday		
25	Graduate Student Networking Session - Building Professional		
	Relations	4:00 PM - 6:00 PM	PCC, 229 AB
		4.001101-0.001101	1 CC, 22) AD
	Ionday		
61	Career Path Opportunities for Students, Post-Docs, and		
	Early Career Members	9:30 AM - 11:00 AM	PCC, Ballroom 120D
90	Behavioral Interviewing	1:00 PM - 2:30 PM	PCC, 224 B
137	Career Fair	3:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
		5.50 I IVI 0.00 I IVI	Career Center
	uesday		
	Elevator Speech Contest for Grad Students and Post-Docs	5:30 PM - 6:45 PM	PCC, 121 C
V	<i>V</i> ednesday		·
380	Communicating Your Science for Graduate Students: Messaging		
	for a Greater Impact	8:30 AM - 11:30 AM	PCC, 229 A
128	Think Tank on the Future of Agricultural and Environmental		
	Research: Addressing the Need to Do More with Less	12:00 PM - 1:30 PM	PCC, 224 AB
AC	530 Early Career Members		
N	Ionday		
61 ¹	Career Path Opportunities for Students, Post-Docs, and		
		0.20 ANA 11 00 ANA	DCC Dellas 100D
	Early Career Members	9:30 AM - 11:00 AM	PCC, Ballroom 120D
90	Behavioral Interviewing	1:00 PM - 2:30 PM	PCC, 224 B
92	Interactive Workshop: Writing Manuscripts for Publication	1:00 PM - 3:00 PM	PCC, 229 A
140	Expert panel: ASA/CSSA/SSSA Journals – From Manuscript		
0	Submission to Publishing.	3:15 PM - 4:45 PM	PCC, 229 A
	Submission to rabitility.	0.10 I IVI - T.T. I IVI	$1 CC, 227 \Lambda$

	ION NO./TITLE	DATE & TIME	Locatio
	uesday		
22 55	Negotiation Strategies for Early Career Scientists Tips from the Experts on the Job Application and	9:30 AM - 11:00 AM	PCC, 230
	Interviewing Process Building Active Teaching- and Extension-based Programs	12:30 PM - 2:00 PM 2:00 PM - 4:00 PM	PCC, 230 PCC, 230
	Vednesday Grant Application Navigation and Resources for Expanding Early Career Opportunities	9:00 AM - 11:00 AM	РСС, 229 В
SA	Section: Agronomic Production Systems		
	unday		
	Comet-Farm:Evaluate How Conservation Practices Can Impact the Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	PCC, 227 B
№ 6 7	Ionday Agronomic Production Section, General II Oral	8:00 AM - 3:15 PM	PCC, 126 A
	SymposiumSustainable Intensification: Global Frameworks and Implications for the U.S. ASA Business MeetingAgronomic Production Systems	9:15 AM - 12:00 PM 3:20 PM - 4:20 PM	PCC, 128 A PCC, 126 A
	uesday		100,12011
.37 .58	Agronomic Production Systems Oral SymposiumAdapting Cropping Systems to Drought and	9:55 AM - 11:55 AM	PCC, 127 A
	Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
67 89 91	Poster and 5 Minute RapidAgronomic Production Systems Gypsum Use in Agriculture Poster SymposiumBuilding Resilience to Face Climate Change in China-	1:30 PM - 2:10 PM 2:00 PM - 4:00 PM	PCC, 126 B PCC, Exhibit Hall CD
-	US Collaborative Research	2:00 PM - 5:00 PM	PCC, 226 C
W	5 Minute RapidAgronomic Production Systems Jednesday	2:15 PM - 2:55 PM	РСС, 126 В
63	New Frontiers of Soil and Plant Sciences: Astropedology and	7.55 ANA 12.00 DM	DCC 105 P
53 52	Space Agriculture Agronomic Production Systems, General Poster Agronomic Production Systems, Cropping Systems and	7:55 AM - 12:00 PM 2:30 PM - 4:30 PM	PCC, 125 B PCC, Exhibit Hall CD
	Tillage Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CD
	ptive Nutrient Management Community Ionday		
80	ASA Community Bus. MeetingAdaptive Nutrient Management	10:30 AM - 11:00 AM	PCC, 126 B
	olied Soybean Research Community Ionday		
59 100	Applied Soybean Research Oral (includes student competition)	9:25 AM - 3:15 PM	PCC, 125 A
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
159	ASA Community Business MeetingApplied Soybean Research Applied Soybean Research Poster	3:15 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, 125 A PCC, Exhibit Hall CD
Bio	energy Systems Community Ionday		
9	General Bioenergy Systems Oral	8:25 AM - 3:00 PM	PCC, 125 B
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
52	General Bioenergy Systems Poster Bioenergy Systems Poster Competition	4:00 PM - 6:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CD PCC, Exhibit Hall CD
69	Vednesday SymposiumBiofuel Crop Production without Competing for Food Crops	8:00 AM - 10:55 AM	РСС, 227 В
94	Symposiumthe Prominent Role of Plant Genetic Resources and Genebanks in the Post-Genomic Era	9:30 AM - 11:30 AM	Sheraton, Valley of the
12	ASA Community Business MeetingBioenergy Systems		Sun D
Cot	(Open to Members) ton and Other Fibers Community	11:00 AM - 12:00 PM	РСС, 227 В
	unday		
20	SymposiumEnabling Fiber Productivity Increases through		DCC 221 D
6	Multi-Disciplinary Innovations	3:00 PM - 4:50 PM	PCC, 221 B
:6 N	ASA Community Business MeetingCotton and Other Fibers fonday	4:50 PM - 5:30 PM	PCC, 221 B
28	SymposiumQTL That Matter uesday	2:30 PM - 4:35 PM	PCC, 123
	Cotton and Other Fiber Crops (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD

Session No./Title	DATE & TIME	LOCATION
Crop Irrigation Strategies and Management Community		
Sunday Irrigation and Cropping Systems of Central Arizona Field-Based Phenotying in Maricopa-Sunday	8:00 AM - 2:00 PM 11:00 AM - 4:00 PM	PCC, 3rd St Entrance PCC, 3rd St Entrance
Monday		
153 Crop Irrigation Strategies and Management Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Tuesday		,
 220 Crop Irrigation Strategies and Management Oral (includes student competition) 232 SymposiumPartitioning of Evapotranspiration: 	9:30 AM - 10:50 AM	PCC, 126 B
 222 Symposium-Furthbing of Ecuporanspiration. Instrumentation and Simulation 247 ASA Community Business MeetingCrop Irrigation Strategies 	9:30 AM - 12:15 PM	РСС, 126 А
and Management	11:10 AM - 12:00 PM	PCC, 126 B
258 SymposiumAdapting Cropping Systems to Drought and Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
281 Evapotranspiration Measurements and Modeling Oral (includes student competition) Wednesday	1:30 PM - 3:45 PM	PCC, 126 A
 Wednesday 389 SymposiumSensing for Phenotyping and Management: What Can Remote and Proximal Sensors Tell Us about Physiological Properties of Crops? Field-Based Phenotyping in Maricopa-Wednesday 	9:25 AM - 11:25 AM 12:30 PM - 4:00 PM	Sheraton, Ahwatukee A PCC, 3rd St Entrance
Crop Management Professionals Community		
 Sunday SymposiumEnabling Fiber Productivity Increases through Multi-Disciplinary Innovations 	3:00 PM - 4:50 PM	РСС, 221 В
Monday		,
114 Symposiumso You Think You're an Expert - Consulting As an Expert Witness Tuesday	1:30 PM - 4:00 PM	РСС, 227 С
207 SymposiumCrop Management as related to CCA specialty certification exam prep	8:00 AM - 12:00 PM	PCC, 121 AB
Wednesday 376 SymposiumSustainable Agronomic Practices 416 ASA Community Bus. MeetingCrop Management Professionals	8:00 AM - 5:00 PM 11:30 AM - 12:00 PM	PCC, 121 AB PCC, 231 C
Integrated Pest Management Professionals Community		
Monday		
44 SymposiumIPM Resistance Management as related to CCA specialty certification exam prep Wednesday	8:00 AM - 12:00 PM	PCC, 121 AB
376 SymposiumSustainable Agronomic Practices	8:00 AM - 5:00 PM	PCC, 121 AB
417 ASA Community Business Meeting Integrated Pest Management Professionals	11:30 AM - 12:00 PM	PCC, 231 C
Nutrient Management Professionals Community		
MondayASA Community Bus. MtgNutrient Management Professionals	11:00 AM - 11:30 AM	PCC, 126 B
93 SymposiumNutrient Management as related to		
CCA specialty certification exam prep Tuesday	1:00 PM - 5:00 PM	PCC, 121 AB
225 SymposiumDecision Agriculture: Integrating Precision Tools, Data Science, and Agronomic Knowledge for Improved Decisions	9:30 AM - 11:30 AM	PCC, 126C
271 Manure Management: Maximizing Plant Production and Nutrient Use Efficiency	1:30 PM - 3:05 PM	PCC, 125 A
319 On-Farm Research: Advancing Precision Ag Tools, Data Analysis and Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday 376 SymposiumSustainable Agronomic Practices	8:00 AM - 5:00 PM	PCC, 121 AB
404 On-Farm Research: II. Advancing Precision Ag Tools	10:15 AM - 3:00 PM	PCC, 223
Organic Management Systems Community		
Monday 126 SymposiumSustainability Challenges in Organic Agriculture	2:00 PM - 5:00 PM	PCC, 124 B

Session No./Title	DATE & TIME	Location
Tuesday		
203 General Organic Management Systems Oral I (includes student competition)	8:00 AM - 9:50 AM	PCC, 127 A
318 General Organic Management Systems Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday 105 General Organic Management Systems Oral II		
(includes student competition)	10:25 AM - 12:00 PM	PCC, 231 A
ASA Community Bus. MeetingOrganic Management Systems	1:30 PM - 2:30 PM	PCC, 225 A
Precision Agriculture Systems Community Monday		
81 On-Farm Research: I. Data Analysis & Extension Implications Tuesday	10:40 AM - 12:00 PM	РСС, 127 В
225 SymposiumDecision Agriculture: Integrating Precision Tools, Data Science, & Agronomic Knowledge for Improved Decisions	9:30 AM - 11:30 AM	PCC, 126C
234 SymposiumCrop Modeling and Plant Breeding:	9:45 AM - 11:35 AM	DCC 122 BC
<i>Intersecting Disciplines for a Resilient Agriculture</i> ASA Community Bus. MeetingPrecision Agriculture Systems	9:45 AM - 11:35 AM 11:30 AM - 12:30 PM	PCC, 122 BC PCC, 126C
258 SymposiumAdapting Cropping Systems to Drought & Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
319 On-Farm Research: Advancing Precision Ag Tools, Data Analysis and Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday 404 On-Farm Research: II. Advancing Precision Ag Tools	10:15 AM - 3:00 PM	PCC, 223
Professional Applied Agronomists Community		
Sunday		
<i>Comet-Farm:Evaluate How Conservation Practices Can Impact the</i>		DCC AND D
Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	РСС, 227 В
Monday 114 Symposiumso You Think You're an Expert -		
Consulting As an Expert Witness	1:30 PM - 4:00 PM	PCC, 227 C
ASA Community Bus. MtgProfessional Applied Agronomists	4:10 PM - 4:40 PM	PCC, 126 B
Tuesday258SymposiumAdapting Cropping Systems to Drought & Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
Semi-Arid Dryland Cropping Systems Community		
Monday		
51 SymposiumGlobal Semiarid Cropping Systems Adaptation to		DCC 124 D
Climate Variability 82 ASA Community Business Meeting	8:30 AM - 10:30 AM	PCC, 124 B
Semi-Arid Dryland Cropping Systems	10:45 AM - 11:45 AM	PCC, 124 B
112 Semiarid Dryland Cropping Systems Oral	1:30 PM - 4:00 PM	PCC, 228 A
Tuesday		
320 Semiarid Dryland Cropping Systems Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Sensor-Based Nutrient Management Community		
Monday 33 Sensor Based Nutrient Management		
(includes student competition)	7:45 AM - 10:00 AM	PCC, 126 B
Wednesday		,
103 SymposiumUse of Aerial Imagery for Nutrient Management	10:15 AM - 11:50 AM	PCC, 231 B
427 ASA Community Business Meeting Sensor-Based Nutrient Management	11:50 AM - 12:20 PM	PCC, 231 B
Soil and Water Management Professionals Community Monday		
106 Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security	1:30 PM - 3:30 PM	PCC, 232 B
114 Symposiumso You Think You're an Expert - Consulting As an Expert Witness	1:30 PM - 4:00 PM	PCC, 227 C
Tuesday		
259 SymposiumSoil and Water Management as related to CCA specialty certification exam prep	1:00 PM - 5:00 PM	PCC, 121 AB
258 SymposiumAdapting Cropping Systems to Drought & Water Scarcity	1:00 PM - 4:50 PM	PCC, 121 AB
		,

Session No./Title		DATE & TIME	Locatioi
Wednesday 376 SymposiumSustainable Agronomic Prac	stices	8:00 AM - 5:00 PM	PCC, 121 AB
 ASA Community Business Meeting Soil and Water Management Profes 		11:30 AM - 12:00 PM	PCC, 231 C
Solar Corridor Crop System Comm		1.0011.1 12.0011.1	100, 2010
Wednesday 19 ASA Community Business MeetingS	olar Corridor Crop System	11:30 AM - 12:00 PM	PCC, 227 A
Veedy and Invasive Plant Species (11.0011111 12.001111	100,22,11
Monday	community		
 23 SymposiumPlant-Plant Communicat Novel Control of Invasive Weeds at ASA Community Bus. MtgWeedy an 	nd Yield Resilience	2:00 PM - 3:45 PM 3:35 PM - 3:45 PM	PCC, 126 B PCC, 126 B
ASA Section: Biometry and Statistical	Computing		
Sunday			
Introduction to JMP Software		8:30 AM - 11:30 AM	PCC, 227 A
Utilizing the GAPIT R Package to Facilita	ite Analysis of Diversity Panels		PCC, 228 A
Intro to Multivariate Analysis Advanced Techniques in JMP Software		1:00 PM - 5:00 PM 1:30 PM - 4:30 PM	РСС, 227 В РСС, 227 А
Monday		1.501111-4.501111	1 CC, 227 11
Implementing Genomic Selection in Plant		8:00 AM - 12:00 PM	PCC, 227 A
3 SymposiumMultivariate Analysis in		9:30 AM - 11:35 AM	PCC, 122 A
09 Biometry & Statistical Computing Ora		1:30 PM - 3:35 PM	PCC, 122 A
55 Biometry & Statistical Computing Post Tuesday	ær	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
09 ASA Business MeetingBiometry & St	atistical Computing	4:00 PM - 4:50 PM	PCC, 221 C
Bioinformatics in Crops and Soils (,
Sunday	Jonnanty		
Utilizing the GAPIT R Package to Facilita	ite Analysis of Diversity Panels	9:00 AM - 11:00 AM	PCC, 228 A
Intro to Multivariate Analysis		1:00 PM - 5:00 PM	PCC, 227 B
Monday	C		
7 SymposiumPlant Breeding Post Genome Where Do We Go from Here?	sequence:	8:00 AM - 9:50 AM	PCC, 122 BC
28 SymposiumQTL That Matter		2:30 PM - 4:35 PM	PCC, 123
Tuesday			
79 SymposiumProcessing High-Throug	hput Data		
for Statistical Analysis 10 ASA Community Bus. MtgBioinform	atics in Crops and Soils	1:30 PM - 3:35 PM	PCC, 221 C PCC, 221 C
Wednesday	lattes in crops and sons	4:00 PM - 4:50 PM	1 CC, 221 C
994 <i>Symposiumthe Prominent Role of Plant</i>	Genetic Resources and		
Genebanks in the Post-Genomic Era		9:30 AM - 11:30 AM	Sheraton, Valley of the Sun D
Spatial Statistics Applications Com	munity		
Tuesday			
ASA Community Bus. MeetingSpatia	al Statistics Applications	4:00 PM - 4:50 PM	PCC, 221 C
Statistical Education/Training for R	lesearchers Community	7	
Sunday		0.00 ANA 11.00 ANA	DCC 227 A
Introduction to JMP Software Intro to Multivariate Analysis		8:30 AM - 11:30 AM 1:00 PM - 5:00 PM	PCC, 227 A PCC, 227 B
Advanced Techniques in JMP Software		1:30 PM - 4:30 PM	PCC, 227 A
Monday			/
Implementing Genomic Selection in Plant	Breeding Programs	8:00 AM - 12:00 PM	PCC, 227 A
Tuesday			
ASA Community Business Meeting Statistical Education/Training for R	esearchers	4:00 PM - 4:50 PM	PCC, 221 C
ASA Section: Climatology and Modeli			100,
	пБ		
Sunday	day	11:00 AM - 4:00 PM	PCC, 3rd St Entrance
Field-Bacod Phonotuing in Maricona Sum	лиу	11.00 ANI - 4.00 I IVI	i CC, siù si Entrance
Field-Based Phenotying in Maricopa-Sun Tuesday			
Tuesday	•		
Tuesday 204 Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Ora	1	8:00 AM - 10:00 AM	PCC, 131 A
Tuesday 204 <i>Remote Sensing of Land Surface and</i>	reeding:	8:00 AM - 10:00 AM 9:45 AM - 11:35 AM	PCC, 131 A PCC, 122 BC

6	Cosponsored sessions are re		
SESS 260	ION NO./TITLE Climatology and Modeling Oral	DATE & TIME 1:15 PM - 5:05 PM	PCC, 126C
200 291	SymposiumBuilding Resilience to Face Climate Change in	1.15 1 101 - 5.05 1 101	1 CC, 120C
	China-US Collaborative Research	2:00 PM - 5:00 PM	PCC, 226 C
321	Climatology and Modeling Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
53	ASA Business MeetingClimatology and Modeling	6:00 PM - 7:15 PM	PCC, 126C
	Vednesday SymposiumHonoring the Contributions of Laj Ahuja:		
100	Building Bridges Among Disciplines By Synthesizing and		
	Quantifying Soil and Plant Processes for		
	Whole Systems Modeling	7:30 AM - 10:45 AM	PCC, 227 C
.09	Honoring the Contributions of Laj Ahuja: Building Bridges		
	Among Disciplines by Synthesizing and Quantifying Soil and	10.55 AM 2.20 DM	
	Plant Processes for Whole Systems Modeling Oral Field-Based Phenotyping in Maricopa-Wednesday	10:55 AM - 2:30 PM 12:30 PM - 4:00 PM	PCC, 227 C PCC, 3rd St Entrance
55	Honoring the Contributions of Laj Ahuja: Building Bridges	12.001101 1.001101	ree, ord or Entrance
	Among Disciplines By Synthesizing and Quantifying Soil and		
	Plant Processes for Whole Systems Modeling Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
١gr	oclimatology and Agronomic Modeling Community		
	uesday		
25	Symposium-Decision Agriculture: Integrating Precision Tools,	0.20 ANA 11.20 ANA	$DCC_{10}C$
29	Data Science, and Agronomic Knowledge for Improved Decisions SymposiumNitrogen Modeling Programs	9:30 AM - 11:30 AM 9:30 AM - 11:55 AM	PCC, 126C PCC, 129 B
34	SymposiumCrop Modeling and Plant Breeding:	5.007mVr 11.007mVr	1 ((), 12) b
	Intersecting Disciplines for a Resilient Agriculture	9:45 AM - 11:35 AM	PCC, 122 BC
.91	SymposiumBuilding Resilience to Face Climate Change in		DCC 22(C
519	China-US Collaborative Research On-Farm Research: Advancing Precision Ag Tools, Data Analysis and	2:00 PM - 5:00 PM	PCC, 226 C
1	Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
57	ASA Community Business Meeting		
	Agroclimatology and Agronomic Modeling	7:15 PM - 7:30 PM	PCC, 126C
	Vednesday		
61	SymposiumHonoring the Contributions of Laj Ahuja: Building Bridges Among Disciplines By Synthesizing and		
	Quantifying Soil and Plant Processes for Whole Systems Modeling	7:30 AM - 10:45 AM	PCC, 227 C
04	On-Farm Research: II. Advancing Precision Ag Tools	10:15 AM - 3:00 PM	PCC, 223
09	Honoring the Contributions of Laj Ahuja: Building Bridges Among		
	Disciplines by Synthesizing and Quantifying Soil and Plant Processes for Whole Systems Modeling Oral	10:55 AM - 2:30 PM	PCC, 227 C
55	Honoring the Contributions of Laj Ahuja: Building Bridges Among	10.557 (1)1 - 2.501 (1)1	100,227 0
	Disciplines By Synthesizing and Quantifying Soil and		
	Plant Processes for Whole Systems Modeling Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
\irl	oorne and Satellite Remote Sensing Community		
\mathbf{N}	Ionday		
1	SymposiumSoil Moisture Sensing for	9.00 ANA 11.40 ANA	DCC 021 C
т	Crop Health Assessment and Management uesday	8:00 AM - 11:40 AM	PCC, 231 C
40	SymposiumRemote Sensing of Land Surface and		
	Vadose Zone Hydrologic Processes	10:00 AM - 12:15 PM	PCC, 131 A
848	Remote Sensing of Land Surface and		
ТА	Vadose Zone Hydrologic Processes Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	/ednesday Agricultural Remote Sensing Oral	8:00 AM - 12:00 PM	PCC, 228 A
	ASA Community Business Meeting	0.0071101 12.001101	100,22011
	Airborne and Satellite Remote Sensing	11:30 AM - 12:00 PM	PCC, 228 A
54	Agricultural Remote Sensing Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
	physical Measurements and Sensors Community		
	londay		
5	Advances in Soil Sensing and Model Integration with Instrumentation Oral	9:30 AM - 12:00 PM	PCC, 132 C
11	SymposiumEvolution of Biophysical Measurements:	9.007 HVI 12.001 IVI	100,1020
	Legacy of the US Water Conservation Lab and Advances in		
• •	Rapid Phenotyping	1:30 PM - 3:55 PM	PCC, 231 C
29	ASA Community Business Meeting Biophysical Magsurements and Sensors	2.10 DN1 2.55 DN1	PCC 221 C
79	Biophysical Measurements and Sensors Advances in Soil Sensing and Model Integration with	2:40 PM - 2:55 PM	PCC, 231 C
	Instrumentation Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
			,

		LOCATION
Tuesday		
2. SymposiumPartitioning of Evapotranspiration: Instrumentation and Simulation	9:30 AM - 12:15 PM	PCC, 126 A
Evapotranspiration Measurements and Modeling Oral (includes student competition)	1:30 PM - 3:45 PM	PCC, 126 A
Evapotranspiration Measurements and Modeling Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
apotranspiration Measurement and Modeling Commu Tuesday	inity	
SymposiumPartitioning of Evapotranspiration: Instrumentation and Simulation	9:30 AM - 12:15 PM	PCC, 126 A
Evapotranspiration Measurements and Modeling Oral (includes student competition)	1:30 PM - 3:45 PM	PCC, 126 A
ASA Community Business Meeting Evapotranspiration Measurement and Modeling	3:30 PM - 3:45 PM	PCC, 126 A
2 Evapotranspiration Measurements and Modeling Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
obal Climate Change Community		
Monday		
Global Climate Change General Oral (includes student competition)	8:00 AM - 11:30 AM	РСС, 232 В
SymposiumCounting Carbon on the Farm: Science, System, and Support SymposiumExtreme Temperature and Drought Effects on ET and	9:00 AM - 11:25 AM	РСС, 227 С
Crop Water Stress: Data, Concepts, and Modeling Global Climate Change General Poster	1:30 PM - 3:50 PM	PCC, 232 A
(includes student competition)	4:00 PM - 5:00 PM	PCC, Exhibit Hall CDE
Tuesday <i>SymposiumBuilding Resilience to Face Climate Change in</i>		
China-US Collaborative Research Animal Agriculture & the Environment (includes student competition)	2:00 PM - 5:00 PM 4:00 PM - 6:00 PM	PCC, 226 C PCC, Exhibit Hall CDE
Wednesday		
AgMIP: Advances in Crop & Soil Model Intercomparison and Improvement Oral	2:00 PM - 3:25 PM	PCC, 228 A
AgMIP: Advances in Crop & Soil Model Intercomparison and Improvement Poster	3:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
ASA Community Business MeetingGlobal Climate Change	3:35 PM - 4:00 PM	PCC, 228 A
odel Applications in Field Research Community Monday		
Model Applications in Field Research Oral I SymposiumExtreme Temperature and Drought Effects on ET	9:00 AM - 11:20 AM	PCC, 232 A
and Crop Water Stress: Data, Concepts, and Modeling Tuesday	1:30 PM - 3:50 PM	PCC, 232 A
SymposiumDecision Agriculture: Integrating Precision Tools, Data Science, and Agronomic Knowledge for Improved Decisions	9:30 AM - 11:30 AM	PCC, 126C
SymposiumCrop Modeling and Plant Breeding: I ntersecting Disciplines for a Resilient Agriculture	9:45 AM - 11:35 AM	PCC, 122 BC
Model Applications in Field Research and Management Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
On-Farm Research: Advancing Precision Ag Tools, Data Analysis and Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday Model Applications in Field Research Oral II		
(includes student competition) On-Farm Research: II. Advancing Precision Ag Tools	8:30 AM - 10:50 AM 10:15 AM - 3:00 PM	PCC, 228 B PCC, 223
ASA Community Business Meeting Model Applications in Field Research	10:35 AM - 10:50 AM	PCC, 228 B
AgMIP: Advances in Crop & Soil Model Intercomparison and Improvement Oral	2:00 PM - 3:25 PM	PCC, 228 A
AgMIP: Advances in Crop & Soil Model Intercomparison and Improvement Poster	3:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
nsor-Based Water Management Community Monday		

Sess	ION NO./TITLE	DATE & TIME	LOCATION
111	SymposiumEvolution of Biophysical Measurements: Legacy of the US Water Conservation Lab and Advances in Rapid Phenotyping	1:30 PM - 3:55 PM	РСС, 231 С
79 Ti	Advances in Soil Sensing and Model Integration with Instrumentation Poster uesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Symposium–Partitioning of Evapotranspiration: Instrumentation and Simulation	9:30 AM - 12:15 PM	РСС, 126 А
81	Evapotranspiration Measurements and Modeling Oral (includes student competition)	1:30 PM - 3:45 PM	PCC, 126 A
08	ASA Community Business Meeting Sensor-Based Water Management	3:35 PM - 4:05 PM	PCC, 126 B
22	Evapotranspiration Measurements and Modeling Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
W 03	/ednesday SymposiumUse of Aerial Imagery for Nutrient Management	10:15 AM - 11:50 AM	PCC, 231 B
	Soil-Plant-Water Relations Oral	1:30 PM - 3:35 PM	PCC, 228 B
N	Carbon and Greenhouse Gas Emissions Community Ionday		
6	SymposiumCounting Carbon on the Farm: Science, System, and Support	9:00 AM - 11:25 AM	PCC, 227 C
	-Plant-Water Relations Community Ionday		
1	SymposiumSoil Moisture Sensing for Crop Health Assessment and Management	8:00 AM - 11:40 AM	PCC, 231 C
	Soil-Plant-Water Relations Poster (includes student competition) /ednesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
43	Soil-Plant-Water Relations Oral ASA Community Business MeetingSoil-Plant-Water Relations	1:30 PM - 3:35 PM 3:35 PM - 4:05 PM	PCC, 228 B PCC, 228 B
	Section: Education and Extension		
	Ionday		
58 58 58	Symposium100th Anniversary of the Langmuir Equation, 1916-2016 Langmuir's World (Video)	9:20 AM - 12:00 PM 12:00 PM - 4:30 PM	PCC, 130 PCC, 130
63	Vednesday New Frontiers of Soil and Plant Sciences: Astropedology and		
	Space Agriculture	7:55 AM - 12:00 PM	PCC, 125 B
64	Education and Extension Oral	8:00 AM - 9:50 AM	PCC, 225 B
97 51	ASA Business MeetingEducation and Extension Education and Extension Poster	9:50 AM - 10:50 AM 2:30 PM - 4:00 PM	PCC, 225 B PCC, Exhibit Hall CDE
	vancing Agronomy via Public-Private Collaboration Co Ionday	ommunity	
.00	Symposium"Hot" Tools and Technologies from Public- and		
.30	Private-sector Agronomy Programs ASA Community Business MeetingAdvancing Agronomy via	1:30 PM - 3:00 PM	РСС, 127 В
ivto	Public-Private Collaboration ension Education Community	3:00 PM - 4:00 PM	РСС, 127 В
	Ionday		
32	Extension Materials on Display I	7:00 AM - 6:00 PM	PCC, Exhibit Hall CDE
1	On-Farm Research: I. Data Analysis & Extension Implications	10:40 AM - 12:00 PM	РСС, 127 В
59	General Extension Education Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
.57 Ti	Applied Agronomic Research and Extension Poster uesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Extension Materials on Display II	7:00 AM - 6:00 PM	PCC, Exhibit Hall CDE
.19	Applied Agronomic Research and Extension Oral	9:30 AM - 10:45 AM	PCC, 226 A
.44 .90	ASA Community Business MeetingExtension Education SymposiumEnhancing the Sustainability and Resilience of Food Production with Extension and Integrated Extension-Research	11:00 AM - 12:00 PM	PCC, 226 A
19	Strategies On-Farm Research: Advancing Precision Ag Tools, Data Analysis and	2:00 PM - 4:05 PM	PCC, 231 A
W	Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
60	Extension Materials on Display III	7:00 AM - 4:30 PM	PCC, Exhibit Hall CDE
398	General Extension Education Oral	9:55 AM - 10:30 AM	PCC, 225 A
104	On-Farm Research: II. Advancing Precision Ag Tools	10:15 AM - 3:00 PM	PCC, 223

Cosponsored sessions are ide Session No./Title		LOCATION
K-12 Outreach and Activities Community		
Monday 158 Connecting Agronomy and STEM Education in K-12 Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday396 ASA Community Business MeetingK-12 Outreach and Activities	9:35 AM - 9:50 AM	PCC, 225 A
Social Media in Education/Extension Community		
 Monday SymposiumSay Hello to My Little Friend!: Using Social Media Effectively to Increase Resiliency of Your Programs & Teaching ASA Community Business Meeting Social Media in Education/Extension 	8:00 AM - 10:15 AM 10:15 AM - 10:45 AM	PCC, 127 A PCC, 127 A
Undergraduate Education Community	10.107101 10.107101	100,12711
 Monday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 Langmuir's World (Video) Undergraduate Education Poster Tuesday 	9:20 AM - 12:00 PM 12:00 PM - 4:30 PM 4:00 PM - 6:00 PM	PCC, 130 PCC, 130 PCC, Exhibit Hall CDE
223 Undergraduate Education Oral245 ASA Community Business MeetingUndergraduate Education	9:30 AM - 11:00 AM 11:00 AM - 12:00 PM	PCC, 226 B PCC, 226 B
ASA Section: Environmental Quality		
Sunday Comet-Farm:Evaluate How Conservation Practices Can Impact the		
Carbon Footprint of Agriculture and Forestry. Monday	8:30 AM - 12:30 PM	РСС, 227 В
43 Environmental Quality Oral105 SymposiumEnvironmental Quality: A One Health Perspective	8:00 AM - 11:45 AM 1:30 PM - 3:25 PM	PCC, 127 C PCC, 127 C
Tuesday 274 SymposiumManufactured, Blended, and Engineered Soils for Urban Applications	1:30 PM - 3:15 PM	PCC, 124 A
306 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition)	3:30 PM - 4:00 PM	PCC, 226 A
Wednesday 392 Soil Functional Zone Management:a Vehicle for Enhancing		
 Agroecosystem Services ASA Business MeetingEnvironmental Quality Environmental Quality Poster 	9:30 AM - 11:20 AM 11:15 AM - 12:00 PM 2:30 PM - 4:30 PM	PCC, 221 A PCC, 122 A PCC, Exhibit Hall CDE
Animal Agriculture and the Environment Community		
 Monday SymposiumManure Management: Measuring and Mitigating Nutrient Losses and Gaseous Emissions 	8:30 AM - 10:35 AM	PCC, 228 B
Tuesday 206 <i>SymposiumSoil Organic Amendments and N Cycling: Strategies to</i>		
 Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer Input, Nitrate Leaching, and Nitrous Oxide Emissions 215 Soil N Characterization and N Management 	8:00 AM - 11:00 AM 9:25 AM - 11:50 AM	PCC, 131 B PCC, 130
271 Manure Management: Maximizing Plant Production and Nutrient Use Efficiency	1:30 PM - 3:05 PM	PCC, 125 A
324 Animal Agriculture and the Environment (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday 438 Water and Soil Microbial Populations Affected By Wastewater, Bissistic Affected By Wastewater,		DCC 100 P
Biosolids, and Manure 476 ASA Community Business MeetingAnimal Agriculture and the	1:30 PM - 2:40 PM	PCC, 128 B
Environment Piocher: A groupomic and Environmental Lisse Community	2:40 PM - 3:40 PM	РСС, 128 В
Biochar: Agronomic and Environmental Uses Community Monday		
 48 Show Me the Science: Chemistry, Structure, Techniques, and Stuff (includes student competition) 187 Biochar Pariod: If You Have Data We Want to See It 	8:15 AM - 10:20 AM	РСС, 226 В
187 Biochar Period: If You Have Data We Want to See It (includes student competition)	4:30 PM - 6:00 PM	PCC, Exhibit Hall CDE
Wednesday 384 Where the Rubber Meets the Road: Novel and Real Uses of		
Biochar to Help People, Profit, and Plant (includes student competition)	9:00 AM - 10:20 AM	PCC, 121 C

	Cosponsored sessions are in	chuncu m <i>nunc</i> .	
	SION NO./TITLE	DATE & TIME	LOCATION
434	ASA Community Business MeetingBiochar: Agronomic and Environmental Uses	1:30 PM - 2:30 PM	PCC, 127 C
	product Gypsum Uses in Agriculture Community uesday		
	Current Agricultural and Environmental Uses of Gypsum ASA Community Business MeetingBy-product Gypsum Uses in	9:40 AM - 11:00 AM	РСС, 127 В
289	Agriculture Gypsum Use in Agriculture Poster	11:00 AM - 12:30 PM 2:00 PM - 4:00 PM	PCC, 127 B PCC, Exhibit Hall CDE
	naging Denitrification in Agronomic Systems Commu Ionday	nity	
121	SymposiumExchanging Waterway Nutrient Abundance for Scarcity	1:55 PM - 4:00 PM	PCC, 127 A
	uesday Watershed Management Planning: Predicting Nutrient Reductions		
296	Due to the Implementation of Best Management Practices 5 Minute Rapid: Denitrification Strategies to Reduce Nutrient	9:30 AM - 10:50 AM	РСС, 227 А
324	Excesses in Waterways Animal Agriculture & the Environment (includes student competition)	2:45 PM - 4:05 PM 4:00 PM - 6:00 PM	PCC, 127 C PCC, Exhibit Hall CDE
	rients and Environmental Quality Community Ionday		
	Symposiumthe Grand Challenge –		
121	Water: Food, Energy and Environmental Security SymposiumExchanging Waterway Nutrient Abundance for Scarcity	1:30 PM - 3:30 PM 1:55 PM - 4:00 PM	PCC, 232 B PCC, 127 A
162 T	Counting Carbon on the Farm: Science, Systems and Support Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	uesday Watershed Management Planning:		
	Predicting Nutrient Reductions Due to the Implementation of Best Management Practices	9:30 AM - 10:50 AM	РСС, 227 А
271	Manure Management: Maximizing Plant Production and Nutrient Use Efficiency	1:30 PM - 3:05 PM	PCC, 125 A
296	5 Minute Rapid: Denitrification Strategies to Reduce Nutrient Excesses in Waterways	2:45 PM - 4:05 PM	PCC, 127 C
	Animal Agriculture & the Environment (includes student competition) Vednesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
375	SymposiumMinimizing Phosphorus Losses during the Non-Growing Season	8:00 AM - 12:15 PM	PCC, 124 A
429	ASA Community Business MeetingNutrients and Environmental Quality	12:20 PM - 12:35 PM	PCC, 124 A
	Nutrient Management Law and Regulation	1:30 PM - 3:30 PM	PCC, 128 A
	Carbon and Greenhouse Gas Emissions Community unday		
	Comet-Farm:Evaluate How Conservation Practices Can Impact the Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	РСС, 227 В
	fonday		
47 52	Agricultural Practices to Improve Nitrogen-Use Efficiency and Mitigate Greenhouse Gas Emission Oral SymposiumManure Management: Measuring and Mitigating	8:00 AM - 3:15 PM	PCC, 226 C
52	Nutrient Losses and Gaseous Emissions SymposiumCounting Carbon on the Farm: Science, System,	8:30 AM - 10:35 AM	РСС, 228 В
162	and Support Counting Carbon on the Farm: Science, Systems and Support	9:00 AM - 11:25 AM	РСС, 227 С
161	Poster (includes student competition) Agricultural Practices to Improve Nitrogen-Use Efficiency and	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
т	Mitigate Greenhouse Gas Emission Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
1 197	uesday SymposiumClimate Mitigation from Soil -		
231	Meeting COP21 Initiative Goals Management Practices and Land-Use Impact on Global Warming	7:55 AM - 10:00 AM	PCC, 129 A
268	Potential and Greenhouse Gas Intensity ASA Community Business MeetingSoil Carbon and Greenhouse	9:30 AM - 12:10 PM	РСС, 127 С
	Gas Emissions	1:30 PM - 2:30 PM	РСС, 127 С

SESS	ION NO./TITLE	DATE & TIME	LOCATION
270	Improving Accuracy and Precision of Soil Carbon and		
	Greenhouse Gas Emission Measurements and Quantification Oral	1:30 PM - 3:00 PM	PCC, 227 A
325	Improving Accuracy and Precision of Soil Carbon and Greenhouse Gas Emission Measurements and Quantification Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Vednesday Soil-Plant-Atmosphere Interactions and Soil Carbon Dynamics in Long-Term Research Experiments	8:00 AM - 10:00 AM	PCC, 122 A
	tainable Intensification Community Ionday		
57	SymposiumSustainable Intensification: Global Frameworks and Implications for the U.S.	9:15 AM - 12:00 PM	PCC, 128 A
	Sustainable Intensification Research: Assessing Multiple Biophysical and Socioeconomic Outcomes	1:30 PM - 4:15 PM	PCC, 228 B
	ASA Community Business Meeting Sustainable Intensification Community	3:30 PM - 4:15 PM	РСС, 228 В
	V ednesday Soil Functional Zone Management:a Vehicle for Enhancing Agroecosystem Services	9:30 AM - 11:20 AM	PCC, 221 A
ASA	Section: Global Agronomy		
57	londay SymposiumSustainable Intensification: Global Frameworks and Implications for the U.S.	9:15 AM - 12:00 PM	PCC, 128 A
371 388 435 457	Vednesday Global Agronomy Oral SymposiumTransforming Smallholder Agronomy in Africa ASA Business MeetingGlobal Agronomy Global Agronomy Poster	8:00 AM - 11:25 AM 9:10 AM - 10:55 AM 1:30 PM - 2:30 PM 2:30 PM - 4:30 PM	PCC, 226 B PCC, 226 C PCC, 226 B PCC, Exhibit Hall CDE
Agr	onomic Solutions for Smallholders Community		
T1 226 248	uesday SymposiumTechnologies for Resilience to Climate Change and Information Technologies for Small Stakeholders ASA Community Business MeetingAgronomic Solutions for Smallholders	9:30 AM - 11:30 AM 11:30 AM - 12:00 PM	PCC, 226 C PCC, 226 C
	onomy in Africa Community		,
388	Jednesday SymposiumTransforming Smallholder Agronomy in Africa ASA Community Business MeetingAgronomy in Africa	9:10 AM - 10:55 AM 11:00 AM - 11:30 AM	PCC, 226 C PCC, 226 A
	ning Access to Agronomic Inputs Community		
107	Ionday SymposiumFeed the Future - Impacts, Successes and Challenges	1:30 PM - 3:30 PM	PCC, 221 B
143 Ti	ASA Community Business Meeting Gaining Access to Agronomic Inputs	3:30 PM - 4:00 PM	РСС, 221 В
326	uesday Feed the Future - Impacts, Successes and Challenges Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	bal Digital Soil Map Community uesday		
225 319	SymposiumDecision Agriculture: Integrating Precision Tools, Data Science, and Agronomic Knowledge for Improved Decisions On-Farm Research: Advancing Precision Ag Tools, Data Analysis and	9:30 AM - 11:30 AM	PCC, 126C
	Extension implications (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	On-Farm Research: II. Advancing Precision Ag Tools ASA Community Business MeetingGlobal Digital Soil Map	10:15 AM - 3:00 PM 11:30 AM - 12:00 PM	PCC, 223 PCC, 226 B
	ennial Grain Development Community Jednesday		
	ASA Community Business Meeting		

Cosponsored sessions are identified in <i>italic</i> .	Cosponsored	sessions	are identifie	d in <i>italic</i> .
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Cosponsored sessions are id		_
Session No./Title	DATE & TIME	Location
Tropical Legumes Community Monday		
128 SymposiumQTL That Matter Tuesday	2:30 PM - 4:35 PM	PCC, 123
 273 Tropical Legumes Oral 301 ASA Community Business MeetingTropical Legumes 327 Tropical Legumes Poster 	1:30 PM - 3:10 PM 3:10 PM - 3:40 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 226 B PCC, Exhibit Hall CDE
U.SSino Agricultural Research Forum Community	4.001111-0.001111	TCC, EXHIBIT Hall CDE
Tuesday		
 ASA Community Business Meeting U.SSino Agricultural Research Forum SymposiumBuilding Resilience to Face Climate Change in 	1:30 PM - 2:00 PM	PCC, 226 C
China-US Collaborative Research	2:00 PM - 5:00 PM	PCC, 226 C
ASA Section: Land Management and Conservation		
Sunday Comet-Farm:Evaluate How Conservation Practices Can Impact the Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	РСС, 227 В
Monday 106 Symposiumthe Grand Challenge – Water: Food, Energy and		-
Environmental Security Tuesday	1:30 PM - 3:30 PM	РСС, 232 В
 Land Management and Conservation Oral ASA Business MeetingLand Management and Conservation Land Management and Conservation Poster 	1:30 PM - 3:15 PM 3:30 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, 225 B PCC, 225 B PCC, Exhibit Hall CDE
Agricultural Experiment Station Management Communit	y	
Sunday Urban Soils-the Desert/City Interface Phoenix	7:00 AM - 4:30 PM	PCC, 3rd St Entrance
Monday 54 SymposiumAgricultural Experiment Stations in the Southwest-Successes and Concerns	9:00 AM - 11:00 AM	PCC, 221 A
Wednesday Reaching out to Our Audience in the 21st Century	9:00 AM - 10:00 AM	PCC, 221 B
ASA Community Business Meeting Agricultural Experiment Station Management	10:00 AM - 10:30 AM	РСС, 221 В
Cover Crop Management Community		
Monday Cover Crop Management Oral (includes student competition)	8:00 AM - 11:40 AM	РСС, 221 В
Tuesday 328 Cover Crop Management Poster Wednesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Economics of Cover Crops and Impact on Crop Productivity OralASA Community Business MeetingCover Crop Management	8:00 AM - 9:50 AM 10:00 AM - 10:30 AM	PCC, 221 C PCC, 221 C
Agro-Ecosystem Services?	1:30 PM - 3:40 PM	PCC, 221 C
Military Land Use and Management Community Tuesday		
 ASA Community Business Meeting Military Land Use and Management Military Land Use and Management Poster 	2:30 PM - 3:30 PM 4:00 PM - 6:00 PM	PCC, 228 A PCC, Exhibit Hall CDE
Soil Health Community	4.001111-0.001111	TCC, EXHIBIT Hall CDE
Sunday Comet-Farm:Evaluate How Conservation Practices Can Impact the		
Contervent Construction Fractices Can Impact the Carbon Footprint of Agriculture and Forestry. 20 SymposiumEnabling Fiber Productivity Increases through	8:30 AM - 12:30 PM	РСС, 227 В
Multi-Disciplinary Innovations	3:00 PM - 4:50 PM	РСС, 221 В
Monday 24 SymposiumSoil Health Measurements for Resilient Agriculture: Assessments for Land Managers	2:00 PM - 3:45 PM	PCC, 221 A
Tuesday 224 Soil Health for Improving Soil Water Dynamics and		
Agroecosytem Resilience 249 ASA Community Business MeetingSoil Health	9:30 AM - 11:20 AM 11:30 AM - 12:00 PM	PCC, 221 A PCC, 221 A
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	ION NO./TITLE	DATE & TIME	Location
	Soil Health for Resilient Agroecosystems (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Vednesday		
92	Soil Functional Zone Management:a Vehicle for Enhancing Agroecosystem Services	9:30 AM - 11:20 AM	PCC, 221 A
201	Crop Breeding and Genetics		
S	unday		
	Field-Based Phenotying in Maricopa-Sunday	11:00 AM - 4:00 PM	PCC, 3rd St Entrance
20	SymposiumEnabling Fiber Productivity Increases through Multi-Disciplinary Innovations	3:00 PM - 4:50 PM	PCC, 221 B
Ν	Ionday		100, === 2
37	SymposiumPlant Breeding Post Genome Sequence:		
	Where Do We Go from Here?	8:00 AM - 9:50 AM	PCC, 122 BC
76	SymposiumUtilization of Omics Approaches to Improve Stress Tolerance	10:00 AM - 12:00 PM	PCC, 225 B
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
127	SymposiumApproaches in IPR for Delivering Public Benefits of		1 00, 120
	Plant Breeding	2:30 PM - 4:30 PM	PCC, 124 A
28	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
163	Crop Breeding & Genetics Poster I (includes graduate student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
Т	uesday	4.00 1 101 - 0.00 1 101	i ee, exhibit Hall eDE
	Ron Phillips Plant Genetics Lectureship	8:30 AM - 9:35 AM	PCC, 122 BC
227	SymposiumNovel and Ancient Crops: Small in Acreage,		
	Large in Value	9:30 AM - 11:35 AM	PCC, 122 A
234	SymposiumCrop Modeling and Plant Breeding:	0.4E ANA 11.2E ANA	RCC 122 RC
258	Intersecting Disciplines for a Resilient Agriculture SymposiumAdapting Cropping Systems to Drought and	9:45 AM - 11:35 AM	PCC, 122 BC
-00	Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
282	Crop Breeding & Genetics Oral I	1:30 PM - 3:50 PM	PCC, 122 BC
276	SymposiumNative Crops and Genetic Resources from the		DCC 100 4
332	Southwest Crop Breeding & Genetics Poster II	1:30 PM - 3:30 PM 4:00 PM - 6:00 PM	PCC, 122 A PCC, Exhibit Hall CDE
	Vednesday	4.001111-0.001111	TCC, Exhibit Hail CDE
394 			
	Genebanks in the Post-Genomic Era	9:30 AM - 11:30 AM	Sheraton, Valley of the
			Sun D
124	CSSA Business MeetingJoint Division C01 and C07	11:30 AM - 12:30 PM	Sheraton, Valley of the Sun D
	Field-Based Phenotyping in Maricopa-Wednesday	12:30 PM - 4:00 PM	PCC, 3rd St Entrance
440	Crop Breeding & Genetics Oral II	1:30 PM - 3:30 PM	PCC, 124 B
C02	Crop Physiology and Metabolism		
_			
3	unday Field-Based Phenotying in Maricopa-Sunday	11:00 AM - 4:00 PM	PCC, 3rd St Entrance
\mathbf{N}	Ionday		,
34	C-2/C4 Graduate Student Oral Competition - I	7:55 AM - 9:45 AM	PCC, 225 B
76	SymposiumUtilization of Omics Approaches to Improve Stress		
25	Tolerance Martin and Ruth Massengale Lectureship	10:00 AM - 12:00 PM	PCC, 225 B PCC, 224 A
85 94	C-2/C4 Graduate Student Oral Competition - II	11:00 AM - 12:00 PM 1:10 PM - 3:45 PM	PCC, 224 A PCC, 225 B
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
l64	C-2/C-4 Student Competition Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
66_	C-4/C-2 Student Competition Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	uesday		DCC 100
.95 217	C-2/C4 Graduate Student Oral Competition - III Crop Physiology and Metabolism Oral	7:55 AM - 9:15 AM 9:25 AM - 12:00 PM	PCC, 123 PCC, 123
27	SymposiumNovel & Ancient Crops: Small in Acreage, Large in Value	9:30 AM - 11:35 AM	PCC, 123
234	Symposium-Crop Modeling and Plant Breeding:		,
	Intersecting Disciplines for a Resilient Agriculture	9:45 AM - 11:35 AM	PCC, 122 BC
256	Crop Physiology and Metabolism Oral II	12:55 PM - 4:00 PM	PCC, 123
	Vednesday		
889	SymposiumSensing for Phenotyping and Management: What Can Remote and Proximal Sensors Tell Us about		
	Physiological Properties of Crops?	9:25 AM - 11:25 AM	Sheraton, Ahwatukee A
125	CSSA Business MeetingCrop Physiology and Metabolism	11:30 AM - 12:30 PM	Sheraton, Ahwatukee A
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	SION NO./TITLE		
58	Field-Based Phenotyping in Maricopa-Wednesday Crop Physiology and Metabolism Poster	12:30 PM - 4:00 PM 2:30 PM - 4:30 PM	PCC, 3rd St Entrance PCC, Exhibit Hall CDI
203	Crop Ecology, Management and Quality		
N	Ionday		
3 7	SymposiumCrop Perception to Environmental Stress Poster and 5 Minute Rapid	8:55 AM - 11:00 AM	PCC, 121 C
65	Crop Ecology, Management and Quality Crop Ecology, Management and Quality Poster	1:30 PM - 2:05 PM 4:00 PM - 6:00 PM	PCC, 121 C PCC, Exhibit Hall CD
50 т	Developing Research and Extension Skills of Students in Integrated Agronomic Systems	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	'uesday Crop Ecology, Management and Quality Oral	9:25 AM - 2:15 PM	PCC, 121 C
34	Div. C03 Ph.D. Poster Competition	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	Div. C03 M.S. Poster Competition	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	Vednesday		,
	CSSA Business MeetingCrop Ecology, Management and Quality	9:30 AM - 12:00 PM	Sheraton, Camelback
	Seed Physiology, Production and Technology		
4 4	fonday C-2/C4 Graduate Student Oral Competition - I	7:55 AM - 9:45 AM	PCC, 225 B
± 4	C-2/C4 Graduate Student Oral Competition - I	1:10 PM - 3:45 PM	PCC, 225 B
- 02	SymposiumSeed Production and Field Performance in	1.10 1 191 0.10 1 191	1 CC, 220 D
	Relation to Seed Quality	1:30 PM - 3:10 PM	PCC, 226 A
28	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
38	CSSA Business Meeting		
	Seed Physiology, Production and Technology	3:10 PM - 4:10 PM	PCC, 226 A
	C-4/C-2 Student Competition Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	C-2/C-4 Student Competition Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	'uesday C-2/C4 Graduate Student Oral Competition - III	7:55 AM - 9:15 AM	PCC, 123
		7.55 AW - 9.15 AW	1 CC, 125
_05	Turfgrass Science		
S	unday		
	Stiegler Fellowship Golf Fundraiser	6:30 AM - 1:00 PM	PCC, 3rd St Entrance
	Introduction to JMP Software	8:30 AM - 11:30 AM	PCC, 227 A
	Advanced Techniques in JMP Software	1:30 PM - 4:30 PM	PCC, 227 A
.4	What's New in the Turfgrass Industry	4:00 PM - 5:30 PM	PCC, 223
	Ionday	THE AND 10.4E AND	DCC 222
15 16	Turfgrass Ecology and Management (student competition) Applied Pest Management (student competition)	7:55 AM - 10:45 AM	PCC, 223 PCC, 221 C
5	Martin and Ruth Massengale Lectureship	7:55 AM - 11:15 AM 11:00 AM - 12:00 PM	PCC, 224 A
5	Turfgrass Management	1:25 PM - 3:15 PM	PCC, 224 A
03	Turfgrass Management: Weeds	1:30 PM - 3:20 PM	PCC, 221 C
68	Turfgrass Breeding, Genetics and Molecular Techniques Poster		· · · · , · · ·
	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
67	Golf Turf Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	Turfgrass Management Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
Т	uesday		
Т 98	uesday Golf Turf Management (student competition)	7:55 AM - 10:15 AM	PCC, 224 A
T 98	uesday Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques		
T 98 96	Tuesday Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition)	7:55 AM - 10:00 AM	PCC, 225 B
T 98 96 42	Tuesday Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM	PCC, 225 B PCC, 225 B
T 98 96 42 43	Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM	PCC, 225 B PCC, 225 B PCC, 224 A
T 98 96 42 43 61	Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM	PCC, 225 B PCC, 225 B
T 98 96 42 43 61 63	Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM	PCC, 225 B PCC, 225 B PCC, 224 A
T 98 96 42 43 61 63	Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs:	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A
T 98 96 42 43 61 63 74 00	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications Minute Rapid USGA/GCSAA Sponsored Research Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 224 B PCC, 124 A PCC, 224 A
T 98 96 42 43 61 63 74 00 06	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 124 A PCC, 224 A PCC, 224 A
T 98 96 42 43 61 63 74 00 06 35	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications Minute Rapid USGA/GCSAA Sponsored Research Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) Applied Pest Management Poster (includes student competition) 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM 3:30 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 124 A PCC, 224 A PCC, 224 A PCC, 226 A PCC, Exhibit Hall CD
T 98 96 42 43 61 63 74 00 06 35 38	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) Applied Pest Management Poster (includes student competition) Turfgrass Science Poster 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 124 A PCC, 224 A PCC, 224 A PCC, 226 A PCC, Exhibit Hall CD
T 98 96 42 43 61 63 74 00 06 35 38	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) Applied Pest Management Poster (includes student competition) Turfgrass Science Poster Turf Ecology and Management Poster 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM 3:30 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 124 A PCC, 224 A PCC, 224 A PCC, 226 A PCC, Exhibit Hall CD PCC, Exhibit Hall CD
.69 T 98 96 42 43 66 36 37 4 600 606 335 338 336 337	 Golf Turf Management (student competition) Turfgrass Breeding, Genetics, and Molecular Techniques (student competition) Turfgrass Breeding and Genetics Turfgrass Management: Diseases/Insects 5 Minute RapidTurfgrass Science SymposiumFuture of Turf Undergraduate Programs: Admission, Enrollment and Retention SymposiumManufactured, Blended, and Engineered Soils for Urban Applications 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid USGA/GCSAA Sponsored Research 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) Applied Pest Management Poster (includes student competition) Turfgrass Science Poster 	7:55 AM - 10:00 AM 10:25 AM - 11:45 AM 10:25 AM - 12:15 PM 1:25 PM - 2:50 PM 1:25 PM - 3:30 PM 1:30 PM - 3:15 PM 3:00 PM - 4:35 PM 3:30 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, 225 B PCC, 225 B PCC, 224 A PCC, 224 A PCC, 224 B PCC, 124 A PCC, 224 A

	ION NO./TITLE	DATE & TIME	LOCATION
W 393	Vednesday CSSA Business MeetingTurfgrass Science	9:30 AM - 11:30 AM	Sheraton, Deer Valley
<u>C06</u>	Forage and Grazinglands		
S	unday		
	Introduction to JMP Software	8:30 AM - 11:30 AM	PCC, 227 A
	Advanced Techniques in JMP Software	1:30 PM - 4:30 PM	PCC, 227 A
	Ionday Bahart F. Barriso Ph. D. Oral Constant	8.00 ANA 10.25 ANA	
39 52	Robert F Barnes Ph.D. Oral Contest SymposiumManure Management: Measuring and Mitigating	8:00 AM - 10:35 AM	PCC, 224 A
52	Nutrient Losses and Gaseous Emissions	8:30 AM - 10:35 AM	PCC, 228 B
85	Martin and Ruth Massengale Lectureship	11:00 AM - 12:00 PM	PCC, 224 A
113	Forage and Grazinglands Oral I	1:30 PM - 4:00 PM	PCC, 225 A
170	Robert F Barnes M.S. Poster Contest	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
150	Developing Research and Extension Skills of Students in Integrated	4.00 DM 6.00 DM	DCC Eyhihit Hall CDE
т	Agronomic Systems uesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	SymposiumResiliency in Forages and Grazinglands	8:00 AM - 12:00 PM	PCC, 223
285		1:30 PM - 4:00 PM	PCC, 223
	Manure Management: Maximizing Plant Production and Nutrient		
	Use Efficiency	1:30 PM - 3:05 PM	PCC, 125 A
	Forage and Grazinglands Poster I	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Vednesday	0.00 434 10.00 434	
390 408	SymposiumForage Roundtable CSSA Business MeetingForage and Grazinglands	9:30 AM - 10:30 AM 10:45 AM - 11:45 AM	Sheraton, Ahwatukee B Sheraton, Ahwatukee B
±08 459	Forage and Grazinglands Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
	0 0	2.001111 1.001111	i ee, Exhibit i hui eDE
	Genomics, Molecular Genetics and Biotechnology		
	Ionday		
45	Genomics, Molecular Genetics and Biotechnology Oral		DCC 124 A
37	(includes student competition) SymposiumPlant Breeding Post Genome Sequence:	8:00 AM - 2:00 PM	PCC, 124 A
57	Where Do We Go from Here?	8:00 AM - 9:50 AM	PCC, 122 BC
73	Biomedical, Health-Beneficial and Nutritionally Enhanced	0.0071101 9.0071101	100,122.00
	Plants Oral	9:45 AM - 12:30 PM	PCC, 123
98	Calvin Sperling Memorial Biodiversity Lectureship	1:30 PM - 2:30 PM	PCC, 123
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
127	SymposiumApproaches in IPR for Delivering Public Benefits of	2.20 DM 4.20 DM	PCC, 124 A
171	Plant Breeding Biomedical, Health-Beneficial and Nutritionally Enhanced	2:30 PM - 4:30 PM	FCC, 124 A
1/1	Plants Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
163	Crop Breeding & Genetics Poster I		
	(includes graduate student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	uesday		
214	Ron Phillips Plant Genetics Lectureship	8:30 AM - 9:35 AM	PCC, 122 BC
227	SymposiumNovel and Ancient Crops: Small in Acreage,	0.20 AM 11.25 AM	DCC 122 A
234	Large in Value SymposiumCrop Modeling and Plant Breeding:	9:30 AM - 11:35 AM	PCC, 122 A
201	Intersecting Disciplines for a Resilient Agriculture	9:45 AM - 11:35 AM	PCC, 122 BC
276	SymposiumNative Crops and Genetic Resources from the		,
	Southwest	1:30 PM - 3:30 PM	PCC, 122 A
282	Crop Breeding & Genetics Oral I	1:30 PM - 3:50 PM	PCC, 122 BC
276	SymposiumNative Crops and Genetic Resources from the Southwest	1:30 PM - 3:30 PM	PCC, 122 A
304 340	Poster and 5 Minute RapidPlant Genetic Resources Genomics, Molecular Genetics and Biotechnology Poster	3:30 PM - 3:55 PM	PCC, 122 A
010	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
341	Plant Genetic Resources Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Crop Breeding & Genetics Poster II	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
W	Vednesday		
394	Symposiumthe Prominent Role of Plant Genetic Resources and	0.00 13 4 11 00 10	
	Genebanks in the Post-Genomic Era	9:30 AM - 11:30 AM	Sheraton, Valley of the
126	CSSA Business Meeting Joint Division C07 and C01	11.30 ANA 19.20 DNA	Sun D Sheraton Valley of the
426	CSSA Business MeetingJoint Division C07 and C01	11:30 AM - 12:30 PM	Sheraton, Valley of the Sun D
445	Plant Genetic Resources Oral	1:30 PM - 4:20 PM	PCC, 126 A
440	Crop Breeding & Genetics Oral II	1:30 PM - 3:30 PM	PCC, 124 B

	ION NO./TITLE	DATE & TIME	Locatio
	Plant Genetic Resources		
	londay		
57	SymposiumPlant Breeding Post Genome Sequence:		
_	Where Do We Go from Here?	8:00 AM - 9:50 AM	PCC, 122 BC
8	Calvin Sperling Memorial Biodiversity Lectureship	1:30 PM - 2:30 PM	PCC, 123
28	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
27	SymposiumApproaches in IPR for Delivering Public Benefits of		
	Plant Breeding	2:30 PM - 4:30 PM	PCC, 124 A
.28	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
27	SymposiumApproaches in IPR for Delivering Public Benefits of	2.20 DM 4.20 DM	DCC 124 A
T	Plant Breeding	2:30 PM - 4:30 PM	PCC, 124 A
	1esday Frank N. Meyer Madel for Plant Constite Personnes Breakfast		
92	Frank N. Meyer Medal for Plant Genetic Resources Breakfast and Award	6:30 AM - 8:00 AM	Shoraton Mamurala B
14	Ron Phillips Plant Genetics Lectureship	8:30 AM - 9:35 AM	Sheraton, Maryvale B PCC, 122 BC
227	SymposiumNovel and Ancient Crops: Small in Acreage,	0.50 AIVI - 9.55 AIVI	1 CC, 122 DC
/	Large in Value	9:30 AM - 11:35 AM	PCC, 122 A
.52	CSSA Business MeetingPlant Genetic Resources	11:35 AM - 12:30 PM	PCC, 122 BC
.76	SymposiumNative Crops and Genetic Resources from the	11.55 Alvi - 12.50 I WI	1 CC, 122 DC
.70	Southwest	1:30 PM - 3:30 PM	PCC, 122 A
304	Poster and 5 Minute RapidPlant Genetic Resources	3:30 PM - 3:55 PM	PCC, 122 A
	Plant Genetic Resources Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	ednesday	1.001111 0.001111	
	Symposiumthe Prominent Role of Plant Genetic Resources and		
	Genebanks in the Post-Genomic Era	9:30 AM - 11:30 AM	Sheraton, Valley of the
			Sun D
145	Plant Genetic Resources Oral	1:30 PM - 4:20 PM	PCC, 126 A
			,
<u> </u>	Biomedical, Health-Beneficial and Nutritionally Enhanced	Plants	
S	inday		
	Field-Based Phenotying in Maricopa-Sunday	11:00 AM - 4:00 PM	PCC, 3rd St Entrance
Μ	londay		
37	SymposiumPlant Breeding Post Genome Sequence:		
	Where Do We Go from Here?	8:00 AM - 9:50 AM	PCC, 122 BC
73	Biomedical, Health-Beneficial and Nutritionally Enhanced		
	Plants Oral	9:45 AM - 12:30 PM	PCC, 123
127	SymposiumApproaches in IPR for Delivering Public Benefits of		
	Plant Breeding	2:30 PM - 4:30 PM	PCC, 124 A
128	SymposiumQTL That Matter	2:30 PM - 4:35 PM	PCC, 123
171	Biomedical, Health-Beneficial and Nutritionally Enhanced Plants Poster	4.00 DM (.00 DM	
T		4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
	1esday Den Dhilling Dhent Constinue Lastranshin	9.20 ANA 0.25 ANA	DCC 100 DC
214 227	Ron Phillips Plant Genetics Lectureship	8:30 AM - 9:35 AM	PCC, 122 BC
/	SymposiumNovel and Ancient Crops: Small in Acreage,	9:30 AM - 11:35 AM	PCC 122 A
253	Large in Value CSSA Business MeetingBiomedical, Health-Beneficial and	9.50 AIVI - 11.55 AIVI	PCC, 122 A
200	Nutritionally Enhanced Plants	11:40 AM - 12:10 PM	PCC, 122 A
276	SymposiumNative Crops and Genetic Resources from the Southwest	1:30 PM - 3:30 PM	PCC, 122 A
	ednesday	1.501101-5.501101	1 CC, 122 M
394 394	Symposiumthe Prominent Role of Plant Genetic Resources and		
,,, 1	Genebanks in the Post-Genomic Era	9:30 AM - 11:30 AM	Sheraton, Valley of the
	Schowing in the Lost Scholling Lin	2.50 / 1191 ⁻ 11,50 / 1191	Sun D
	Field-Based Phenotyping in Maricopa-Wednesday	12:30 PM - 4:00 PM	PCC, 3rd St Entrance
200			, era et Entrance
	A Division: Consulting Soil Scientists		
S	inday		
22	SSSA Business MeetingConsulting Soil Scientists	3:00 PM - 5:30 PM	PCC, 227 C
	londay		
Μ			
M 51	Career Path Opportunities for Students, Post-Docs, and Early Career		
	Career Path Opportunities for Students, Post-Docs, and Early Career Members	9:30 AM - 11:00 AM	PCC, Ballroom 120D
	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an	9:30 AM - 11:00 AM	
51	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an Expert Witness	9:30 AM - 11:00 AM 1:30 PM - 4:00 PM	РСС, 227 С
51	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an Expert Witness		
51 114 189	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an Expert Witness	1:30 PM - 4:00 PM	РСС, 227 С
51 114 189	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an Expert Witness SSSA Town Hall Meeting iesday Consulting Soil Scientists Oral	1:30 PM - 4:00 PM	РСС, 227 С
51 114 189 Ti	Career Path Opportunities for Students, Post-Docs, and Early Career Members Symposiumso You Think You're an Expert - Consulting As an Expert Witness SSSA Town Hall Meeting iesday	1:30 PM - 4:00 PM 6:00 PM - 7:30 PM	PCC, 227 C PCC, 224 A

Sı	5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) A Division: Forest, Range and Wildland Soils	3:30 PM - 4:00 PM	PCC, 226 A
51 8 8	A Division: Forest, Range and Wildland Soils	5.501111-4.001111	1 CC, 220 M
Sı M			
, M			
8	Inday		
8	Comet-Farm:Evaluate How Conservation Practices Can Impact the Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	PCC, 227 B
8	onday	0.50 AIVI - 12.50 I IVI	1 CC, 227 D
	Foundations of Ecological Restoration: Recovery of Soil Functions		
6	after Drastic Disturbance Oral	9:30 AM - 12:20 PM	PCC, 132 A
	SymposiumWhat Can Soil Science Contribute to Land Surface Model		
	Development	9:30 AM - 12:00 PM	PCC, 132 B
10	SymposiumSoils and Landscapes of the Southwestern United States	1:25 PM - 3:40 PM	PCC, 132 C
19 45	Forest, Range, and Wildland Soils General Session I Oral 5 Minute RapidForest, Range, and Wildland Soils	1:40 PM - 3:15 PM 3:30 PM - 4:15 PM	PCC, 132 A PCC, 132 A
.45 .72	Forest, Range, and Wildland Soils General Session I Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
73	Foundations of Ecological Restoration: Recovery of Soil Functions		i ee, Exhibit i un ebt
	after Drastic Disturbance Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
89	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
Τı	iesday		
.97	SymposiumClimate Mitigation from Soil - Meeting COP21 Initiative		
	Goals	7:55 AM - 10:00 AM	PCC, 129 A
204	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes	8.00 AM 10.00 AM	PCC 121 A
212	Oral SymposiumQuantifying Uncertainty in Forest Ecosystem Studies	8:00 AM - 10:00 AM 8:15 AM 12:00 PM	РСС, 131 А РСС, 132 В
.12	SymposiumRemote Sensing of Land Surface and Vadose Zone	0.13 Alvi - 12.00 I Ivi	1 CC, 152 D
10	Hydrologic Processes	10:00 AM - 12:15 PM	PCC, 131 A
264	SymposiumCarbonates, Gypsum, Salts, and Dust	1:25 PM - 3:40 PM	PCC, 131 B
272	Forest, Range, and Wildland Soils General Session II Oral	1:30 PM - 3:05 PM	PCC, 132 B
802	SSSA Business MeetingForest, Range, and Wildland Soils	3:15 PM - 4:15 PM	РСС, 132 В
542	Forest, Range, and Wildland Soils General Session II Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
848	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Poster	4:00 DM 6:00 DM	PCC Exhibit Hall CDE
TAT	ednesday	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
67 867	SymposiumDigital Soil Mapping of Forest Soil Properties	8:00 AM - 10:05 AM	PCC, 122 B
572	Soil Organic Matter Cycling As a Key Critical Zone Process	8:00 AM - 11:30 AM	PCC, 123
02	Forest, Range, and Wildland Soils General Session III Oral	10:05 AM - 12:00 PM	PCC, 122 B
37	Sergei A. Wilde Distinguished Lectureship on Forest Soils	1:30 PM - 2:35 PM	PCC, 122 B
60	Digital Soil Mapping of Forest Soil Properties Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
61	Forest, Range, and Wildland Soils General Session III Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
SS/	A Division: Nutrient Management and Soil and Plant Analy	sis	
Μ	onday		
50	<i>S4/S8 Ph.D. Oral Competition</i>	9:25 AM - 4:05 PM	PCC, 129 A
2	S4/S8 M.S. Oral Competition	9:30 AM - 3:20 PM	PCC, 129 B
08 25	Polyhalite Use in Crop Product	1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
.25 .78	S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition	2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
	iesday		- CC,
216	Secondary, Micronutrients, and Animal Waste Oral	9:25 AM - 11:55 AM	PCC, 132 C
215	Soil N Characterization and N Management	9:25 AM - 11:50 AM	PCC, 130
29	SymposiumNitrogen Modeling Programs	9:30 AM - 11:55 AM	PCC, 129 B
.35	The Impact of 4Rs (Source, Rate, Time and Place) on Crop		DCC 100 A
	Yield Oral Concret Nutrient Management Poster	9:50 AM - 2:50 PM	PCC, 132 A
277 278	General Nutrient Management Poster Organic Materials As Nutrient Sources	1:30 PM - 3:30 PM 1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
.78 .89	Gypsum Use in Agriculture Poster	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
.09 814	SSSA Business MeetingNutrient Management and Soil and		
	Plant Analysis	4:00 PM - 5:00 PM	PCC, 129 B
51	Leo M. Walsh Soil Fertility Distinguished Lectureship	5:15 PM - 8:00 PM	PCC, 129 AB
	ednesday		
62	Soil Fertility for Corn, Wheat, and Soybean	7:55 AM - 12:00 PM	PCC, 128 B
878	Fertilizer Management in Minor Acreage Crops Oral	8:25 AM - 11:45 AM	PCC, 127 C
41	Innovations in Soil Testing and Plant Analysis	1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
49	Impacts of 4Rs (Source, Rate, Time and Place) on Crop Performance Poster	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE
			i CC, Exhibit Hall CDE

148	ION NO./TITLE	DATE & TIME	Locatio
	Fertilizer Coatings, Stabilizers and Additives	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE
68	Fertilizer & Lime Responses 1	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
70	Soil Fertility and Plant Nutrition Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
69	Nutrient-Soil Management Interactions	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDF
SS	A Division: Pedology		
	unday		DCC 221 4
.7	Soil Pedology Oral	1:55 PM - 4:30 PM	PCC, 221 A
	londay		Dec 222 C
9	Symposium-Pedology & Earth's Critical Zone	10:25 AM - 11:30 AM	PCC, 232 C
6 48	<i>SymposiumSoils and Landscapes of the Southwestern United States</i> <i>Poster and 5 Minute RapidSoils and Landscapes of the Southwestern</i>	1:25 PM - 3:40 PM	PCC, 132 C
	United States (includes student competition)	3:50 PM - 4:15 PM	PCC, 132 C
	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
	uesday		
99 97	Novel Approaches to Quantify and Combat Soil Degradation SymposiumClimate Mitigation from Soil - Meeting COP21 Initiative	7:55 AM - 12:00 PM	РСС, 227 С
	Goals	7:55 AM - 10:00 AM	PCC, 129 A
04	Remote Sensing of Land Surface and Vadose Zone Hydrologic		
	Processes Oral	8:00 AM - 10:00 AM	PCC, 131 A
11	Fundamental Changes in Soil Taxonomy	8:10 AM - 10:00 AM	РСС, 227 В
40	SymposiumRemote Sensing of Land Surface and Vadose Zone Hydrologic Processes	10:00 AM - 12:15 PM	PCC, 131 A
62	SymposiumSoil Systems - What Are They and Why Are They	10.0071101 12.101101	100,10111
	Important?	1:25 PM - 3:00 PM	PCC, 227 B
64	SymposiumCarbonates, Gypsum, Salts, and Dust	1:25 PM - 3:40 PM	PCC, 131 B
98	Quantitative Pedon Descriptions and Modeling – Digital Soil		
	Morphometrics	2:55 PM - 4:30 PM	PCC, 227 C
44	Soil Pedology Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
48	Remote Sensing of Land Surface and Vadose Zone Hydrologic		
ТА	Processes Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CD
יי 58	/ednesday Advancing Pedology Colloquium	7:00 AM - 8:00 AM	PCC, 126 B
63	New Frontiers of Soil and Plant Sciences: Astropedology and Space	7.00 AW - 0.00 AW	I CC, 120 D
05	Agriculture	7:55 AM - 12:00 PM	PCC, 125 B
72	Soil Organic Matter Cycling As a Key Critical Zone Process	8:00 AM - 11:30 AM	PCC, 123
91	SSSA Business MeetingSoil Pedology	9:30 AM - 11:00 AM	PCC, 126 B
13	Poster and 5 Minute RapidSoil Pedology	11:00 AM - 12:05 PM	PCC, 126 B
64	Soil Pedology Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDI
SSS.	A Division: Soil and Water Management and Conservation		
	unday		
0		7:00 AM - 4:30 PM	PCC, 3rd St Entrance
	Urban Soils-the Desert/City Interface Phoenix	7:00 AM - 4:30 PM 1:30 PM - 4:15 PM	PCC, 3rd St Entrance PCC, 226 B
5	<i>Urban Soils-the Desert/City Interface Phoenix</i> Climate Change Impacts on Soil and Adaptation Strategies Oral	7:00 AM - 4:30 PM 1:30 PM - 4:15 PM 3:00 PM - 5:00 PM	PCC, 226 B
.5 1	<i>Urban Soils-the Desert/City Interface Phoenix</i> Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I	1:30 PM - 4:15 PM	
.5 1 57	Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II	1:30 PM - 4:15 PM	PCC, 226 B
15 21 57	Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM	РСС, 226 В РСС, 225 В РСС, 231 В
15 21 57 70	Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition)	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM	РСС, 226 В РСС, 225 В
5 1 7 7 0	Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A
15 21 07 70 77	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A
15 21 57 70 77	Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A
5 1 7 7 7 7 17	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B
.5 1 77 77 17 .06	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A
5 1 7 0 7 17 06 20	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I I 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B
5 1 7 0 7 17 06 20	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A
5 1 7 0 7 17 06 20 76	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A
5 1 7 0 7 17 06 20 76	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A
5 1 7 0 7 17 06 20 76	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A PCC, 231 A PCC, Exhibit Hall CDI
5 1 7 0 7 17 06 20 76 75	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A PCC, 231 A PCC, Exhibit Hall CDI
5 1 7 0 7 17 06 20 76 75	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) Greenhouse Gas Emissions and Migitation from Managed Lands 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 231 A PCC, 231 A PCC, Exhibit Hall CDI
15 21 70 77 117 106 120 176 175	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) Greenhouse Gas Emissions and Migitation from Managed Lands Poster (includes student competition) 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 232 B PCC, 231 A PCC, Exhibit Hall CDF PCC, Exhibit Hall CDF
25 21 77 70 77 117 006 20 76 76 75	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) Greenhouse Gas Emissions and Migitation from Managed Lands Poster (includes student competition) Developing Research and Extension Skills of Students in Integrated 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 232 B PCC, 231 A PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
5 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) Greenhouse Gas Emissions and Migitation from Managed Lands Poster (includes student competition) Developing Research and Extension Skills of Students in Integrated Agronomic Systems 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B
5 1 7 7 7 17 06 20 76 75 74	 Urban Soils-the Desert/City Interface Phoenix Climate Change Impacts on Soil and Adaptation Strategies Oral Soil and Water Management and Conservation Oral I Ionday Soil and Water Management and Conservation Oral II Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral I (includes student competition) Soil and Water Management Conservation Oral III Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil Management Impacts on Soil Properties and Soil C and N Dynamics Oral II Soil and Water Management and Conservation Poster I (student competition) Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Poster (includes student competition) Greenhouse Gas Emissions and Migitation from Managed Lands Poster (includes student competition) Developing Research and Extension Skills of Students in Integrated 	1:30 PM - 4:15 PM 3:00 PM - 5:00 PM 9:30 AM - 12:10 PM 9:30 AM - 2:30 PM 10:05 AM - 11:55 AM 1:30 PM - 4:30 PM 1:30 PM - 3:30 PM 1:55 PM - 3:45 PM 4:00 PM - 6:00 PM 4:00 PM - 6:00 PM	PCC, 226 B PCC, 225 B PCC, 231 B PCC, 131 A PCC, 231 A PCC, 231 B PCC, 232 B PCC, 232 B PCC, 231 A PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE

	ION NO./TITLE	DATE & TIME	Location
Т	uesday		
197	SymposiumClimate Mitigation from Soil - Meeting COP21		D00 100 1
n 00	Initiative Goals	7:55 AM - 10:00 AM	PCC, 129 A
206	SymposiumSoil Organic Amendments and N Cycling: Strategies to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer Input,		
	Nitrate Leaching, and Nitrous Oxide Emissions	8:00 AM - 11:00 AM	PCC, 131 B
234	SymposiumCrop Modeling and Plant Breeding: Intersecting		100,1010
	Disciplines for a Resilient Agriculture	9:45 AM - 11:35 AM	PCC, 122 BC
241	Greenhouse Gas Emissions and Migitation from Lands Oral		
	(includes student competition)	10:10 AM - 2:30 PM	PCC, 128 B
258	SymposiumAdapting Cropping Systems to Drought & Water Scarcity	1:00 PM - 4:50 PM	PCC, 124 B
297	Quantifying and Predicting Soil Ecosystem Services for Water,	2.55 DM 4.00 DM	DCC 129 P
343	Food, Energy and Environmental Security Oral Soil Management Impacts on Soil Properties and Soil C and N	2:55 PM - 4:00 PM	PCC, 128 B
949	Dynamics Poster I (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
V	Vednesday		1 00, 2,000 1000 02 2
363	New Frontiers of Soil and Plant Sciences: Astropedology and Space		
	Agriculture	7:55 AM - 12:00 PM	PCC, 125 B
381	Soil and Water Managment and Conservation Oral IV	8:30 AM - 11:50 AM	PCC, 127 A
106	Soil Management Impacts on Soil Properties and Soil C and N		
20	Dynamics Oral III	10:25 AM - 12:00 PM	РСС, 127 В
436	SSSA Business Meeting Soil and Water Management and Conservation	1:30 PM - 2:30 PM	PCC, 127 B
138	Water and Soil Microbial Populations Affected By Wastewater,	1.50 1 101 - 2.50 1 101	1 CC, 127 D
	Biosolids, and Manure	1:30 PM - 2:40 PM	PCC, 128 B
162	Soil and Water Management and Conservation Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
163	Soil Management Impacts on Soil Properties and Soil C and N		
	Dynamics Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
SSS	A Division: Soil Biology and Biochemistry		
S	unday		
20	SymposiumEnabling Fiber Productivity Increases through		
	Multi-Disciplinary Innovations	3:00 PM - 4:50 PM	PCC, 221 B
\mathbf{N}	Ionday		
52	Microbial Diversity of Oligotrophic Environments: Strategies,		
	Processes, and Functions Oral	9:30 AM - 11:30 AM	PCC, 131 C
54	Soil Health in Agroecosystems/Rangelands Oral	9:30 AM - 12:00 PM	РСС, 131 В
58	Foundations of Ecological Restoration: Recovery of Soil Functions after Drastic Disturbance Oral	9:30 AM - 12:20 PM	PCC, 132 A
118	SymposiumUnearthing the Role of Global Soil Biodiversity in	7.507 HVI 12.201 IVI	100,10211
	Ecosystems	1:30 PM - 4:45 PM	PCC, 131 C
177	Soil Biology and Biochemistry Poster I		
	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
173	Foundations of Ecological Restoration: Recovery of Soil Functions after		
00	Drastic Disturbance Poster	4:00 PM - 6:00 PM 6:00 PM - 7:30 PM	PCC, Exhibit Hall CDE
189 T	SSSA Town Hall Meeting uesday	0.001101-7.301101	PCC, 224 A
197	SymposiumClimate Mitigation from Soil - Meeting COP21 Initiative		
	Goals	7:55 AM - 10:00 AM	PCC, 129 A
209	Soil Biology and Biochemistry Oral	8:00 AM - 3:10 PM	PCC, 131 C
206	SymposiumSoil Organic Amendments and N Cycling: Strategies		
	to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer		
	Input, Nitrate Leaching, and Nitrous Oxide Emissions	8:00 AM - 11:00 AM	PCC, 131 B
236	SymposiumSoils and Microbial Communities in Newly Formed and	0.55 AM 11.20 AM	DCC 125 P
280	Heavily Disturbed Wetland Environments Symposiumthe Rhizosphere	9:55 AM - 11:30 AM 1:30 PM - 3:40 PM	PCC, 125 B PCC, 129 AB
.00 846	Soil Health in Agroecosystems/Rangelands Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
45	Microbial Diversity of Oligotrophic Environments: Strategies,		,
	Processes, and Functions Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Animal Agriculture & the Environment (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Vednesday		
72	Soil Organic Matter Cycling As a Key Critical Zone Process	8:00 AM - 11:30 AM	PCC, 123
368	Resiliency in Soil Microbial Communities Oral - Stress Responses	8.00 ANA 10.20 ANA	PCC 122 C
382	& Hot Spots Physical, Chemical and Biological Processes Controlling Transport and	8:00 AM - 10:30 AM	PCC, 122 C
,04	Remediation of Emerging Contaminants in Soils Oral		
	(includes student competition)	8:35 AM - 2:30 PM	PCC, 125 A
	,		

	ION NO./TITLE	DATE & TIME	LOCATION
442 438	Francis E. Clark Distinguished Lectureship on Soil Biology Water and Soil Microbial Populations Affected By Wastewater, Biosolids,	1:30 PM - 3:30 PM	PCC, 124 A
	and Manure	1:30 PM - 2:40 PM	PCC, 128 B
66	Soil Biology and Biochemistry Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
65	Resiliency in Soil Microbial Communities Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
172	Physical, Chemical, and Biological Processes Controlling Transport and	2.001101 1.001101	
	Remediation of Emerging Contaminants in Soils Poster	2.20 DM 4.20 DM	DCC Exhibit Hall CDE
	(includes student competition)	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
	SSSA Business MeetingSoil Biology and Biochemistry	3:30 PM - 4:30 PM	PCC, 124 A
_	A Division: Soil Chemistry		
	Ionday	0.20 ANA 12.00 DM	DCC 120
58	Symposium100th Anniversary of the Langmuir Equation, 1916-2016	9:20 AM - 12:00 PM	PCC, 130
38	Langmuir's World (Video)	12:00 PM - 4:30 PM	PCC, 130
	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
	uesday		
200	Soil Chemistry Oral	7:55 AM - 12:00 PM	PCC, 225 A
228	Impacts of Soil and Water Pollution on Food Safety Oral		
	(includes student competition)	9:30 AM - 11:50 AM	PCC, 228 B
269	Soil Chemistry Oral II	1:30 PM - 2:50 PM	PCC, 225 A
.83	SymposiumImpacts of Soil and Water Pollution on Food Safety	1:30 PM - 3:50 PM	PCC, 228 B
.99	SSSA Business MeetingSoil Chemistry	3:00 PM - 4:00 PM	PCC, 225 A
849	Impacts of Soil and Water Pollution on Food Safety Poster		
	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
И	Vednesday		
372	Soil Organic Matter Cycling As a Key Critical Zone Process	8:00 AM - 11:30 AM	PCC, 123
382	Physical, Chemical and Biological Processes Controlling Transport and	0.007 111 - 11.007 111	1 CC, 125
02			
	Remediation of Emerging Contaminants in Soils Oral	9.2E A.M. 2.20 D.M	DCC 12E A
140	(includes student competition)	8:35 AM - 2:30 PM	PCC, 125 A
46	5 Minute RapidSoil Chemistry	2:00 PM - 2:30 PM	РСС, 225 В
67	Soil Chemistry Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
ł72	Physical, Chemical, and Biological Processes Controlling Transport and		
	Remediation of Emerging Contaminants in Soils Poster		
	(includes student competition)	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
_	A Division: Soil Education and Outreach		
	Ionday SSSA Tourn Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
	SSSA Town Hall Meeting	0.001101-7.301101	TCC, 224 A
	uesday		
	Soil Education & Outreach Oral	8:00 AM - 9:45 AM	PCC, 231 B
	SSSA Business MeetingSoil Education & Outreach	10:00 AM - 11:30 AM	PCC, 231 B
266	Poster and 5 Minute RapidSoil Education & Outreach	1:30 PM - 2:00 PM	PCC, 231 B
347			
	Soil Education & Outreach Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
SSS.	Soil Education & Outreach Poster A Division: Soil Fertility and Plant Nutrition	4:00 PM - 6:00 PM	
	A Division: Soil Fertility and Plant Nutrition unday		PCC, Exhibit Hall CDE
S	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona	4:00 PM - 6:00 PM 8:00 AM - 2:00 PM	
Sı M	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday	8:00 AM - 2:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance
S1 58	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130
S1 M 58 50	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A
S1 58 50 72	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B
S1 58 50 72 71	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A
S1 58 50 72 71	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B
S1 58 50 72 71 70	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition)	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A
S1 58 50 72 71 70	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B
Si 58 50 72 71 70 38	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video)	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A
S1 58 50 72 71 70 58 108	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE
S1 58 50 72 71 70 88 108 125	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
S1 58 50 72 71 70 38 108 125 178	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
S1 58 50 72 71 70 38 108 125 178	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition Fertilizer and Water Management Effects on the Soil Environment	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
S1 M 58 50 72 71 70 58 108 125 178 182	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition Fertilizer and Water Management Effects on the Soil Environment Poster (includes student competition)	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
Si 58 50 72 71 70 88 108 125 178 182	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Ph.D. Poster Competition Fertilizer and Water Management Effects on the Soil Environment Poster (includes student competition) SSSA Town Hall Meeting	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
Si M 58 50 72 71 70 88 108 125 178 182 182 189 Tr	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Ionday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Ph.D. Poster Competition Fertilizer and Water Management Effects on the Soil Environment Poster (includes student competition) SSSA Town Hall Meeting uesday	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
Si M 58 60 72 71 70 88 108 125 178 182 189 Ti	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Jonday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Ph.D. Poster Competition Fertilizer and Water Management Effects on the Soil Environment Poster (includes student competition) SSSA Town Hall Meeting uesday SymposiumSoil Organic Amendments and N Cycling: Strategies to	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
Si M 58 60 72 71 70 88 108 125 178 182 189 Ti	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Jonday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S5SA Town Hall Meeting uesday SymposiumSoil Organic Amendments and N Cycling: Strategies to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer Input,	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM 6:00 PM - 7:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
S1 M 58 60 72 71 70 88 108 125 178 182 189 189 189 71 206	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Jonday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Ph.D. Poster Competition S4/S8 Town Hall Meeting uesday SymposiumSoil Organic Amendments and N Cycling: Strategies to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer Input, Nitrate Leaching, and Nitrous Oxide Emissions	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:20 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM 4:00 PM - 6:00 PM 6:00 PM - 7:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, 224 A
S1 58 60 72 71 70 88 108 125 178 182 189	A Division: Soil Fertility and Plant Nutrition unday Irrigation and Cropping Systems of Central Arizona Jonday Symposium100th Anniversary of the Langmuir Equation, 1916-2016 S4/S8 Ph.D. Oral Competition S4/S8 M.S. Oral Competition Soil Fertility and Plant Nutrition Oral Fertilizer and Water Management Effects on the Soil Environment Oral (includes student competition) Langmuir's World (Video) Polyhalite Use in Crop Product S4/S8 M.S. Poster Competition S4/S8 Ph.D. Poster Competition S5SA Town Hall Meeting uesday SymposiumSoil Organic Amendments and N Cycling: Strategies to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer Input,	8:00 AM - 2:00 PM 9:20 AM - 12:00 PM 9:25 AM - 4:05 PM 9:30 AM - 3:20 PM 9:30 AM - 3:00 PM 9:30 AM - 2:30 PM 12:00 PM - 4:30 PM 1:30 PM - 3:30 PM 2:00 PM - 4:00 PM 4:00 PM - 6:00 PM 6:00 PM - 7:30 PM	PCC, Exhibit Hall CDE PCC, 3rd St Entrance PCC, 130 PCC, 129 A PCC, 129 B PCC, 128 B PCC, 131 A PCC, 130 PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE

	Cosponsored sessions are in	chunca in nance.	
SESS	ION NO./TITLE	DATE & TIME	LOCATION
229	SymposiumNitrogen Modeling Programs	9:30 AM - 11:55 AM	РСС, 129 В
235	The Impact of 4Rs (Source, Rate, Time and Place) on Crop Yield Oral	9:50 AM - 2:50 PM	PCC, 132 A
280	Symposiumthe Rhizosphere	1:30 PM - 3:40 PM	PCC, 129 AB
271	Manure Management: Maximizing Plant Production and Nutrient Use		,
	Efficiency	1:30 PM - 3:05 PM	PCC, 125 A
277	General Nutrient Management Poster	1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
278	Organic Materials As Nutrient Sources	1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
289	Gypsum Use in Agriculture Poster	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE
315	SSSA Business MeetingSoil Fertility and Plant Nutrition	4:00 PM - 5:00 PM	PCC, 129 AB
351	Leo M. Walsh Soil Fertility Distinguished Lectureship	5:15 PM - 8:00 PM	PCC, 129 AB
	Vednesday	5.151 1 1 - 0.001 1	1 CC, 127 AD
362		7.55 AM 12.00 DM	PCC, 128 B
	Soil Fertility for Corn, Wheat, and Soybean	7:55 AM - 12:00 PM	
377	Soil Health	8:10 AM - 11:45 AM	PCC, 128 A
378	Fertilizer Management in Minor Acreage Crops Oral	8:25 AM - 11:45 AM	PCC, 127 C
441	Innovations in Soil Testing and Plant Analysis	1:30 PM - 3:30 PM	PCC, Exhibit Hall CDE
449	Impacts of 4Rs (Source, Rate, Time and Place) on Crop		
	Performance Poster	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE
448	Fertilizer Coatings, Stabilizers and Additives	2:00 PM - 4:00 PM	PCC, Exhibit Hall CDE
470	Soil Fertility and Plant Nutrition Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
469	Nutrient-Soil Management Interactions	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
468	Fertilizer & Lime Responses 1	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
SSS	A Division: Soil Mineralogy		
	Ionday		
96	SymposiumSoils and Landscapes of the Southwestern		
	United States	1:25 PM - 3:40 PM	PCC, 132 C
148	Poster and 5 Minute RapidSoils and Landscapes of the		
	Southwestern United States (includes student competition)	3:50 PM - 4:15 PM	PCC, 132 C
186	Soil Mineralogy Poster	4:15 PM - 6:00 PM	PCC, Exhibit Hall CDE
189	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
T	uesday		
213	Soil Mineralogy Oral	8:25 AM - 9:15 AM	PCC, 126 B
264	SymposiumCarbonates, Gypsum, Salts, and Dust	1:25 PM - 3:40 PM	PCC, 131 B
355		6:10 PM - 7:30 PM	PCC, 221 C
	/ednesday		,
363	New Frontiers of Soil and Plant Sciences: Astropedology and Space		
000	Agriculture	7:55 AM - 12:00 PM	PCC, 125 B
372	Soil Organic Matter Cycling As a Key Critical Zone Process	8:00 AM - 11:30 AM	PCC, 123
		0.007107 11.007107	100,120
555	A Division: Soil Physics and Hydrology		
\mathbf{N}	Ionday		
65	Advances in Soil Sensing and Model Integration with		
	Instrumentation Oral	9:30 AM - 12:00 PM	PCC, 132 C
66	SymposiumWhat Can Soil Science Contribute to Land Surface	,	100,1020
00	Model Development	9:30 AM - 12:00 PM	PCC, 132 B
116	5 Minute RapidSoil Physics and Hydrology Student	9.807 HVI 12.001 WI	1020
110	Competition (Includes Poster Session)	1:30 PM - 4:15 PM	PCC, 132 B
111	SymposiumEvolution of Biophysical Measurements: Legacy of the	1.501111-4.151111	1 CC, 102 D
111		1.20 DM 2.55 DM	PCC, 231 C
170	US Water Conservation Lab and Advances in Rapid Phenotyping Advances in Soil Sensing and Model Integration with	1:30 PM - 3:55 PM	1 CC, 251 C
179		4.00 DM 6.00 DM	DCC Exhibit Hall CDE
100	Instrumentation Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
180	Soil Physics & Hydrology Poster I (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
189	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
	uesday		
204	Remote Sensing of Land Surface and Vadose Zone Hydrologic		
	Processes Oral	8:00 AM - 10:00 AM	PCC, 131 A
232	SymposiumPartitioning of Evapotranspiration: Instrumentation and		
	Simulation	9:30 AM - 12:15 PM	PCC, 126 A
240	SymposiumRemote Sensing of Land Surface and Vadose Zone		
	Hydrologic Processes	10:00 AM - 12:15 PM	PCC, 131 A
286	Modeling Energy and Mass Transfer Processes at the		,
	Soil-Atmospheric Interface Oral	1:30 PM - 4:20 PM	PCC, 127 B
287	Soil Physics and Hydrology Oral I	1:30 PM - 4:20 PM	PCC, 127 A
281	Evapotranspiration Measurements and Modeling Oral	1.001111 1.201111	1 00, 127 11
201	(includes student competition)	1:30 PM - 3:45 PM	PCC, 126 A
3/19		1.00 1 101 - 0.40 1 101	1 CC, 120 A
348	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Poster	4:00 PM - 6:00 PM	PCC Exhibit Hall CDE
	110(65565105161	т.001 IVI - 0.001 IVI	PCC, Exhibit Hall CDE

	ION NO./TITLE	DATE & TIME	LOCATION
322	Evapotranspiration Measurements and Modeling Poster		
	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	Vednesday		
361	SymposiumHonoring the Contributions of Laj Ahuja: Building Bridges Among Disciplines By Synthesizing and Quantifying Soil		
363	and Plant Processes for Whole Systems Modeling New Frontiers of Soil and Plant Sciences: Astropedology and	7:30 AM - 10:45 AM	РСС, 227 С
382	Space Agriculture Physical, Chemical and Biological Processes Controlling Transport and Remediation of Emerging Contaminants in Soils Oral	7:55 AM - 12:00 PM	РСС, 125 В
09	(includes student competition) Honoring the Contributions of Laj Ahuja: Building Bridges Among Disciplines by Synthesizing and Quantifying Soil and Plant	8:35 AM - 2:30 PM	РСС, 125 А
	Processes for Whole Systems Modeling Oral	10:55 AM - 2:30 PM	PCC, 227 C
14	SSSA Business Meeting/LuncheonSoil Physics and Hydrology	11:00 AM - 1:00 PM	PCC, 129 AB
31	Soil Physics and Hydrology Oral II	1:25 PM - 2:30 PM	PCC, 125 B
71	Soil Physics and Hydrology Poster II	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
172	Physical, Chemical, and Biological Processes Controlling Transport and Remediation of Emerging Contaminants in Soils Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
	(includes student competition)	2.30 1 101 - 4.30 1 101	r CC, Exhibit Hall CDE
155	Honoring the Contributions of Laj Ahuja: Building Bridges Among Disciplines By Synthesizing and Quantifying Soil and Plant Processes for Whole Systems Modeling Poster	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE
200	A Division: Soils and Environmental Quality		
	- 2		
S	unday		
N	Comet-Farm:Evaluate How Conservation Practices Can Impact the Carbon Footprint of Agriculture and Forestry.	8:30 AM - 12:30 PM	РСС, 227 В
8 0	londay <i>Symposium100th Anniversary of the Langmuir Equation, 1916-2016</i> Fertilizer and Water Management Effects on the Soil Environment	9:20 AM - 12:00 PM	PCC, 130
58	Oral (includes student competition) Foundations of Ecological Restoration: Recovery of Soil Functions after	9:30 AM - 2:30 PM	PCC, 131 A
88	Drastic Disturbance Oral Langmuir's World (Video)	9:30 AM - 12:20 PM 12:00 PM - 4:30 PM	PCC, 132 A PCC, 130
.01	Environmental Fate, Transport, and Monitoring of Pesticides (includes student competition)	1:30 PM - 3:05 PM	PCC, 131 B
106	Symposiumthe Grand Challenge – Water: Food, Energy and Environmental Security	1:30 PM - 3:30 PM	PCC, 232 B
41	Poster and 5 Minute RapidEnvironmental Fate, Transport, and Monitoring of Pesticides Poster (includes student competition)	3:20 PM - 3:50 PM	PCC, 131 B
82	Fertilizer and Water Management Effects on the Soil Environment Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
81	Dynamics of Pollutant Transport Beneath Onsite Wastewater Systems Poster (includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
83	Soils and Environmental Quality Poster I	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
73	Foundations of Ecological Restoration: Recovery of Soil Functions after		
00	Drastic Disturbance Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
.89	SSSA Town Hall Meeting	6:00 PM - 7:30 PM	PCC, 224 A
.97	uesday SymposiumClimate Mitigation from Soil - Meeting COP21 Initiative		
	Goals	7:55 AM - 10:00 AM	PCC, 129 A
99	Novel Approaches to Quantify and Combat Soil Degradation	7:55 AM - 12:00 PM	PCC, 227 C
205	Soils and Environmental Quality Oral I	8:00 AM - 10:35 AM	PCC, 228 A
04	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Oral	8:00 AM - 10:00 AM	PCC, 131 A
28	Impacts of Soil and Water Pollution on Food Safety Oral (includes student competition)	9:30 AM - 11:50 AM	РСС, 228 В
240	SymposiumRemote Sensing of Land Surface and Vadose Zone Hydrologic Processes	10:00 AM - 12:15 PM	PCC, 131 A
283 274	SymposiumImpacts of Soil and Water Pollution on Food Safety SymposiumManufactured, Blended, and Engineered Soils for Urban	1:30 PM - 3:50 PM	PCC, 228 B
349	Applications Impacts of Soil and Water Pollution on Food Safety Poster	1:30 PM - 3:15 PM	PCC, 124 A
	(includes student competition)	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
350	Soils and Environmental Quality Poster II	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE

	ION NO./TITLE	DATE & TIME	LOCATION
348	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	SSSA Business MeetingSoils and Environmental Quality Vednesday	6:10 PM - 7:30 PM	PCC, 228 B
	Soils and Environmental Quality Oral II SymposiumMinimizing Phosphorus Losses during the	8:00 AM - 11:20 AM	PCC, 126C
82	Non-Growing Season Physical, Chemical and Biological Processes Controlling	8:00 AM - 12:15 PM	PCC, 124 A
72	Transport and Remediation of Emerging Contaminants in Soils Oral (includes student competition) Physical, Chemical, and Biological Processes Controlling	8:35 AM - 2:30 PM	PCC, 125 A
73	Transport and Remediation of Emerging Contaminants in Soils Poster (includes student competition) Soils and Environmental Quality Poster III	2:30 PM - 4:30 PM 2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
SS	A Division: Urban and Anthropogenic Soils		
S	unday		
	Urban Soils-the Desert/City Interface Phoenix	7:00 AM - 4:30 PM	PCC, 3rd St Entrance
101 19 104	londay Urban & Anthropogenic Soils Oral (includes student competition) SymposiumOptimizing Ecosystem Services of Urban Soils:	9:30 AM - 12:20 PM	PCC, 126C
	Our Current State of the Science Urban and Anthropogenic Soils Poster	1:30 PM - 3:20 PM	PCC, 126C
89	(includes student competition) SSSA Town Hall Meeting	4:00 PM - 6:00 PM 6:00 PM - 7:30 PM	PCC, Exhibit Hall CDE PCC, 224 A
40	uesday SymposiumRemote Sensing of Land Surface and Vadose Zone		
40 74	<i>Hydrologic Processes</i> SymposiumManufactured, Blended, and Engineered Soils for	10:00 AM - 12:15 PM	PCC, 131 A
	Urban Applications	1:30 PM - 3:15 PM	PCC, 124 A
06 16	5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in? (includes student competition) SSSA Business MeetingUrban and Anthropogenic Soils	3:30 PM - 4:00 PM 4:00 PM - 5:00 PM	PCC, 226 A PCC, 226 A
10 48	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
N	Vednesday		
	Urban Soil Restoration and Rehabilitation Oral (includes student competition)	9:00 AM - 10:50 AM	PCC, 130
11	Water Quality in Urbanizing Watersheds Oral (includes student competition)	11:00 AM - 11:50 AM	PCC, 130
SSS.	A Division: Wetland Soils		
S	unday		
M	Urban Soils-the Desert/City Interface Phoenix Ionday	7:00 AM - 4:30 PM	PCC, 3rd St Entrance
8	Foundations of Ecological Restoration: Recovery of Soil Functions after Drastic Disturbance Oral	9:30 AM - 12:20 PM	PCC, 132 A
9 9	SymposiumPedology & Earth's Critical Zone COP21 and Wetland Soils As Greenhouse Gas Sources and Sinks Oral	10:25 AM - 11:30 AM	PCC, 232 C
14	Symposiumso You Think You're an Expert - Consulting As an Expert Witness	1:30 PM - 2:35 PM 1:30 PM - 4:00 PM	РСС, 226 В РСС, 227 С
73	Foundations of Ecological Restoration: Recovery of Soil Functions after Drastic Disturbance Poster	4:00 PM - 6:00 PM	PCC, Exhibit Hall CDE
	SSSA Town Hall Meeting uesday	6:00 PM - 7:30 PM	PCC, 224 A
97	SymposiumClimate Mitigation from Soil - Meeting COP21 Initiative Goals	7:55 AM - 10:00 AM	PCC, 129 A
	SymposiumSoils and Microbial Communities in Newly Formed Heavily Disturbed Wetland Environments	9:55 AM - 11:30 AM	PCC, 125 B
74 93	SymposiumManufactured, Blended, and Engineered Soils for Urban Applications William H. Patrick, Jr. Memorial Lectureship	1:30 PM - 3:15 PM 2:15 PM - 6:00 PM	PCC, 124 A PCC, 125 B
07 06	SSSA Business MeetingWetland Soils 5 Minute Rapid: Stormwater ManagementWhere Do Soils Fit in?	3:30 PM - 4:30 PM	PCC, 125 B
	(includes student competition)	3:30 PM - 4:00 PM	PCC, 226 A

	Cosponsored sessions are identified in <i>italic</i> .				
Sessio	N NO./TITLE	DATE & TIME	LOCATION		
	lnesday				
372 S 386 G	oil Organic Matter Cycling As a Key Critical Zone Process General Wetland Soils Oral	8:00 AM - 11:30 AM	PCC, 123		
	(Includes Graduate Student Competition)	9:00 AM - 10:55 AM	PCC, 126 A		
474 G	General Wetland Soils Poster I	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE		
475 G	General Wetland Soils Poster II (includes student competition)	2:30 PM - 4:30 PM	PCC, Exhibit Hall CDE		
	ation Tours				
Sun	day				
	edona, Arizona	7:30 AM - 4:00 PM	PCC, 3rd St Entrance		
Mo	nday				
	Discover Phoenix & Scottsdale-Monday	9:00 AM - 12:00 PM	PCC, 3rd St Entrance		
	sday		,		
	aliesin West and Carefree, AZ	9:00 AM - 1:30 PM	PCC, 3rd St Entrance		
	dnesday	2.001101 1.001101	i ee, ord or Endance		
	Desert Botanical Gardens	9:00 AM - 12:00 PM	PCC, 3rd St Entrance		
L	vesert Dotanical Gardens	9.00 AIVI - 12.00 I IVI	i ee, sid st Entrance		
Tours					
Sun	ıday				
	tiegler Fellowship Golf Fundraiser	6:30 AM - 1:00 PM	PCC, 3rd St Entrance		
	Jrban Soils-the Desert/City Interface Phoenix	7:00 AM - 4:30 PM	PCC, 3rd St Entrance		
	iosphere 2	8:00 AM - 3:30 PM	PCC, 3rd St Entrance		
	rrigation and Cropping Systems of Central Arizona	8:00 AM - 2:00 PM	PCC, 3rd St Entrance		
F	ield-Based Phenotying in Maricopa-Sunday	11:00 AM - 4:00 PM	PCC, 3rd St Entrance		
	dnesday		,		
	ield-Based Phenotyping in Maricopa-Wednesday	12:30 PM - 4:00 PM	PCC, 3rd St Entrance		
<u>Works</u>	hops				
Sun	lday				
	Comet-Farm:Evaluate How Conservation Practices Can Impact				
	the Carbon Footprint of Agriculture and Forestry	8:30 AM - 12:30 PM	PCC, 227 B		
Ir	ntroduction to JMP Software	8:30 AM - 11:30 AM	PCC, 227 A		
U	Julizing the GAPIT R Package to Facilitate Analysis of Diversity		,		
0	Panels	9:00 AM - 11:00 AM	PCC, 228 A		
Ν	Iechanical Measurements of Crops and Soils: Principles and		,		
	Techniques	10:00 AM - 12:00 PM	Sheraton, Maryvale B		
Ir	ntro to Multivariate Analysis	1:00 PM - 5:00 PM	PCC, 227 B		
	Advanced Techniques in JMP Software	1:30 PM - 4:30 PM	PCC, 227 A		
	nday		,		
	oundations Yoga (beginner's class)	6:30 AM - 7:30 AM	Sheraton, Camelback AB		
	mplementing Genomic Selection in Plant Breeding Programs	8:00 AM - 12:00 PM	PCC, 227 A		
E	lemental Analysis Solutions for Farm-to-Table Safety, Quality	0.007101 12.001101	100,227 11		
L	and Sustainability	9:00 AM - 12:00 PM	PCC, 227 B		
Ν	Iake a Compelling Science Message: I	9:30 AM - 11:30 AM	Sheraton, Maryvale B		
	Generation Image – Photography 101 for Communicating Lab	2.5071101 11.5071101	Siteratori, iviary vale D		
C	Research: I	1:00 PM - 3:00 PM	Sheraton, Maryvale B		
T 110	sday	1.001101-0.001101	Siteratori, Iviary vale D		
	Judy Jrban Flow Yoga (intermediate-advanced class)	6:30 AM - 7:30 AM	Sheraton, Camelback AF		
		0.50 AIVI - 7.50 AIVI	Sheraton, Camerback Al		
Ċ	Generation Image – Photography 101 for Communicating Lab Research: II	9:30 AM - 11:30 AM	Shoraton Marriala B		
N			Sheraton, Maryvale B		
	Aake a Compelling Science Message: II	1:00 PM - 3:00 PM	Sheraton, Maryvale B		
	Vomen in Science Workshop on Leadership/Reception (ACS526)	1:30 PM - 4:15 PM	PCC, 229 AB		
	dnesday	0.00 434 11.00 434			
IV	Iake a Compelling Science Message: III	9:00 AM - 11:00 AM	Sheraton, Maryvale B		
Exhibi	t Hall Activities				
Sun	lday				
	xhibits & Career Center Open	7:00 PM - 9:00 PM	PCC, Exhibit Hall CDE,		
			Career Center		
C	Graduate School Forum	7:00 PM - 9:00 PM	PCC, Exhibit Hall CDE		
	Velcome Reception	7:00 PM - 9:00 PM	PCC, Exhibit Hall CDE		
	nday				
Mo	xtension Materials on Display I	7:00 AM - 6:00 PM	PCC, Exhibit Hall CDE		
Mor 32 E	xtension Materials on Display I Graduate School Forum	7:00 AM - 6:00 PM 9:00 AM - 6:00 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE		
Mor 32 E	xtension Materials on Display I				

	Cosponsored sessions are ide	entified in <i>italic</i> .	
Sess	ION NO./TITLE	DATE & TIME	LOCATION
84	Freezerworks - Sample Management Software for Quality Assurance in Crop Science	11:00 AM - 12:00 PM	PCC, Exhibit Hall CDE, Demonstration Stage
89	Gasmet Technologies - Simultaneous measurement of N2O, CH4, CO2 and Ammonia in soil flux measurements using field	10 20 DV 6 1 20 DV 6	
122	portable FTIR gas analyzers. METER Presents	12:30 PM - 1:30 PM 2:00 PM - 3:00 PM	PCC, Exhibit Hall CDE, Demonstration Stage PCC, Exhibit Hall CDE,
137	Career Fair	3:00 PM - 6:00 PM	Demonstration Stage PCC, Exhibit Hall CDE,
146	ACSESS—Your Society Publisher, Your science lives here!	3:30 PM - 4:30 PM	Career Center PCC, Exhibit Hall CDE,
			Demonstration Stage
	uesday		
194	Extension Materials on Display II Exhibits & Career Center Open	7:00 AM - 6:00 PM 9:00 AM - 6:00 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE, Career Center
238	Graduate School Forum Bruker - Portable Elemental Analysis for Agriculture, Food Safety	9:00 AM - 6:00 PM	PCC, Exhibit Hall CDE
	& Quality	10:00 AM - 11:00 AM	PCC, Exhibit Hall CDE, Demonstration Stage
250	Irrometer Company, Inc Understanding Soil Moisture Sensor Data to Maximize Water Use Efficiency	11:30 AM - 12:30 PM	PCC, Exhibit Hall CDE, Demonstration Stage
257	Delta-T - Using the DeltaLINK weather simulator to develop GP2 Data Logger applications and refine experimental methods	1:00 PM - 2:00 PM	PCC, Exhibit Hall CDE,
294	MicaSense - Remote Sensing Solutions for Precision Agriculture	2:30 PM - 3:30 PM	Demonstration Stage PCC, Exhibit Hall CDE, Demonstration Stage
313	Daiki Rika Kogyo Co., Ltd NEW iTensiometer & iPenetrometer	4:00 PM - 5:00 PM	PCC, Exhibit Hall CDE, Demonstration Stage
V	/ednesday		
360	Extension Materials on Display III	7:00 AM - 4:30 PM	PCC, Exhibit Hall CDE
	Graduate School Forum Exhibits & Career Center Open	9:00 AM - 4:30 PM 9:00 AM - 4:30 PM	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE, Career Center
401	Steven's Water Monitoring - Soil Monitoring With Stevens Hydra Probe Soil Sensor, Meeting the Challenges of new Applications	10:00 AM - 11:00 AM	PCC, Exhibit Hall CDE, Demonstration Stage
423	CID Bio-Science, Inc Applications for Root Imaging in Agriculture	11:30 AM - 12:30 PM	PCC, Exhibit Hall CDE,
430	USDA-NRCS - Using Web Soil Survey	1:00 PM - 2:00 PM	Demonstration Stage PCC, Exhibit Hall CDE,
450	Davis Instruments - Advances in Agricultural Data to the Farmer's Advantage	2:30 PM - 3:30 PM	Demonstration Stage PCC, Exhibit Hall CDE, Demonstration Stage
Live	Streaming CEU Program		
	Ionday		
44	SymposiumIPM Resistance Management as related to CCA specialty certification exam prep	8:00 AM - 12:00 PM	PCC, 121 AB
93	SymposiumNutrient Management as related to CCA specialty certification exam prep	1:00 PM - 5:00 PM	РСС, 121 АВ
T 207	uesday SymposiumCrop Management as related to CCA specialty certification exam prep	8:00 AM - 12:00 PM	РСС, 121 АВ
259	SymposiumSoil and Water Management as related to CCA specialty certification exam prep	1:00 PM - 5:00 PM	РСС, 121 АВ
V 376	/ednesday SymposiumSustainable Agronomic Practices	8:00 AM - 5:00 PM	РСС, 121 АВ
	- · · · · · · · · · · · · · · · · · · ·		

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Schedule by Date

No.	Тіме	Session Title	LOCATION
Frid	ay		
1	5:00 PM - 9:00 PM	SASES Registration	PCC, Registration Center
2	7:00 PM - 7:55 PM	SASES National Officer Meeting	PCC, Registration Center
3	8:00 PM - 9:00 PM	SASES Committee Member Meeting	PCC, Registration Center
<u>Satu</u>	rday		
4	6:00 AM - 7:30 AM	SASES Registration II	PCC, Registration Center
5	7:30 AM - 6:00 PM	SASES Tours	PCC, Third Street Entrance
	8:00 AM - 5:00 PM	W3128 Scaling Microirrigation Technologies to Address the Global	Urrett Ellie
6	10:00 AM - 5:00 PM	Water Challenge Graduate Student Leadership Conference	Hyatt, Ellis PCC, 229 AB
0	1:00 PM - 4:00 PM	ACSESS Board of Directors Meeting	Sheraton, Deer Valley
	4:00 PM - 6:30 PM	Soil Science Certifying Board	Hyatt, Moran
7	7:00 PM - 8:30 PM	Presidents Trophy Competition	PCC, 224 AB
8	8:30 PM - 9:30 PM	SASES Business Meeting I	PCC, 224 AB
9	10:00 PM - 11:55 PM		Hyatt, Regency Ballroom
	101001111 11001111		ABCD
<u>Sun</u>	day		
	6:30 AM - 1:00 PM	Stiegler Fellowship Golf Fundraiser	PCC, Third Street Entrance
	7:00 AM - 7:30 AM	Moderator Training I	PCC, 221 C
	7:00 AM - 4:30 PM	Urban Soils-the Desert/City Interface Phoenix	PCC, Third Street Entrance
10	7:30 AM - 9:00 AM	SASES Registration: III	PCC, Registration Center
	7:30 AM - 4:00 PM	Sedona, Arizona	PCC, Third Street Entrance
	8:00 AM - 11:00 AM	SSSA Board of Directors Meeting	Sheraton, Deer Valley
	8:00 AM - 2:00 PM	Irrigation and Cropping Systems of Central Arizona	PCC, Third Street Entrance
	8:00 AM - 2:00 PM	ARS-Grand Challenges	Sheraton, Laveen A
	8:00 AM - 3:30 PM	Biosphere 2	PCC, Third Street Entrance
	8:30 AM - 11:30 AM	Introduction to JMP Software	PCC, 227 A
	8:30 AM - 12:30 PM	Comet-Farm:Evaluate How Conservation Practices Can Impact the	DCC 005 D
11	0.00 ANA 10.20 ANA	Carbon Footprint of Agriculture and Forestry.	PCC, 227 B
11	9:00 AM - 10:30 AM	SASES Brunch and Keynote Speaker	Sheraton, Valley of the Sun ABC
	9:00 AM - 11:00 AM	Utilizing the GAPIT R Package to Facilitate Analysis of Diversity Panels	PCC, 228 A
	9:00 AM - 3:00 PM	North American 4R Nutrient Stewardship Researchers Meeting	Hyatt, Remington
		Mechanical Measurements of Crops and Soils: Principles and Techniques	Sheraton, Maryvale B
12		SASES Business Meeting II	Sheraton, Valley of the Sun ABC
	11:00 AM - 3:00 PM	NE-1438 Multistate Project Meeting	Sheraton, Laveen B
	11:00 AM - 4:00 PM	Field-Based Phenotying in Maricopa-Sunday	PCC, Third Street Entrance
	12:00 PM - 12:30 PM	Moderator Training II	PCC, 221 C
13	12:00 PM - 2:20 PM	Undergraduate Research Contest - Oral II	PCC, 225 A
14	12:00 PM - 2:35 PM	Undergraduate Research Contest - Oral I	PCC, 226 A
	1:00 PM - 2:00 PM	S302 SSSA Journal Technical Editors	Sheraton, Deer Valley
	1:00 PM - 5:00 PM	Intro to Multivariate Analysis	РСС, 227 В
15	1:30 PM - 4:15 PM	Climate Change Impacts on Soil and Adaptation Strategies Oral	РСС, 226 В
	1:30 PM - 4:30 PM	Advanced Techniques in JMP Software	PCC, 227 A
16	1:30 PM - 5:15 PM	SymposiumTechniques for Jumpstarting the Restoration of Desertified Ag and Grasslands Soils	РСС, 228 В
17	1:55 PM - 4:30 PM	Soil Pedology Oral	PCC, 221 A
	2:00 PM - 2:45 PM	C312 Journal of Plant Registrations	Sheraton, Laveen A
	2:00 PM - 3:00 PM	S302 SSSA Journal New Editor Training	Sheraton, Deer Valley
	2:00 PM - 5:00 PM	W3128 Scaling Microirrigation Technologies to Address the Global Water	
		Challenge	Hyatt, Ellis
	2:00 PM - 5:00 PM	USDA-ARS Gracenet/REAP & Associated Database Discussion Meeting	PCC, 221 C
	2:00 PM - 5:00 PM	Isee Project Meeting	Sheraton, Ahwatukee B
	2:00 PM - 6:00 PM	LCCB Meeting	Sheraton, Maryvale A

No.	Тіме	Session Title	Location
19	2:30 PM - 4:00 PM	SASES National Speech Contest Prelims: II	PCC, 225 A
18	2:45 PM - 4:00 PM	SASES National Speech Contest Prelims: I	PCC, 226 A
20	3:00 PM - 4:50 PM	SymposiumEnabling Fiber Productivity Increases through	
		Multi-Disciplinary Innovations	PCC, 221 B
	3:00 PM - 5:00 PM	AgMIP ET Model Intercomparison Discussion	Sheraton, Laveen B
	3:00 PM - 5:00 PM	S302 SSSA Journal Editorial Board	Sheraton, Deer Valley
	3:00 PM - 5:00 PM	NCSRP Benchmarking Team Meeting	Sheraton, Laveen A
21	3:00 PM - 5:00 PM	Soil and Water Management and Conservation Oral I	PCC, 225 B
22	3:00 PM - 5:30 PM	SSSA Business MeetingConsulting Soil Scientists	PCC, 227 C
23	3:30 PM - 5:00 PM	Undergraduate Professional Development Workshop	PCC, 228 A
	3:30 PM - 5:30 PM	Department Heads/Chairs Roundtable	Sheraton, Maryvale B
	3:45 PM - 4:45 PM	Golden Opportunity Scholars Orientation	PCC, 226 C
24	4:00 PM - 5:30 PM	What's New in the Turfgrass Industry	PCC, 223
25	4:00 PM - 6:00 PM	Graduate Student Networking Session - Building Professional Relations	PCC, 229 AB
26	4:50 PM - 5:30 PM	ASA Community Business MeetingCotton and Other Fibers	PCC, 221 B
27	5:00 PM - 6:00 PM	SASES Club Poster Contest	,
	5:00 PM - 7:30 PM	Joint Meeting "Clover and Special Purpose Legumes" with	
		"Forage and Turfgrass" Crop Germplasm Committees	Sheraton, Laveen B
28	6:00 PM - 7:00 PM	ASA, CSSA and SSSA Opening Keynote: Our Freshwater Future:	
		New Solutions to Build Resilience in A Changing World	PCC, Ballroom 120 B-D
	7:00 PM - 9:00 PM	Welcome Reception	PCC, Exhibit Hall CDE
	7:00 PM - 9:00 PM	Exhibits & Career Center Open	PCC, Exhibit Hall CDE, Career Center
	7:00 PM - 9:00 PM	Graduate School Forum	PCC, Exhibit Hall CDE
29	8:00 PM - 9:00 PM	SASES National Speech Contest - Finals	PCC, 224 AB
30	9:00 PM - 11:00 PM	SASES Quiz Bowl	PCC, 224 AB
Mor	nday		·
	6:30 AM - 7:30 AM	Foundations Yoga (beginner's class)	Sheraton, Camelback AB
	7:00 AM - 7:30 AM	Moderator Training III	PCC, 221 C
31	7:00 AM - 9:00 AM	SSSA Breakfast, Awards, and Plenary (Nyle C. Brady Frontiers of Soil	100,2210
01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Science Lectureship)	Sheraton, Valley of the Sun ABC
32	7:00 AM - 6:00 PM	Extension Materials on Display I	PCC, Exhibit Hall CDE
33	7:45 AM - 10:00 AM	Sensor Based Nutrient Management (includes student competition)	PCC, 126 B
34	7:55 AM - 9:45 AM	C-2/C4 Graduate Student Oral Competition - I	PCC, 225 B
35	7:55 AM - 10:45 AM	Turfgrass Ecology and Management (student competition)	PCC, 223
36	7:55 AM - 11:15 AM	Applied Pest Management (student competition)	PCC, 221 C
37	8:00 AM - 9:50 AM	SymposiumPlant Breeding Post Genome Sequence:	100,2210
07	0.001101 9.001101	Where Do We Go from Here?	PCC, 122 BC
38	8:00 AM - 10:15 AM	SymposiumSay Hello to My Little Friend!: Using Social Media	
20	9.00 ANA 10.25 ANA	Effectively to Increase Resiliency of Your Programs and Teaching	PCC, 127 A
39 40	8:00 AM - 10:35 AM 8:00 AM - 11:30 AM	Robert F Barnes Ph.D. Oral Contest Global Climate Change General Oral (includes student competition)	PCC, 224 A PCC, 232 B
40 41	8:00 AM - 11:40 AM	SymposiumSoil Moisture Sensing for Crop Health Assessment and	
40	0.00 ANT 11 40 ANT	Management	PCC, 231 C
42	8:00 AM - 11:40 AM	Cover Crop Management Oral (includes student competition)	PCC, 221 B
43	8:00 AM - 11:45 AM	Environmental Quality Oral	PCC, 127 C
4.4	8:00 AM - 12:00 PM	Implementing Genomic Selection in Plant Breeding Programs	PCC, 227 A
44	8:00 AM - 12:00 PM	SymposiumIPM Resistance Management as related to CCA specialty certification exam prep	PCC, 121 AB
45	8:00 AM - 2:00 PM	Genomics, Molecular Genetics and Biotechnology Oral	
		(includes student competition)	PCC, 124 A
46	8:00 AM - 3:15 PM	Agronomic Production Section, General II Oral	PCC, 126 A
47	8:00 AM - 3:15 PM	Agricultural Practices to Improve Nitrogen-Use Efficiency and	
48	8:15 AM - 10:20 AM	Mitigate Greenhouse Gas Emission Oral Show Me the Science: Chemistry, Structure, Techniques, and Stuff	PCC, 226 C
		(includes student competition)	РСС, 226 В
49	8:25 AM - 3:00 PM	General Bioenergy Systems Oral	PCC, 125 B
50	8:30 AM - 10:00 AM	SASES Club Presidents' Round Table	PCC, 230

No.	Тіме	Session Title	LOCATION
51	8:30 AM - 10:30 AM	SymposiumGlobal Semiarid Cropping Systems Adaptation to Climate Variability	РСС, 124 В
52	8:30 AM - 10:35 AM	SymposiumManure Management: Measuring and Mitigating Nutrient Losses and Gaseous Emissions	РСС, 228 В
53	8:55 AM - 11:00 AM	SymposiumCrop Perception to Environmental Stress	PCC, 121 C
54	9:00 AM - 11:00 AM	SymposiumAgricultural Experiment Stations in the	100,1210
01	7.007 HVI 11.007 HVI	Southwest-Successes and Concerns	PCC, 221 A
55	9:00 AM - 11:20 AM	Model Applications in Field Research Oral I	PCC, 232 A
56	9:00 AM - 11:25 AM	SymposiumCounting Carbon on the Farm: Science, System,	100,20211
		and Support	РСС, 227 С
	9:00 AM - 12:00 PM	Discover Phoenix & Scottsdale-Monday	PCC, Third Street Entrance
	9:00 AM - 12:00 PM	Elemental Analysis Solutions for Farm-to-Table Safety, Quality and	
	0.00 AM 6.00 PM	Sustainability	PCC, 227 B PCC, Exhibit Hall CDE,
	9:00 AM - 6:00 PM	Exhibits & Career Center Open	Career Center
	9:00 AM - 6:00 PM	Graduate School Forum	PCC, Exhibit Hall CDE
57	9:15 AM - 12:00 PM	SymposiumSustainable Intensification: Global Frameworks and	TCC, Exhibit Hall CDE
37	9.10 Alvi - 12.00 I Ivi	Implications for the U.S.	PCC, 128 A
58	9:20 AM - 12:00 PM	Symposium100th Anniversary of the Langmuir Equation, 1916-2016	PCC, 130
50 59	9:25 AM - 3:15 PM	Applied Soybean Research Oral (includes student competition)	PCC, 125 A
60	9:25 AM - 4:05 PM	S4/S8 Ph.D. Oral Competition	PCC, 129 A
61	9:30 AM - 11:00 AM	Career Path Opportunities for Students, Post-Docs, and Early	1 CC, 127 A
01	7.507.111 - 11.007.111	Career Members	PCC, Ballroom 120D
	9:30 AM - 11:30 AM	Make a Compelling Science Message: I	Sheraton, Maryvale B
62	9:30 AM - 11:30 AM	Microbial Diversity of Oligotrophic Environments: Strategies,	Sheraton, wary vale b
02	7.507.101 - 11.507.101	Processes, and Functions Oral	PCC, 131 C
63	9:30 AM - 11:35 AM	SymposiumMultivariate Analysis in Agronomy	PCC, 122 A
64	9:30 AM - 12:00 PM	Soil Health in Agroecosystems/Rangelands Oral	PCC, 131 B
65	9:30 AM - 12:00 PM	Advances in Soil Sensing and Model Integration with	
	0.20 ANA 12.00 DM	Instrumentation Oral	РСС, 132 С
66	9:30 AM - 12:00 PM	SymposiumWhat Can Soil Science Contribute to Land Surface	DCC 122 B
67	9:30 AM - 12:10 PM	Model Development	PCC, 132 B PCC, 231 B
67 68	9:30 AM - 12:20 PM	Soil and Water Management and Conservation Oral II Foundations of Ecological Restoration: Recovery of Soil Functions after	1 CC, 231 B
00	9.30 AIVI - 12.20 I IVI	Drastic Disturbance Oral	PCC, 132 A
69	9:30 AM - 12:20 PM	Urban and Anthropogenic Soils Oral (includes student competition)	PCC, 126C
70	9:30 AM - 2:30 PM	Fertilizer and Water Management Effects on the Soil Environment Oral	100,1200
70	2.001101	(includes student competition)	PCC, 131 A
71	9:30 AM - 3:00 PM	Soil Fertility and Plant Nutrition Oral	PCC, 128 B
72	9:30 AM - 3:20 PM	S4/S8 M.S. Oral Competition	PCC, 129 B
73	9:45 AM - 12:30 PM	Biomedical, Health-Beneficial and Nutritionally Enhanced Plants Oral	PCC, 123
10		AC315 Crop, Forage & Turfgrass Management Editorial Board	PCC, 226 A
		Agronomic Science Foundation Board of Directors Meeting	Sheraton, Laveen B
74		CCA Career Accelerator Round Table	РСС, 229 В
75		Grad School Workshop for Undergrads	PCC, 228 A
76		SymposiumUtilization of Omics Approaches to Improve Stress Tolerance	РСС, 225 В
77	10:05 AM - 11:55 AM	Soil Management Impacts on Soil Properties and Soil C and	
78	10:15 AM - 10:45 AM	N Dynamics Oral I (includes student competition) ASA Community Business MeetingSocial Media in	PCC, 231 A
		Education/Extension	PCC, 127 A
79		SymposiumPedology & Earth's Critical Zone	PCC, 232 C
80	10:30 AM - 11:00 AM	ASA Community Business MeetingAdaptive Nutrient Management	PCC, 126 B
81		On-Farm Research: I. Data Analysis & Extension Implications	РСС, 127 В
82	10:45 AM - 11:45 AM	ASA Community Business Meeting	
		Semi-Arid Dryland Cropping Systems	PCC, 124 B
83	11:00 AM - 11:30 AM	ASA Community Business Meeting	
		Nutrient Management Professionals	PCC, 126 B
84	11:00 AM - 12:00 PM	Freezerworks - Sample Management Software for Quality Assurance in	
		Crop Science	PCC, Exhibit Hall CDE,
			Demonstration Stage
85	11:00 AM - 12:00 PM	Martin and Ruth Massengale Lectureship	PCC, 224 A
			05

No.	Тіме	Session Title	LOCATION
	12:00 PM - 12:30 PM	Moderator Training IV	PCC, 221 C
86	12:00 PM - 1:00 PM	SASES Advisor Luncheon	PCC, 230
	12:00 PM - 1:30 PM	ACS732 Annual Meeting Planning Committee	PCC, Chorus
87	12:00 PM - 1:30 PM	Pop in with the Presidents	
88	12:00 PM - 4:30 PM	Langmuir's World (Video)	PCC, 130
89	12:30 PM - 1:30 PM	Gasmet Technologies - Simultaneous measurement of N2O, CH4, CO2 and Ammonia in soil flux measurements using field portable FTIR	
		gas analyzers.	PCC, Exhibit Hall CDE,
		Suo mini 2010.	Demonstration Stage
	1:00 PM - 2:00 PM	C302 Crop Science Technical Editors	PCC, 232 C
90	1:00 PM - 2:30 PM	Behavioral Interviewing	PCC, 224 B
	1:00 PM - 3:00 PM	Generation Image – Photography 101 for Communicating	
01	1.00 PM (Lab Research: I	Sheraton, Maryvale B
91 02	1:00 PM - 3:00 PM	Crops Judging Contest Showcase	PCC, Ballroom 120D
92 93	1:00 PM - 3:00 PM 1:00 PM - 5:00 PM	Interactive Workshop: Writing Manuscripts for Publication SymposiumNutrient Management as related to CCA specialty	PCC, 229 A
)0	1.001101-0.001101	certification exam prep	PCC, 121 AB
94	1:10 PM - 3:45 PM	C-2/C4 Graduate Student Oral Competition - II	PCC, 225 B
95	1:25 PM - 3:15 PM	Turfgrass Management	PCC, 223
96	1:25 PM - 3:40 PM	SymposiumSoils and Landscapes of the Southwestern United States	PCC, 132 C
97	1:30 PM - 2:05 PM	Poster and 5 Minute RapidCrop Ecology, Management and Quality	PCC, 121 C
98 00	1:30 PM - 2:30 PM	Calvin Sperling Memorial Biodiversity Lectureship	PCC, 123
99 100	1:30 PM - 2:35 PM	COP21 and Wetland Soils As Greenhouse Gas Sources and Sinks Oral Symposium"Hot" Tools and Technologies from Public- and	РСС, 226 В
100	1:30 PM - 3:00 PM	Private-sector Agronomy Programs	РСС, 127 В
101	1:30 PM - 3:05 PM	Environmental Fate, Transport, and Monitoring of Pesticides	100,1270
		(includes student competition)	PCC, 131 B
102	1:30 PM - 3:10 PM	SymposiumSeed Production and Field Performance in Relation to	
		Seed Quality	PCC, 226 A
103	1:30 PM - 3:20 PM	Turfgrass Management: Weeds	PCC, 221 C
104	1:30 PM - 3:20 PM	SymposiumOptimizing Ecosystem Services of Urban Soils:	PCC 12C
105	1:30 PM - 3:25 PM	Our Current State of the Science SymposiumEnvironmental Quality: A One Health Perspective	PCC, 126C PCC, 127 C
105	1:30 PM - 3:30 PM	Symposiumthe Grand Challenge – Water: Food, Energy and	1 CC, 127 C
200		Environmental Security	PCC, 232 B
107	1:30 PM - 3:30 PM	SymposiumFeed the Future - Impacts, Successes and Challenges	PCC, 221 B
108	1:30 PM - 3:30 PM	Polyhalite Use in Crop Product	PCC, Exhibit Hall CDE
109	1:30 PM - 3:35 PM	Biometry & Statistical Computing Oral	PCC, 122 A
110	1:30 PM - 3:50 PM	SymposiumExtreme Temperature and Drought Effects on ET and	
111	1:30 PM - 3:55 PM	Crop Water Stress: Data, Concepts, and Modeling SymposiumEvolution of Biophysical Measurements: Legacy of the	PCC, 232 A
111	1.501101-5.551101	US Water Conservation Lab and Advances in Rapid Phenotyping	PCC, 231 C
112	1:30 PM - 4:00 PM	Semiarid Dryland Cropping Systems Oral	PCC, 228 A
113	1:30 PM - 4:00 PM	Forage and Grazinglands Oral I	PCC, 225 A
114	1:30 PM - 4:00 PM	Symposiumso You Think You're an Expert - Consulting As an	
		Expert Witness	РСС, 227 С
115	1:30 PM - 4:15 PM	Sustainable Intensification Research: Assessing Multiple Biophysical	DCC 229 P
116	1:30 PM - 4:15 PM	and Socioeconomic Outcomes 5 Minute RapidSoil Physics and Hydrology Student Competition	РСС, 228 В
110	1.501 101 - 4.151 101	(Includes Poster Session)	РСС, 132 В
117	1:30 PM - 4:30 PM	Soil and Water Management Conservation Oral III	PCC, 231 B
118	1:30 PM - 4:45 PM	SymposiumUnearthing the Role of Global Soil Biodiversity in	
		Ecosystems	PCC, 131 C
119	1:40 PM - 3:15 PM	Forest, Range, and Wildland Soils General Session I Oral	PCC, 132 A
120	1:55 PM - 3:45 PM	Soil Management Impacts on Soil Properties and Soil C and N	DCC 001 A
101	1.55 DN/ 4.00 DN/	Dynamics Oral II Symposium Exchanging Waterway Nutrient Abundance for Scarcity	PCC, 231 A PCC, 127 A
121	1:55 PM - 4:00 PM 2:00 PM - 3:00 PM	SymposiumExchanging Waterway Nutrient Abundance for Scarcity C302 Crop Science Editorial Board	PCC, 127 A PCC, 232 C
122	2:00 PM - 3:00 PM	METER Presents	PCC, Exhibit Hall CDE,
_			Demonstration Stage
			0

124 2:00 PM - 3:45 PM SymposiumSoil Health Measurements for Resilient Agriculture: Assessments for Land Managers PCC, 125 2:00 PM - 4:00 PM S4/S8 M.S. Poster Competition PCC, 126 2:00 PM - 4:00 PM S4/S8 M.S. Poster Competition PCC, 127 2:30 PM - 4:30 PM SymposiumSustainability Challenges in Organic Agriculture PCC, 128 2:30 PM - 4:35 PM SymposiumQTL That Matter PCC, 129 2:40 PM - 2:55 PM ASA Community Business MeetingBiophysical Measurements and Sensors PCC, 130 3:00 PM - 4:00 PM ASA Community Business MeetingAdvancing Agronomy via Public-Private Collaboration PCC, 131 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Section I PCC, 133 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Section II PCC, 133 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Section II PCC, 134 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Section II PCC, 133 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Section II PCC, 134 3:00 PM - 5:00 PM Undergraduate Research Contest - Poster Sect	126 B 221 A
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150 4:00 PM - 6:00 PM Developing Research and Extension Skills of Students in Integrated	Exhibit Hall CDE
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	Exhibit Hall CDE
153 4:00 PM - 6:00 PM Crop Irrigation Strategies and Management Poster	Exhibit Hall CDE
	Exhibit Hall CDE
161 4:00 PM - 6:00 PM Agricultural Practices to Improve Nitrogen-Use Efficiency and Mitigate	Exhibit Hall CDE
162 4:00 PM - 6:00 PM Counting Carbon on the Farm: Science, Systems and Support Poster	
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165 400 PM - 600 PM Crop Ecology, Management and Quality Poster PCC, Exhibit Hall CDE 167 400 PM - 600 PM Colf Turf Poster (includes student competition) PCC, Exhibit Hall CDE 178 400 PM - 600 PM Turgrass Breading, Cenetics and Molecular Techniques Poster (includes student competition) PCC, Exhibit Hall CDE 179 400 PM - 600 PM Biomedical, Health Beneficial and Nutritionally Enhanced Plants Poster PCC, Exhibit Hall CDE 174 400 PM - 600 PM Biomedical, Health Beneficial and Nutritionally Enhanced Plants Poster PCC, Exhibit Hall CDE 174 400 PM - 600 PM Biomedical, Health Beneficial and Nutritionally Enhanced Plants Poster PCC, Exhibit Hall CDE 174 400 PM - 600 PM Greenhouse Cas Emissions and Migliation from Managed Lands Poster PCC, Exhibit Hall CDE 175 400 PM - 600 PM Soil Biology and Biochemistry Poster I (includes student competition) PCC, Exhibit Hall CDE 176 400 PM - 600 PM Soil Biology and Biochemistry Poster I (includes student competition) PCC, Exhibit Hall CDE 176 400 PM - 600 PM Soil Boology and Biochemistry Poster I (includes student competition) PCC, Exhibit Hall CDE 177 400 PM - 600 PM Soil Boology and Biochemistry Poster I (includes student competition) PCC, Exhibit Hall CDE 178 400 PM - 600 PM Soil Am Environmental Scuptor	No.	Тіме	Session Title	LOCATION
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191 9:30 PM - 11:55 PMSASES SocialSheraton, Encanto AB				
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6:30 AM - 7:30 AM Urban Flow Yoga (intermediate-advanced class)

Sheraton, Camelback AB

No.	Тіме	Session Title	LOCATION
192	6:30 AM - 8:00 AM	Frank N. Meyer Medal for Plant Genetic Resources Breakfast & Award	Sheraton, Maryvale B
	6:30 AM - 8:30 AM	SSSA (S591) K-12 Committee	Sheraton, Laveen A
	7:00 AM - 7:30 AM	Moderator Training V	PCC, 221 C
	7:00 AM - 8:00 AM	North American Forest Soils Conference Planning Committee Meeting	Sheraton, Laveen B
193	7:00 AM - 9:10 AM	ASA Breakfast, Awards, and Plenary (York Lectureship)	Sheraton, Valley of the Sun ABC
194	7:00 AM - 6:00 PM	Extension Materials on Display II	PCC, Exhibit Hall CDE
195	7:55 AM - 9:15 AM	C-2/C4 Graduate Student Oral Competition - III	PCC, 123
196	7:55 AM - 10:00 AM	Turfgrass Breeding, Genetics, and Molecular Techniques (student competition)	РСС, 225 В
97	7:55 AM - 10:00 AM	SymposiumClimate Mitigation from Soil - Meeting COP21	
		Initiative Goals	PCC, 129 A
198	7:55 AM - 10:15 AM	Golf Turf Management (student competition)	PCC, 224 A
.99	7:55 AM - 12:00 PM	Novel Approaches to Quantify and Combat Soil Degradation	РСС, 227 С
200	7:55 AM - 12:00 PM	Soil Chemistry Oral	PCC, 225 A
201	8:00 AM - 9:05 AM	Consulting Soil Scientists Oral	PCC, 227 A
202	8:00 AM - 9:45 AM	Soil Education & Outreach Oral	PCC, 231 B
203	8:00 AM - 9:50 AM	General Organic Management Systems Oral I	
		(includes student competition)	PCC, 127 A
204	8:00 AM - 10:00 AM	Remote Sensing of Land Surface and Vadose Zone Hydrologic	
		Processes Oral	PCC, 131 A
205	8:00 AM - 10:35 AM	Soils and Environmental Quality Oral I	PCC, 228 A
206	8:00 AM - 11:00 AM	SymposiumSoil Organic Amendments and N Cycling: Strategies to Improve Nitrogen Use Efficiency, Reduce Synthetic Fertilizer	
		Input, Nitrate Leaching, and Nitrous Oxide Emissions	РСС, 131 В
207	8:00 AM - 12:00 PM	SymposiumCrop Management as related to CCA specialty	
		certification exam prep	PCC, 121 AB
08	8:00 AM - 12:00 PM	SymposiumResiliency in Forages and Grazinglands	PCC, 223
09	8:00 AM - 3:10 PM	Soil Biology and Biochemistry Oral	PCC, 131 C
210	8:00 AM - 4:00 PM	Gateway Scholars Program	PCC, 128 A
211	8:10 AM - 10:00 AM	Fundamental Changes in Soil Taxonomy	РСС, 227 В
212	8:15 AM - 12:00 PM	SymposiumQuantifying Uncertainty in Forest Ecosystem Studies	PCC, 132 B
213	8:25 AM - 9:15 AM	Soil Mineralogy Oral	PCC, 126 B
214	8:30 AM - 9:35 AM	Ron Phillips Plant Genetics Lectureship	PCC, 122 BC
	9:00 AM - 1:30 PM	Taliesin West and Carefree, AZ	PCC, Third Street Entrance
	9:00 AM - 6:00 PM	Exhibits & Career Center Open	PCC, Exhibit Hall CDE, Career Center
	9:00 AM - 6:00 PM	Graduate School Forum	PCC, Exhibit Hall CDE
015	9:25 AM - 11:50 AM	Soil N Characterization and N Management	PCC, 130
215		0	
16	9:25 AM - 11:55 AM	Secondary, Micronutrients, and Animal Waste Oral	PCC, 132 C
17	9:25 AM - 12:00 PM	Crop Physiology and Metabolism Oral	PCC, 123
218	9:25 AM - 2:15 PM	Crop Ecology, Management and Quality Oral	PCC, 121 C
.19	9:30 AM - 10:45 AM	Applied Agronomic Research and Extension Oral	PCC, 226 A
220	9:30 AM - 10:50 AM	Crop Irrigation Strategies and Management Oral	
		(includes student competition)	PCC, 126 B
221	9:30 AM - 10:50 AM	Watershed Management Planning: Predicting Nutrient Reductions Due to the Implementation of Best Management Practices	РСС, 227 А
	9:30 AM - 11:00 AM	ACS321 Editorial Affairs	Sheraton, Deer Valley
222	9:30 AM - 11:00 AM	Negotiation Strategies for Early Career Scientists	PCC, 230
223	9:30 AM - 11:00 AM	Undergraduate Education Oral	PCC, 226 B
224	9:30 AM - 11:20 AM	Soil Health for Improving Soil Water Dynamics and Agroecosytem	1 CC, 220 D
		Resilience	PCC, 221 A
	9:30 AM - 11:30 AM	Generation Image – Photography 101 for Communicating Lab Research: II	Sheraton, Maryvale B
225	9:30 AM - 11:30 AM	SymposiumDecision Agriculture: Integrating Precision Tools, Data Science, and Agronomic Knowledge for Improved Decisions	PCC, 126C
226	9:30 AM - 11:30 AM	SymposiumTechnologies for Resilience to Climate Change and	
	0.00 434 44 07 43 5	Information Technologies for Small Stakeholders	PCC, 226 C
27	9:30 AM - 11:35 AM	SymposiumNovel and Ancient Crops: Small in Acreage, Large in Value	PCC, 122 A
28	9:30 AM - 11:50 AM	Impacts of Soil and Water Pollution on Food Safety Oral (includes student competition)	РСС, 228 В

No.	Тіме	Session Title	Location
229	9:30 AM - 11:55 AM	SymposiumNitrogen Modeling Programs	РСС, 129 В
230	9:30 AM - 12:00 PM	ACS528 Diversity Student Poster Competition	PCC, Exhibit Hall CDE
231	9:30 AM - 12:10 PM	Management Practices and Land-Use Impact on Global Warming	
232	9:30 AM - 12:15 PM	Potential and Greenhouse Gas Intensity SymposiumPartitioning of Evapotranspiration: Instrumentation	РСС, 127 С
		and Simulation	PCC, 126 A
233	9:40 AM - 11:00 AM	Current Agricultural and Environmental Uses of Gypsum	РСС, 127 В
234	9:45 AM - 11:35 AM	SymposiumCrop Modeling and Plant Breeding: Intersecting Disciplines for a Resilient Agriculture	PCC, 122 BC
235	9:50 AM - 2:50 PM	The Impact of 4Rs (Source, Rate, Time and Place) on Crop Yield Oral	PCC, 132 A
235 236	9:55 AM - 11:30 AM	SymposiumSoils and Microbial Communities in Newly Formed and	
		Heavily Disturbed Wetland Environments	PCC, 125 B
237	9:55 AM - 11:55 AM	Agronomic Production Systems Oral	PCC, 127 A
238	10:00 AM - 11:00 AM	Bruker - Portable Elemental Analysis for Agriculture,	PCC Estrict Hall CDE
		Food Safety & Quality	PCC, Exhibit Hall CDE,
000	10.00 ANA 11.20 ANA	CCCA Business Martine CallEducation & Octoord	Demonstration Stage
239		SSSA Business MeetingSoil Education & Outreach	РСС, 231 В
240	10:00 ANI - 12:15 PIN	SymposiumRemote Sensing of Land Surface and Vadose Zone	DCC 121 A
041	10.10 ANA 0.20 DM	Hydrologic Processes	PCC, 131 A
241	10:10 ANI - 2:30 PNI	Greenhouse Gas Emissions and Migitation from Lands Oral	DCC 109 P
242	10.0E ANA 11.4E ANA	(includes student competition)	PCC, 128 B
242		Turfgrass Breeding and Genetics	PCC, 225 B
243		Turfgrass Management: Diseases/Insects	PCC, 224 A
244		ASA Community Business MeetingExtension Education	PCC, 226 A
245		ASA Community Business MeetingUndergraduate Education	РСС, 226 В
246	11:00 AM - 12:30 PM	ASA Community Business Meeting By-product Gypsum Uses in Agriculture	РСС, 127 В
	11:00 AM - 1:00 PM	Golden Opportunity Scholars Program	Sheraton, Ahwatukee AB
247		ASA Community Business Meeting	Sherutony r intruttance r ib
		Crop Irrigation Strategies and Management	PCC, 126 B
248	11:30 AM - 12:00 PM	ASA Community Business Meeting	
		Agronomic Solutions for Smallholders	PCC, 226 C
249	11:30 AM - 12:00 PM	ASA Community Business MeetingSoil Health	PCC, 221 A
		Soil Methods Editorial Board	Sheraton, Deer Valley
250		Irrometer Company, Inc Understanding Soil Moisture Sensor Data to	
		Maximize Water Use Efficiency	PCC, Exhibit Hall CDE,
			Demonstration Stage
251	11:30 AM - 12:30 PM	ASA Community Business MeetingPrecision Agriculture Systems	PCC, 126C
		CSSA Business MeetingPlant Genetic Resources	PCC, 122 BC
253		CSSA Business MeetingBiomedical, Health-Beneficial and Nutritionally	
		Enhanced Plants	PCC, 122 A
	12:00 PM - 12:30 PM	Moderator Training VI	PCC, 221 C
254	12:00 PM - 1:30 PM	Science Policy Graduate Student Luncheon	Sheraton, Valley of the Sun DE
255	12:30 PM - 2:00 PM	Tips from the Experts on the Job Application & Interviewing Process	PCC, 230
256	12:55 PM - 4:00 PM	Crop Physiology and Metabolism Oral II	PCC, 123
250	1:00 PM - 2:00 PM	ACS320 Book and Multimedia Publishing	Sheraton, Deer Valley
257	1:00 PM - 2:00 PM	Delta-T - Using the DeltaLINK weather simulator to develop GP2	Sheruton, Deer vuney
207	1.001101 2.001101	Data Logger applications and refine experimental methods	PCC, Exhibit Hall CDE,
		Make a Compalling Science Massager II	Demonstration Stage
050	1:00 PM - 3:00 PM	Make a Compelling Science Message: II	Sheraton, Maryvale B
258 259	1:00 PM - 4:50 PM 1:00 PM - 5:00 PM	SymposiumAdapting Cropping Systems to Drought & Water Scarcity SymposiumSoil and Water Management as related to CCA specialty	РСС, 124 В
		certification exam prep	PCC, 121 AB
260	1:15 PM - 5:05 PM	Climatology and Modeling Oral	PCC, 126C
261	1:25 PM - 2:50 PM	5 Minute RapidTurfgrass Science	PCC, 224 A
262	1:25 PM - 3:00 PM	SymposiumSoil Systems - What Are They and Why Are They	
		Important?	РСС, 227 В
263	1:25 PM - 3:30 PM	SymposiumFuture of Turf Undergraduate Programs: Admission,	
		Enrollment and Retention	PCC, 224 B
264	1:25 PM - 3:40 PM	SymposiumCarbonates, Gypsum, Salts, and Dust	РСС, 131 В

No.	Тіме	Session Title	LOCATION
265	1:30 PM - 2:00 PM	ASA Community Business Meeting U.SSino Agricultural Research Forum	РСС, 226 С
266	1:30 PM - 2:00 PM	Poster and 5 Minute RapidSoil Education & Outreach	PCC, 231 B
267	1:30 PM - 2:10 PM	Poster and 5 Minute RapidAgronomic Production Systems	PCC, 126 B
268	1:30 PM - 2:30 PM	ASA Community Business MeetingSoil Carbon and Greenhouse Gas Emissions	РСС, 127 С
269	1:30 PM - 2:50 PM	Soil Chemistry Oral II	PCC, 225 A
270	1:30 PM - 3:00 PM	Improving Accuracy and Precision of Soil Carbon and Greenhouse Gas Emission Measurements and Quantification Oral	РСС, 227 А
271	1:30 PM - 3:05 PM	Manure Management: Maximizing Plant Production and Nutrient Use Efficiency	РСС, 125 А
272	1:30 PM - 3:05 PM	Forest, Range, and Wildland Soils General Session II Oral	PCC, 132 B
273	1:30 PM - 3:10 PM	Tropical Legumes Oral	PCC, 226 B
274	1:30 PM - 3:15 PM	SymposiumManufactured, Blended, and Engineered Soils for Urban Applications	РСС, 124 А
275	1:30 PM - 3:15 PM	Land Management and Conservation Oral	PCC, 225 B
276	1:30 PM - 3:30 PM	SymposiumNative Crops & Genetic Resources from the Southwest	PCC, 122 A
277	1:30 PM - 3:30 PM	General Nutrient Management Poster	PCC, Exhibit Hall CDE
278	1:30 PM - 3:30 PM	Organic Materials As Nutrient Sources	PCC, Exhibit Hall CDE
279	1:30 PM - 3:35 PM	SymposiumProcessing High-Throughput Data for Statistical Analysis	PCC, 221 C
280	1:30 PM - 3:40 PM	Symposiumthe Rhizosphere	PCC, 129 AB
281	1:30 PM - 3:45 PM	Evapotranspiration Measurements and Modeling Oral (includes student competition)	РСС, 126 А
282	1:30 PM - 3:50 PM	Crop Breeding & Genetics Oral I	PCC, 122 BC
283	1:30 PM - 3:50 PM	SymposiumImpacts of Soil and Water Pollution on Food Safety	PCC, 228 B
284	1:30 PM - 4:00 PM	SymposiumPulse Crops: Partners in Resilience	PCC, 221 B
285	1:30 PM - 4:00 PM	Forage and Grazinglands Oral II	PCC, 223
	1:30 PM - 4:15 PM	Women in Science Workshop on Leadership/Reception (ACS526).	PCC, 229 AB
286	1:30 PM - 4:20 PM	Modeling Energy and Mass Transfer Processes at the Soil-Atmospheric Interface Oral	РСС, 127 В
287	1:30 PM - 4:20 PM	Soil Physics and Hydrology Oral I	PCC, 127 A
288	2:00 PM - 4:00 PM	Building Active Teaching- and Extension-based Programs	PCC, 230
289	2:00 PM - 4:00 PM	Gypsum Use in Agriculture Poster	PCC, Exhibit Hall CDE
290	2:00 PM - 4:05 PM	SymposiumEnhancing the Sustainability and Resilience of Food Production with Extension and Integrated	DCC 221 A
291	2:00 PM - 5:00 PM	Extension-Research Strategies SymposiumBuilding Resilience to Face Climate Change in	PCC, 231 A
202	0.1E DM DIEE DM	China-US Collaborative Research	PCC, 226 C
292 293	2:15 PM - 2:55 PM 2:15 PM - 6:00 PM	5 Minute RapidAgronomic Production Systems William H. Patrick, Jr. Memorial Lectureship	PCC, 126 B PCC, 125 B
293	2:30 PM - 3:00 PM	AE Training for A302 Agronomy Journal Editorial Board	PCC, 231 C
294	2:30 PM - 3:30 PM	MicaSense - Remote Sensing Solutions for Precision Agriculture	PCC, Exhibit Hall CDE,
295	2:30 PM - 3:30 PM	ASA Community Business MeetingMilitary Land Use	Demonstration Stage
295	2,001111-0,001111	and Management	PCC, 228 A
296	2:45 PM - 4:05 PM	5 Minute Rapid: Denitrification Strategies to Reduce Nutrient Excesses in Waterways	РСС, 127 С
297	2:55 PM - 4:00 PM	Quantifying and Predicting Soil Ecosystem Services for Water, Food, Energy and Environmental Security Oral	РСС, 128 В
298	2:55 PM - 4:30 PM	Quantitative Pedon Descriptions and Modeling – Digital Soil Morphometrics	РСС, 227 С
299	3:00 PM - 4:00 PM	SSSA Business MeetingSoil Chemistry	PCC, 225 A
300	3:00 PM - 4:35 PM	5 Minute Rapid USGA/GCSAA Sponsored Research	PCC, 224 A
	3:00 PM - 5:00 PM	Yield Forecasting Center Team Meeting	Sheraton, Laveen B
	3:00 PM - 5:00 PM	A302 Agronomy Journal Editorial Board	PCC, 231 C
301	3:10 PM - 3:40 PM	ASA Community Business MeetingTropical Legumes	РСС, 226 В
302	3:15 PM - 4:15 PM	SSSA Business MeetingForest, Range, and Wildland Soils	PCC, 132 B
303	3:30 PM - 3:45 PM	ASA Community Business Meeting Evapotranspiration Measurement and Modeling	РСС, 126 А
304	3:30 PM - 3:55 PM	Poster and 5 Minute RapidPlant Genetic Resources	PCC, 122 A
305	3:30 PM - 4:00 PM	ASA Business MeetingLand Management and Conservation	PCC, 225 B

No.	Тіме	Session Title	LOCATION
306	3:30 PM - 4:00 PM	5 Minute Rapid: Stormwater Management	
• • •		Where Do Soils Fit in? (includes student competition)	PCC, 226 A
307	3:30 PM - 4:30 PM	SSSA Business MeetingWetland Soils	PCC, 125 B
308	3:35 PM - 4:05 PM	ASA Community Business MeetingSensor-Based Water Management	PCC, 126 B
309	4:00 PM - 4:50 PM	ASA Business MeetingBiometry & Statistical Computing	PCC, 221 C
310	4:00 PM - 4:50 PM	ASA Community Business MeetingBioinformatics in Crops and Soils	PCC, 221 C
311	4:00 PM - 4:50 PM	ASA Community Business MeetingSpatial Statistics Applications	PCC, 221 C
312	4:00 PM - 4:50 PM	ASA Community Business Meeting	DCC 221 C
010		Statistical Education/Training for Researchers	PCC, 221 C
313	4:00 PM - 5:00 PM	Daiki Rika Kogyo Co., Ltd NEW iTensiometer & iPenetrometer	PCC, Exhibit Hall CDE,
214	4.00 DM 5.00 DM	SSS A Business Masting	Demonstration Stage
314	4:00 PM - 5:00 PM	SSSA Business Meeting	DCC 120 P
215	4.00 DM 5.00 DM	Nutrient Management and Soil and Plant Analysis	РСС, 129 В РСС, 129 АВ
315 316	4:00 PM - 5:00 PM 4:00 PM - 5:00 PM	SSSA Business MeetingSoil Fertility and Plant Nutrition SSSA Business MeetingUrban and Anthropogenic Soils	PCC, 226 A
510	4:00 PM - 5:30 PM	Soil Judging Contest Committee Meeting AS425	Sheraton, Deer Valley
317	4:00 PM - 6:00 PM	Cotton and Other Fiber Crops (includes student competition)	PCC, Exhibit Hall CDE
318	4:00 PM - 6:00 PM	General Organic Management Systems Poster	Tee, Exhibit Hail eDE
010	1.001101 0.001101	(includes student competition)	PCC, Exhibit Hall CDE
319	4:00 PM - 6:00 PM	On-Farm Research: Advancing Precision Ag Tools, Data Analysis and	Tee, Exhibit Hail CDE
01)	1.001101 0.001101	Extension implications (includes student competition)	PCC, Exhibit Hall CDE
320	4:00 PM - 6:00 PM	Semiarid Dryland Cropping Systems Poster	1 0 0, 2,0001011000 02 2
010	1001111 01001111	(includes student competition)	PCC, Exhibit Hall CDE
321	4:00 PM - 6:00 PM	Climatology and Modeling Poster	PCC, Exhibit Hall CDE
322	4:00 PM - 6:00 PM	Evapotranspiration Measurements and Modeling Poster	,
		(includes student competition)	PCC, Exhibit Hall CDE
323	4:00 PM - 6:00 PM	Model Applications in Field Research and Management Poster	
		(includes student competition)	PCC, Exhibit Hall CDE
324	4:00 PM - 6:00 PM	Animal Agriculture & the Environment (includes student competition)	PCC, Exhibit Hall CDE
325	4:00 PM - 6:00 PM	Improving Accuracy and Precision of Soil Carbon and Greenhouse Gas	
		Emission Measurements and Quantification Poster	
		(includes student competition)	PCC, Exhibit Hall CDE
326	4:00 PM - 6:00 PM	Feed the Future - Impacts, Successes and Challenges Poster	PCC, Exhibit Hall CDE
327	4:00 PM - 6:00 PM	Tropical Legumes Poster	PCC, Exhibit Hall CDE
328	4:00 PM - 6:00 PM	Cover Crop Management Poster	PCC, Exhibit Hall CDE
329	4:00 PM - 6:00 PM	Land Management and Conservation Poster	PCC, Exhibit Hall CDE
330	4:00 PM - 6:00 PM	Military Land Use and Management Poster	PCC, Exhibit Hall CDE
331	4:00 PM - 6:00 PM	Soil Health for Resilient Agroecosystems (includes student competition)	PCC, Exhibit Hall CDE
332	4:00 PM - 6:00 PM	Crop Breeding & Genetics Poster II	PCC, Exhibit Hall CDE
333	4:00 PM - 6:00 PM	Div. C03 M.S. Poster Competition	PCC, Exhibit Hall CDE
334	4:00 PM - 6:00 PM	Div. C03 Ph.D. Poster Competition	PCC, Exhibit Hall CDE
335	4:00 PM - 6:00 PM	Applied Pest Management Poster (includes student competition)	PCC, Exhibit Hall CDE
336	4:00 PM - 6:00 PM	Turf Ecology and Management Poster (includes student competition)	PCC, Exhibit Hall CDE
337 338	4:00 PM - 6:00 PM	Turfgrass Management Poster: Pests Turfgrass Science Poster	PCC, Exhibit Hall CDE
339	4:00 PM - 6:00 PM 4:00 PM - 6:00 PM	Forage and Grazinglands Poster I	PCC, Exhibit Hall CDE PCC, Exhibit Hall CDE
340	4:00 PM - 6:00 PM	Genomics, Molecular Genetics and Biotechnology Poster	Tee, Exhibit Hail eDE
540	4.001111-0.001111	(includes student competition)	PCC, Exhibit Hall CDE
341	4:00 PM - 6:00 PM	Plant Genetic Resources Poster	PCC, Exhibit Hall CDE
342	4:00 PM - 6:00 PM	Forest, Range, and Wildland Soils General Session II Poster	PCC, Exhibit Hall CDE
343	4:00 PM - 6:00 PM	Soil Management Impacts on Soil Properties and Soil C and	1 0 0, 2,0001011000 02 2
0 10	1001111 01001111	N Dynamics Poster I (includes student competition)	PCC, Exhibit Hall CDE
344	4:00 PM - 6:00 PM	Soil Pedology Poster	PCC, Exhibit Hall CDE
345	4:00 PM - 6:00 PM	Microbial Diversity of Oligotrophic Environments: Strategies, Processes,	-,
-		and Functions Poster	PCC, Exhibit Hall CDE
346	4:00 PM - 6:00 PM	Soil Health in Agroecosystems/Rangelands Poster	PCC, Exhibit Hall CDE
347	4:00 PM - 6:00 PM	Soil Education & Outreach Poster	PCC, Exhibit Hall CDE
348	4:00 PM - 6:00 PM	Remote Sensing of Land Surface and Vadose Zone Hydrologic Processes	
		Poster	PCC, Exhibit Hall CDE
349	4:00 PM - 6:00 PM	Impacts of Soil and Water Pollution on Food Safety Poster	
		(includes student competition)	PCC, Exhibit Hall CDE

No.	Тіме	Session Title	LOCATION
350	4:00 PM - 6:00 PM	Soils and Environmental Quality Poster II	PCC, Exhibit Hall CDE
	5:00 PM - 6:00 PM	Dupont Plant Sciences Symposia Series	Sheraton, Maryvale B
351	5:15 PM - 8:00 PM	Leo M. Walsh Soil Fertility Distinguished Lectureship	PCC, 129 AB
352	5:30 PM - 6:45 PM	Elevator Speech Contest for Grad Students and Post-Docs	PCC, 121 C
	5:30 PM - 7:00 PM	S303 Vadose Zone Journal Editorial Board	Sheraton, Deer Valley
	5:30 PM - 7:30 PM	Dow Agrosciences/University of Illinois Urbana Champaign Social	Sheraton, Camelback A
	5:30 PM - 7:30 PM	Kansas State University, Dept of Agronomy	Sheraton, Ahwatukee B
353	6:00 PM - 7:15 PM	ASA Business MeetingClimatology and Modeling	PCC, 126C
	6:00 PM - 7:30 PM	SSSA Higher Education Materials Committee	Sheraton, Laveen B
354	6:00 PM - 9:00 PM	Election Night Watch Party	PCC, Ballroom 120 B-D
355	6:10 PM - 7:30 PM	SSSA Business MeetingSoil Mineralogy	PCC, 221 C
356	6:10 PM - 7:30 PM	SSSA Business MeetingSoils and Environmental Quality	PCC, 228 B
	6:30 PM - 8:30 PM	University of Nebraska-Lincoln Department of Agronomy	,
		& Horticulture, Big Red Mixer	Sheraton, Ahwatukee A
357	7:15 PM - 7:30 PM	ASA Community Business MeetingAgroclimatology and	· · · · , · · · · · · · · · · · ·
		Agronomic Modeling	PCC, 126C
Wed	lnesday		100,1200
<u></u>	7:00 AM - 7:30 AM	Moderator Training VII	PCC, 221 C
358	7:00 AM - 8:00 AM	Advancing Pedology Colloquium	PCC, 126 B
359	7:00 AM - 9:00 AM	CSSA Breakfast, Awards, and Plenary (Klepper Lectureship)	Sheraton, Valley of the Sun
339	7.00 AW - 9.00 AW	CSSA breaklast, Awards, and Frenary (Kiepper Lectureship)	ABC
360	7:00 AM - 4:30 PM	Extension Materials on Display III	PCC, Exhibit Hall CDE
361	7:30 AM - 10:45 AM	SymposiumHonoring the Contributions of Laj Ahuja: Building Bridges	
		Among Disciplines By Synthesizing and Quantifying Soil and Plant	
		Processes for Whole Systems Modeling	РСС, 227 С
362	7:55 AM - 12:00 PM	Soil Fertility for Corn, Wheat, and Soybean	PCC, 128 B
363	7:55 AM - 12:00 PM	New Frontiers of Soil and Plant Sciences: Astropedology and	
		Space Agriculture	PCC, 125 B
	8:00 AM - 8:50 AM	ACS530 Early Career Committee Meeting	PCC, 129 AB
364	8:00 AM - 9:50 AM	Education and Extension Oral	PCC, 225 B
365	8:00 AM - 9:50 AM	Economics of Cover Crops and Impact on Crop Productivity Oral	PCC, 221 C
366	8:00 AM - 10:00 AM	Soil-Plant-Atmosphere Interactions and Soil Carbon Dynamics in	
		Long-Term Research Experiments	PCC, 122 A
367	8:00 AM - 10:05 AM	SymposiumDigital Soil Mapping of Forest Soil Properties	PCC, 122 B
368	8:00 AM - 10:30 AM	Resiliency in Soil Microbial Communities Oral - Stress Responses	
		& Hot Spots	PCC, 122 C
369	8:00 AM - 10:55 AM	SymposiumBiofuel Crop Production without Competing for	
		Food Crops	РСС, 227 В
370	8:00 AM - 11:20 AM	Soils and Environmental Quality Oral II	PCC, 126C
371	8:00 AM - 11:25 AM	Global Agronomy Oral	РСС, 226 В
372	8:00 AM - 11:30 AM	Soil Organic Matter Cycling As a Key Critical Zone Process	PCC, 123
373	8:00 AM - 12:00 PM	SymposiumHumic Products: Optimizing Agroecosytem Balance	PCC, 230
374	8:00 AM - 12:00 PM	Agricultural Remote Sensing Oral	PCC, 228 A
375	8:00 AM - 12:15 PM	SymposiumMinimizing Phosphorus Losses during the	DCC 104 A
276		Non-Growing Season	PCC, 124 A
376	8:00 AM - 5:00 PM	SymposiumSustainable Agronomic Practices	PCC, 121 AB
377	8:10 AM - 11:45 AM	Soil Health	PCC, 128 A
378	8:25 AM - 11:45 AM	Fertilizer Management in Minor Acreage Crops Oral	РСС, 127 С
379	8:30 AM - 10:50 AM	Model Applications in Field Research Oral II	DCC 228 P
200	9.20 AM 11.20 AM	(includes student competition)	РСС, 228 В
380	8:30 AM - 11:30 AM	Communicating Your Science for Graduate Students: Messaging for a Greater Impact	PCC, 229 A
381	8:30 AM - 11:50 AM	Soil and Water Managment and Conservation Oral IV	PCC, 127 A
382	8:35 AM - 2:30 PM	Physical, Chemical and Biological Processes Controlling Transport and	,
002	5.55711,1 2.55711/1	Remediation of Emerging Contaminants in Soils Oral	
		(includes student competition)	PCC, 125 A
383	9:00 AM - 10:00 AM	Reaching out to Our Audience in the 21st Century	PCC, 221 B
384	9:00 AM - 10:20 AM	Where the Rubber Meets the Road: Novel and Real Uses of Biochar to	
-		Help People, Profit, and Plant (includes student competition)	PCC, 121 C

No.	Тіме	Session Title	LOCATION
385	9:00 AM - 10:50 AM	Urban Soil Restoration and Rehabilitation Oral	
		(includes student competition)	PCC, 130
386	9:00 AM - 10:55 AM	General Wetland Soils Oral (Includes Graduate Student Competition)	PCC, 126 A
	9:00 AM - 11:00 AM	International Wheat Initiative Agronomy Expert Working Group	PCC, 232 A
	9:00 AM - 11:00 AM	Make a Compelling Science Message: III	Sheraton, Maryvale B
387	9:00 AM - 11:00 AM	Grant Application Navigation and Resources for Expanding Early	, ,
		Career Opportunities	PCC, 229 B
	9:00 AM - 12:00 PM	Desert Botanical Gardens	PCC, Third Street Entrance
	9:00 AM - 4:30 PM	Exhibits & Career Center Open	PCC, Exhibit Hall CDE,
	7.007101 4.001101	Exhibits & Career Center Open	Career Center
	9:00 AM - 4:30 PM	Graduate School Forum	PCC, Exhibit Hall CDE
200	9:10 AM - 10:55 AM		PCC, 226 C
388		SymposiumTransforming Smallholder Agronomy in Africa	1 CC, 220 C
389	9:25 AM - 11:25 AM	SymposiumSensing for Phenotyping and Management: What Can	
		Remote and Proximal Sensors Tell Us about Physiological	Characteria Alternative A
	0.00 434 10.00 434	Properties of Crops?	Sheraton, Ahwatukee A
• • • •	9:30 AM - 10:30 AM	Crops & Soils Editorial Board Meeting	Sheraton, Camelback A
390	9:30 AM - 10:30 AM	SymposiumForage Roundtable	Sheraton, Ahwatukee B
391	9:30 AM - 11:00 AM	SSSA Business MeetingSoil Pedology	PCC, 126 B
392	9:30 AM - 11:20 AM	Soil Functional Zone Management:a Vehicle for Enhancing	
		Agroecosystem Services	PCC, 221 A
393	9:30 AM - 11:30 AM	CSSA Business MeetingTurfgrass Science	Sheraton, Deer Valley
394	9:30 AM - 11:30 AM	Symposiumthe Prominent Role of Plant Genetic Resources and	
		Genebanks in the Post-Genomic Era	Sheraton, Valley of the Sun D
395	9:30 AM - 12:00 PM	CSSA Business MeetingCrop Ecology, Management and Quality	Sheraton, Camelback B
396	9:35 AM - 9:50 AM	ASA Community Business MeetingK-12 Outreach and Activities	PCC, 225 A
397	9:50 AM - 10:50 AM	ASA Business MeetingEducation and Extension	PCC, 225 B
398	9:55 AM - 10:30 AM	General Extension Education Oral	PCC, 225 A
399		ASA Community Business Meeting	100,22011
577	10.007101 - 10.007101	Agricultural Experiment Station Management	PCC, 221 B
400	10.00 AM 10.20 AM	ASA Community Business MeetingCover Crop Management	PCC, 221 C
			1 CC, 221 C
401	10:00 Alvi - 11:00 Alvi	Steven's Water Monitoring - Soil Monitoring With Stevens Hydra	
		Probe Soil Sensor, Meeting the Challenges of new Applications	PCC, Exhibit Hall CDE,
	10.00 + 10.00 PL		Demonstration Stage
400		ACS324.1 Journal of Environmental Quality Editorial Board	Sheraton, Laveen B
402		Forest, Range, and Wildland Soils General Session III Oral	PCC, 122 B
403		SymposiumUse of Aerial Imagery for Nutrient Management	PCC, 231 B
404	10:15 AM - 3:00 PM	On-Farm Research: II. Advancing Precision Ag Tools	PCC, 223
405	10:25 AM - 12:00 PM	General Organic Management Systems Oral II	
		(includes student competition)	PCC, 231 A
406	10:25 AM - 12:00 PM	Soil Management Impacts on Soil Properties and Soil C and	
		N Dynamics Oral III	РСС, 127 В
407	10:35 AM - 10:50 AM	ASA Community Business Meeting	
		Model Applications in Field Research	PCC, 228 B
408	10:45 AM - 11:45 AM	CSSA Business MeetingForage and Grazinglands	Sheraton, Ahwatukee B
409		Honoring the Contributions of Laj Ahuja: Building Bridges Among	,
		Disciplines by Synthesizing and Quantifying Soil and Plant Processes	
		for Whole Systems Modeling Oral	РСС, 227 С
410	11:00 AM - 11:30 AM	ASA Community Business MeetingAgronomy in Africa	PCC, 226 A
411		Water Quality in Urbanizing Watersheds Oral	100,2011
111	11.007101 11.007101	(includes student competition)	PCC, 130
410	11.00 AM 12.00 DM		1 CC, 150
412	11:00 ANI - 12:00 FM	ASA Community Business Meeting	DCC 227 B
412		Bioenergy Systems (Open to Members)	PCC, 227 B
413		Poster and 5 Minute RapidSoil Pedology	PCC, 126 B
	11:00 AM - 1:00 PM	Ogallala Water CAP Project Meeting	Sheraton, Laveen A
414	11:00 AM - 1:00 PM	SSSA Business Meeting/LuncheonSoil Physics and Hydrology	PCC, 129 AB
415		ASA Business MeetingEnvironmental Quality	PCC, 122 A
416	11:30 AM - 12:00 PM	ASA Community Business MeetingCrop Management Professionals	PCC, 231 C
417		ASA Community Business Meeting	
		Integrated Pest Management Professionals	PCC, 231 C
418	11:30 AM - 12:00 PM	ASA Community Business Meeting	
		Soil and Water Management Professionals	PCC, 231 C
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No.	Тіме	Session Title	Location
419 420		ASA Community Business MeetingSolar Corridor Crop System	РСС, 227 А
420	11:30 AM - 12:00 PM	ASA Community Business Meeting	RCC 228 A
401	11.20 ANA 12.00 DM	Airborne and Satellite Remote Sensing	PCC, 228 A
421		ASA Community Business MeetingGlobal Digital Soil Map	PCC, 226 B
422		ASA Community Business MeetingPerennial Grain Development	PCC, 226 A
423	11:30 ANI - 12:30 PNI	CID Bio-Science, Inc Applications for Root Imaging in Agriculture	PCC, Exhibit Hall CDE,
40.4	11.00 AN 4 10.00 DM		Demonstration Stage
424		CSSA Business Meeting-Joint Division C01 and C07	Sheraton, Valley of the Sun D
425		CSSA Business MeetingCrop Physiology and Metabolism	Sheraton, Ahwatukee A
426		CSSA Business MeetingJoint Division C07 and C01	Sheraton, Valley of the Sun D
427	11:50 AM - 12:20 PM	ASA Community Business Meeting Sensor-Based Nutrient Management	РСС, 231 В
428	12:00 PM - 1:30 PM	Think Tank on the Future of Agricultural and Environmental Research:	
		Addressing the Need to Do More with Less	PCC, 224 AB
429	12:20 PM - 12:35 PM	ASA Community Business Meeting	
		Nutrients and Environmental Quality	PCC, 124 A
	12:30 PM - 4:00 PM	Field-Based Phenotyping in Maricopa-Wednesday	PCC, Third Street Entrance
	1:00 PM - 2:00 PM	S774 Kirkham Conference Committee Meeting	PCC, 129 AB
430	1:00 PM - 2:00 PM	USDA-NRCS - Using Web Soil Survey	PCC, Exhibit Hall CDE,
			Demonstration Stage
	1:00 PM - 5:00 PM	Humic Products Trade Association Business Meeting	Hyatt, Sundance
431	1:25 PM - 2:30 PM	Soil Physics and Hydrology Oral II	PCC, 125 B
432	1:30 PM - 2:05 PM	Perennial Grain Development for a Resilient Society Oral	PCC, 226 A
433	1:30 PM - 2:30 PM	ASA Community Business MeetingOrganic Management Systems	PCC, 225 A
434	1:30 PM - 2:30 PM	ASA Community Business Meeting	
		Biochar: Agronomic and Environmental Uses	РСС, 127 С
435	1:30 PM - 2:30 PM	ASA Business MeetingGlobal Agronomy	РСС, 226 В
436	1:30 PM - 2:30 PM	SSSA Business MeetingSoil and Water Management and Conservation	РСС, 127 В
437	1:30 PM - 2:35 PM	Sergei A. Wilde Distinguished Lectureship on Forest Soils	РСС, 122 В
438	1:30 PM - 2:40 PM	Water and Soil Microbial Populations Affected By Wastewater,	
		Biosolids, and Manure	PCC, 128 B
439	1:30 PM - 3:30 PM	Nutrient Management Law and Regulation	PCC, 128 A
440	1:30 PM - 3:30 PM	Crop Breeding & Genetics Oral II	PCC, 124 B
441	1:30 PM - 3:30 PM	Innovations in Soil Testing and Plant Analysis	PCC, Exhibit Hall CDE
442	1:30 PM - 3:30 PM	Francis E. Clark Distinguished Lectureship on Soil Biology	PCC, 124 A
443	1:30 PM - 3:35 PM	Soil-Plant-Water Relations Oral	PCC, 228 B
444	1:30 PM - 3:40 PM	SymposiumCan Cover Crop Mixtures Maximize	
		Agro-Ecosystem Services?	PCC, 221 C
445	1:30 PM - 4:20 PM	Plant Genetic Resources Oral	PCC, 126 A
446	2:00 PM - 2:30 PM	5 Minute RapidSoil Chemistry	РСС, 225 В
	2:00 PM - 3:00 PM	A213 Stewardship and Review Committee Meeting	PCC, 129 AB
447	2:00 PM - 3:25 PM	AgMIP: Advances in Crop & Soil Model Intercomparison	
		and Improvement Oral	PCC, 228 A
448	2:00 PM - 4:00 PM	Fertilizer Coatings, Stabilizers and Additives	PCC, Exhibit Hall CDE
449	2:00 PM - 4:00 PM	Impacts of 4Rs (Source, Rate, Time and Place) on Crop	
		Performance Poster	PCC, Exhibit Hall CDE
450	2:30 PM - 3:30 PM	Davis Instruments - Advances in Agricultural Data to the	
		Farmer's Advantage	PCC, Exhibit Hall CDE,
			Demonstration Stage
451	2:30 PM - 4:00 PM	Education and Extension Poster	PCC, Exhibit Hall CDE
452	2:30 PM - 4:30 PM	Agronomic Production Systems, Cropping Systems and Tillage Poster	PCC, Exhibit Hall CDE
453	2:30 PM - 4:30 PM	Agronomic Production Systems, General Poster	PCC, Exhibit Hall CDE
454	2:30 PM - 4:30 PM	Agricultural Remote Sensing Poster	PCC, Exhibit Hall CDE
455	2:30 PM - 4:30 PM	Honoring the Contributions of Laj Ahuja: Building Bridges Among	
		Disciplines By Synthesizing and Quantifying Soil and Plant Processes	
		for Whole Systems Modeling Poster	PCC, Exhibit Hall CDE
456	2:30 PM - 4:30 PM	Environmental Quality Poster	PCC, Exhibit Hall CDE
457	2:30 PM - 4:30 PM	Global Agronomy Poster	PCC, Exhibit Hall CDE
458	2:30 PM - 4:30 PM	Crop Physiology and Metabolism Poster	PCC, Exhibit Hall CDE
459	2:30 PM - 4:30 PM	Forage and Grazinglands Poster II	PCC, Exhibit Hall CDE
460	2:30 PM - 4:30 PM	Digital Soil Mapping of Forest Soil Properties Poster	PCC, Exhibit Hall CDE

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No.	Тіме	Session Title	Location
461	2:30 PM - 4:30 PM	Forest, Range, and Wildland Soils General Session III Poster	PCC, Exhibit Hall CDE
462	2:30 PM - 4:30 PM	Soil and Water Management and Conservation Poster II	PCC, Exhibit Hall CDE
463	2:30 PM - 4:30 PM	Soil Management Impacts on Soil Properties and Soil C and	
		N Dynamics Poster II	PCC, Exhibit Hall CDE
464	2:30 PM - 4:30 PM	Soil Pedology Poster II	PCC, Exhibit Hall CDE
465	2:30 PM - 4:30 PM	Resiliency in Soil Microbial Communities Poster	PCC, Exhibit Hall CDE
466	2:30 PM - 4:30 PM	Soil Biology and Biochemistry Poster II	PCC, Exhibit Hall CDE
467	2:30 PM - 4:30 PM	Soil Chemistry Poster	PCC, Exhibit Hall CDE
468	2:30 PM - 4:30 PM	Fertilizer & Lime Responses 1	PCC, Exhibit Hall CDE
469	2:30 PM - 4:30 PM	Nutrient-Soil Management Interactions	PCC, Exhibit Hall CDE
470	2:30 PM - 4:30 PM	Soil Fertility and Plant Nutrition Poster	PCC, Exhibit Hall CDE
471	2:30 PM - 4:30 PM	Soil Physics and Hydrology Poster II	PCC, Exhibit Hall CDE
472	2:30 PM - 4:30 PM	Physical, Chemical, and Biological Processes Controlling Transport and Remediation of Emerging Contaminants in Soils Poster	
		(includes student competition)	PCC, Exhibit Hall CDE
473	2:30 PM - 4:30 PM	Soils and Environmental Quality Poster III	PCC, Exhibit Hall CDE
474	2:30 PM - 4:30 PM	General Wetland Soils Poster I	PCC, Exhibit Hall CDE
475	2:30 PM - 4:30 PM	General Wetland Soils Poster II (includes student competition)	PCC, Exhibit Hall CDE
476	2:40 PM - 3:40 PM	ASA Community Business MeetingAnimal Agriculture and	
		the Environment	PCC, 128 B
	3:00 PM - 4:00 PM	ASA Community & Section Feedback Meeting	PCC, 129 AB
477	3:30 PM - 4:30 PM	AgMIP: Advances in Crop & Soil Model Intercomparison and	
		Improvement Poster	PCC, Exhibit Hall CDE
478	3:30 PM - 4:30 PM	SSSA Business MeetingSoil Biology and Biochemistry	PCC, 124 A
479	3:35 PM - 4:00 PM	ASA Community Business MeetingGlobal Climate Change	PCC, 228 A
480	3:35 PM - 4:05 PM	ASA Community Business MeetingSoil-Plant-Water Relations	PCC, 228 B
	4:30 PM - 5:00 PM	Closing Reception	PCC, Ballroom 120 B-D
481	5:00 PM - 6:00 PM	ASA, CSSA and SSSA Closing Keynote	PCC, Ballroom 120 B-D
	5:00 PM - 7:00 PM	SERA-17 Mixer and Poster Session	Hyatt, Phoenix Ballroom
Thursday			
	7:00 AM - 9:00 AM	ASA Board of Directors Meeting	Sheraton, Encanto A
	7:30 AM - 5:00 PM	SERA-17 Meeting	Hyatt, Phoenix Ballroom
	8:00 AM - 5:00 PM	Annual Meeting of the Global Research Alliance -	J
		Croplands Research Group	Hyatt, Regency Ballroom AB
	9:30 AM - 11:30 AM	CSSA Board of Directors Meeting	Sheraton, Encanto B