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Oilseeds	James V. Anderson, USDA-ARS, Fargo, ND

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CONFERENCE PROGRAM

Sunday, August 30th, 2026

Muir Woods Tour & The Presidio Lunch

Time	Activity	Location
7:00 - 8:45	<i>Breakfast on your own</i>	
8:45 - 9:00	Boarding bus <i>(any late arrivals may miss the bus)</i>	Hotel Lobby
9:00	Bus leaves <i>(water and coffee provided for bus ride)</i>	Hotel driveway
10:00 – 13:30	Muir Woods & The Presidio visits	
14:30	Arrive at hotel from tour	Hotel driveway
14:30-16:00	CGC Meeting	Yerba Buena
15:00 – 17:45	AAIC Board Meeting	Treasure
17:30 – 18:30	Registration	Bayview Ballroom
18:00 – 20:00	AAIC Welcome Reception	Bayview Ballroom

Monday, August 31st, 2026
Plenary Session
Room: Angel/Belvedere

7:00 – 8:00	Registration		
8:00 - 8:15	AAIC Welcome, Grisel Ponciano, AAIC President		
Moderator: Grisel Ponciano			
Time	Speaker	Title	Pg. #
8:15 - 8:45	Jay Keasling, UC Berkeley professor Chemical Engineering & Bioengineering; CEO Joint BioEnergy Institute	Rewriting plant chemistry in yeast: Securing the supply of life-saving medicines	2
8:45 - 9:15	Steven Evans, BioMADE Technology & Innovation Program Manager	Leveraging BioMade to enable bio-based technology development in the Bay Area and beyond	3
9:15 - 9:45	Roger Thilmony, USDA-ARS-WRRC Molecular Biologist, Crop Improvement & Genetics	Molecular tools for improved crop biotechnology	4
9:45 - 10:15	Coffee Break		
10-15 - 10:45	Chris Schlies, Sandy Bend Vineyard, Lake County, CA	California farmers and scientists: a win-win symbiosis	5
10:45 - 11:15	Jonn Foulk, USDA-ARS National Programs, NP306: Product Quality and New Uses	Bioindustrial Pipeline: Powering U.S. Innovation and Manufacturing	6
11:15-11:45	Q/A & Final Remarks		
12:00 – 13:00	Lunch- Bayview Ballroom		

Natural Rubber & Resin Division I			
Division Chair: Manuel Carmona			
Room: Angel/Belvedere			
Time	Speaker	Title	Pg . #
13:00-13:10	Introduction	Manuel Carmona	
13:10-13:40	Keynote speaker: McMahan	Building a U.S. domestic rubber future: innovation, agriculture, and national resilience	8
13:40-14:00	Packer	Ensuring the safety and availability of the USDA guayule and cactus collections at the national arid lands plant genetic resources unit: an update on their current condition and renewal efforts.	9
14:00-14:20	Grace Chen	Characterization of two guayule (<i>Parthenium argentatum</i> A. Gray) clones part II: rubber accumulation, rubber transferase activity, and gene expression under low-temperature	10
14:20-14:40	Kornfield	Agile processing of guayule biomass for market responsive latex, resin and rubber	11
14:40-15:00	Premnath*	In a pinch: efficient guayule stem bark removal without disrupting bark structure	12
15:00-15:30	Coffee Break		
15:30-15:50	Readi-Brown*	Strategies for guayule resin extraction: off the plant to two-phase extraction	13
15:50-16:10	Müller	Extracting out of order: resin-first then latex from guayule bark	14
16:10-16:30	Palu	Guayule (<i>Parthenium argentatum</i> Gray) supply chain: where are we now?	15
16:30-16:50	Gonzalez-García	First genome assembly of <i>Parthenium tomentosum</i> provides insights into the hybridization of high-rubber-yielding guayule	16
18:00	Dinner on your own		

Numbers on the right column are the page numbers in which the abstract is located.

*Student presentation. ** Student travel award.

Tuesday, September 1st, 2026

**Concurrent Sessions
Natural Rubber & Resin/ Medicinal & Nutraceuticals**

Natural Rubber & Resin Division II			
Division Chair: Manuel Carmona			
Room: Belvedere			
Time	Speaker	Title	Pg . #
8:00-8:20	Chen Dong	Environment and genotype shape rubber biosynthesis regulation in guayule: insights from transcriptome network analysis	17
8:20-8:40	Phan	Transcriptomic and metabolomic insights into drought-enhanced rubber production in guayule	18
8:40-9:00	García-Cano**	Genome-wide identification and structural characterization of the terpene synthase (TPS) gene family in guayule (<i>Parthenium argentatum</i> A. Gray)	19
9:00-9:20	Zalacain	Relevance of high molecular weight natural rubber in guayule leaf	20
9:20-9:40	Cornish	Phenotypic characterization of the USDA rubber dandelion collection.	21
9:40-10:10	Coffee Break		
10:10-10:30	Thiele	Too dense or too sparse? Sowing density drives the rubber accumulation in rubber dandelion (<i>Taraxacum kok-saghyz</i>)	22
10:30-10:50	Ponciano	Investigating molecular interactions of small rubber particle protein 1 from Hevea (<i>Hevea brasiliensis</i> Müll. Arg.) with phospholipids	23
10:50-11:10	Dae-Kyun Ro	Developmental regulation of natural rubber biosynthesis through MYC2 regulatory network in lettuce laticifers.	24
11:10-11:45		Rubber & Resin Division meeting Division Chair: Manuel Carmona	
12:00-13:00	Lunch	Bayview ballroom	
13:00-14:30	Poster session	Room: Yerba Buena	
14:45-17:30	Conference Excursion: USDA-ARS-WRRC		
18:00	Dinner on your own		

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Medicinal & Nutraceutical Plants Division			
Division Chair: Laura De Martino			
Room: Angel			
8:00-8:10	Introduction	Laura De Martino	
8:10-8:40	Keynote speaker: Gruľová	Ecophysiological insights and biotechnological potential of ‘Kristinka’ peppermint for sustainable industrial applications	26
8:40-9:00	Vogelgsang	Carnosic acid and beyond: unlocking the bioactive potential of rosemary under central European conditions	27
9:00-9:20	Schnabel	New bioactive compounds from rosemary – not just for baked potatoes!	28
9:20-9:40	Zheljazkov	Natural product-based sprout control solutions for potato industry; advances and commercial potential	29
9:40-10:10	Coffee Break		
10:10-10:30	Carrillo-Lomelí	Layer-by-layer edible coatings with <i>Flourensia microphylla</i> extract for antifungal protection and shelf-life extension of cherry tomatoes	30
10:30-10:50	Salamon	Diversity of chamomile, <i>Matricaria recutita</i> L., essential oil in Ukraine	31
10:50-11:30	Medicinal & Nutraceuticals Division Meeting Division Chair: Laura De Martino		
12:00-13:00	Lunch	Bayview Ballroom	
13:00-14:30	Poster Session	Room: Yerba Buena	
14:45-17:30	Conference Excursion: USDA-ARS-WRRC		
18:00	Dinner on your own		

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*Student presentation. ** Student travel award

Wednesday, September 2nd, 2026

Concurrent Sessions
Oilseeds Division/ Fiber & Cellulosics

Oilseeds Division Room: Belvedere			
Division Chair: James V. Anderson			
8:00-8:10	Introduction	James V. Anderson	
8:10 - 8:40	Keynote Speaker: Hughes	The promise, progress, & potential of sustainable aviation fuels (SAF)	33
8:40 - 9:00	Phippen	From wild species to commercial crop: scaling pennycress for industrial oilseed markets and renewable fuels	34
9:00 - 9:20	Gesch	Optimizing domestic pennycress seeding rate	35
9:20 - 9:40	Chen, Chengci	Evaluating <i>Camelina sativa</i> germplasm for biofuel feedstock production in low nitrogen input environment	36
9:40 - 10:10	Coffee Break		
10:10 - 10:30	Eberle	Relay cropping winter camelina with chickpea, sunflower, and safflower	37
10:30 - 10:50	Zanetti	Harvesting strategies to early camelina harvest in intermediate cropping	38
10:50 - 11:10	Mastroberardino	The hidden cost of salinity tolerance in <i>Camelina sativa</i> : root ion homeostasis and reproductive trade-offs	39
11:10 - 11:30	Boote	Adapting the CSM-CROPGRO model to simulate growth and yield of camelina, a unique oilseed crop	40
12:00 – 13:00	Lunchtime AAIC Business Meeting (Bayview Ballroom) Grisel Ponciano- President AAIC		
Oilseeds Division Room: Belvedere			
13:00-13:20	Eynck	All roads also lead elsewhere: functional allelic variation at CSA.FLC.C20 revises the genetic model of flowering time in <i>Camelina sativa</i>	41
13:20-13:40	Sthapit Kandel	Genetic diversity and association mapping of flowering time in a <i>Camelina sativa</i> panel	42

13:40-14:00	Magwaba	Genomic regions associated with camelina (<i>Camelina sativa</i> L.) performance for early and late traits	43
14:00 – 14:20	Anderson	Genome-wide association study for seed size and weight in a diversity panel of <i>Camelina sativa</i>	44
14:20-14:40	Bhoomireddy **	Genome-wide association study of seed oil content and fatty acid composition in diverse camelina accessions	45
14:40-15:00	Coffee Break		
15:00-15:20	Winfield	Utilization of <i>Orychophragmus violaceus</i> L. seed oil: Potential industrial applications and challenges	46
15:20-15:40	Matloob**	Commercial biocontrol products performance for managing soilborne pathogens in North Dakota soybean fields	47
15:40-16:00	Oilseeds Division Meeting Division Chair: James V. Anderson		
16:15 – 18:00	AAIC Board Meeting – Angel		
18:00 – 20:00	AAIC Awards Dinner – Bayview Ballroom		

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**Concurrent Sessions Fiber & Cellulosics/General Crops Division
Room: Angel**

Fibers & Cellulosic Crops Division			
Division Chair: Ana Luisa Fernando			
8:00-8:10	Introduction	Ana Luisa Fernando	
8:10 - 8:40	Keynote speaker: Alexopoulou	Multifunctional fiber industrial crops for phytoremediation and value-added biobased products	49
8:40 - 9:00	Bajwa	Influence of tackifier type and fiber composition on the physico-mechanical properties of biodegradable hydromulches	50
9:00 - 9:20	Nanaki	Innovative biobased products: insights from a hard to abate industry	51
9:20-9:40	Huang	Transforming almond hulls into food ingredients: a scientific pathway for valorizing an agricultural coproduct	52

9:40-10:00	Coffee Break	Fibers & Cellulosic Crops Division Meeting	
General Crops Division			
Division Chair: Hussein Abdel Haleem			
Room: Angel			
10:05-10:10	Introduction	Hussein Abdel Haleem	
10:10 -10:40	Keynote speaker: <i>Fernando</i>	Assessment of the local environmental impacts of the cultivation of selected industrial crops to biofuels in contaminated soils	54
10:40-11:00	Gore	Quantitative reporting of soil nitrogen status with programmed plants in the field	55
11:00-11:20	Igboke**	Winter camelina cropping systems environmental impact assessment sensitivity to linear, exponential, and process-based models	56
11:20-11:40	Criollo*	From agricultural residues to value-added materials: quantifying emissions and opportunities for crop residue valorization	57
11:40-12:00	Abdel-Haleem	Soybean drought stress tolerance via physiological, remote sensing, and biochemical leaf wax mechanisms	58
12:00	General Crops Division Meeting Division Chair: Hussein Abdel-Haleem		
12:00 – 13:00	Lunchtime AAIC Business Meeting Grisel Ponciano-President AAIC		
16:15 – 18:00	AAIC Board Meeting -Angel		
18:00 – 20:00	AAIC Awards Dinner Bayview Ballroom		

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Poster Session
Tuesday 13:00-14:30 September 2nd, 2026
Room: Yerba Buena

RUBBER AND RESINS			p. #
1	Cornish	<i>Scorzonera tau-saghyz</i> , an alternative source of natural rubber and a promising industrial crop	60
2	Chaudhari**	Comparative microstructure cataloging and current research status of guayule	61
3	Dent**	Hidden seed quality constraints influence early establishment in guayule	62
4	Palu	Development and adaptation of guayule (<i>Parthenium argentatum</i> A. Gray) in semi-arid Kenya: a collaborative approach to value chain creation	63
5	Carmona	Effect of carbon-based foliar biostimulants on resin and rubber production in guayule (<i>Parthenium argentatum</i> A. Gray): implications for carbon partitioning under semi-arid conditions	64
6	Aviles Noriega	Comparative regeneration of guayule (<i>Parthenium argentatum</i> A. Gray) using leaf segments and flower bud explants	65
7	Cruz	Impact of storage and preservation methods on flow cytometric ploidy estimation in guayule	66
8	Chan	Molecular and biochemical characterization of guayule (<i>Parthenium argentatum</i> Gray) cis-prenyltransferases	67
9	Martinez	Molecular characterization and cloning of guayule (<i>Parthenium argentatum</i> Gray) small rubber particle protein isoforms	68

10	Garcia-Cano*	A new guayulin isolated from guayule resin: 16- hydroxyguayulin C, citotoxicity evaluation	69
11	Zalacain	Optimization of SF9 in vitro model to determine biopesticide activity of isolated compounds from <i>Parthenium argentatum</i> A. Gray	70
12	Carmona	Chemical degradation study of a guayule based biocomposite	71
13	Downing*	Guayule as phytoremediator of copper-contaminated systems	72
MEDICINAL AND NUTRACEUTICAL PLANTS			
14	Garcia-Cano**	Isolated guayule's resin compounds improve Ewing's sarcoma cell lines cytotoxicity	74
15	Zalacain	Guayule-derived argentatins a and b as potential bioactive compounds for skin applications	75
16	Kharabara	Chamomile large-scale cultivation and phytotherapeutic tea quality in Ukraine	76
17	Carrillo-Lomeli	Biostimulation by semi-arid plant extracts on germination and seedling growth of melon seeds	77
18	Carrillo-Lomeli	<i>Flourensia cernua</i> essential oil with antifungal effect against <i>Alternaria alternata</i> , a pathogenic and toxigenic fungus	78
19	Gruřová	Environmentally friendly encapsulation of essential oils and plant extracts for sustainable crop protection	79
OILSEEDS			
20	Cermak	Synthesis and physical properties of hempseed and high-oleic hempseed oil estolides	81
21	Phippen, M.	Multi-year evaluation of nitrogen and sulfur fertilization effects on yield and seed composition in pennycress (<i>Thlaspi arvense</i> L.)	82
22	Marek	National plant germplasm system camelina collection update including species id for accessions from Armenia	83
23	Codina-Pascual	Why does camelina compete well against dicotyledonous weeds but not against grass weeds?	84
24	Gartenberg*	Carbon intensity estimates for camelina production practices	85
25	Evangelista	Diversity in seed size, oil and crude protein contents, and fatty acid composition of selected industrial hemp accessions	86

26	Morin**	Performance comparisons of hybrid and open-pollinated hemp for grain, dual-purpose, and fiber cultivar types	87
27	Zanetti	Winter carinata as intermediate crop for Sustainable Aviation Fuels (SAF) production	88
28	Sthapit-Kandel	Assessing genetic diversity and freezing tolerance in camelina species	89
FIBER AND CELLULOSICS			
29	Verma*	Composites with cellulosic crops: methods to blend algae and latex	91
30	Fernando	Feasibility of nanolignin and nanocellulose production from sorghum and hemp cultivated in contaminated soils	92
GENERAL CROPS			
31	Hojilla-Evangelista	Efficacy of ethanol blended with alkali for producing sorghum protein with improved functional properties	93
32	Criollo	Repurposing agricultural residues into sustainable natural fiber polymer composites through VARTM	94
33	Alexopoulou	Industrial crops for the phytomanagement of contaminated and saline soils and the development of biobased value chains	95
34	Fernando	Potential and limitations of low ILUC industrial crops cultivated on marginal soils for the bio-based industries	96

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