Thursday, February 1
Technical Sessions At-A-Glance

8:15 am	Opening Plenary: Doug Tallamy | Marquis Ballroom				
9:30 am	**Coffee Break | Imperial Ballroom**				
Room Session	**Marquis 1 & 2 Rare Plants**	**Marquis 3 Grasslands & Prairies**	**Marquis 4 CA's Changing Climate**	**Imperial E & F Managing Lands**	**Marquis 5 & 6 Restoration**
10:00 am	The conservation of California's rare, threatened, and endangered plant taxa requires more information about occupied sites than we currently have (Hunter) 1.01	Updates to classification and ranking of California grasslands and prairies (Buck-Diaz) 2.01	Population-level genetic variation and climate change in California plant species (Schierenbeck) 3.01	Just when you think you have those rare plants protected... (Anderson) 4.01	Using locally-sourced species in field-based seed production for regional restoration projects (Waycott) 5.01
10:20 am	There's no place like home: Five endemic plants from southern California and the soils they love (Strahm) 1.02	Grasses versus forbs: What a long term, repeat study can tell us about California's native prairie landscapes (Laris) 2.02	Climate change and open space conservation: Lessons from TBC3's researcher-land manager partnerships in the San Francisco Bay Area (Ackerly) 3.02	The San Francisco Public Utilities Commission's response to introduced plant pathogens (*Phytophthora* spp.) in large scale restoration sites (Ingolia) 4.02	Restoring Mojave Desert native plant communities through implementation of the National Seed Strategy. (Perkins) 5.02
10:40 am	Natural history and distribution of woolly mountain parsley, *Oreonana vestita* (Tirrell) 1.03	Livestock grazing as a tool for enhancing native grassland in the East Bay Regional Park District (Hammond) 2.03	Fire management, managed relocation, and land conservation options for long-lived obligate seeding plants under global changes in climate, urbanization, and fire regime (Regan) 3.03	The impacts of mountain biking on plants - a review of the literature (Vandeman) 4.03	Establishing a native seed bank in an urban center: The LA Regional Native Seed Bank (Fraga) 5.03
11:00 am	Ecological niche modelling of *Ivesia webberi* in Nevada and California (Borokini) 1.04	Livestock use has mixed effects on *Orcuttia tenuis* in northeastern California vernal pools (Merriam) 2.04	A decision tree for determining whether to re-introduce extirpated plants (Randall) 3.04	Improving land management through native plant conservation (Haney) 4.04	Smooth tarplant is not smooth, but translocating it can be (Sward) 5.04
11:20 am	Introduction and reintroduction as an aid to species recovery (Witham) 1.05	Novel fine-scale aerial mapping approach quantifies grassland weed cover dynamics and response to management (Butterfield) 2.05	California's multiyear drought predisposed a deep-rooted chaparral species to fungal-induced mortality: Hydraulic mechanisms and future prognosis (Davis) 3.05	Living in simpler times: Extirpated and locally rare plants around Mt. Tamalpais, Marin County (Williams) 4.05	Why are wildland plant pathologists fixated on native container stock: The threats to California's vegetation from *Phytophthora* (Pythiaceae) (Frankel) 5.05
11:40 am	**Lunch Break**				
Room Session	**Marquis 1 & 2 Rare Plants**	**Marquis 3 Oaks & Oak-Rangelands**	**Marquis 4 CA's Changing Climate**	**Imperial E & F Managing Lands**	**Marquis 5 & 6 Restoration**
1:00 pm	Cryptic species recognition and rare plant biology: Impractical taxonomic splitting or an inconvenient truth? (Johnson) 1.06	Trends in California oak woodlands and forests (Gaman) 6.01	Population decline and microsatellite diversity of the endangered annual *Streptanthus glandulosus* subsp. *niger* (Brassicaceae) (Swope) 3.06	San Diego County regional rare plant management and monitoring program (Preston) 4.06	Guidelines to reduce the risk of *Phytophthora* (Pythiaceae) introductions and *Phytophthora*-induced mitigation failure in restoration projects (Garren) 5.06
1:20 pm	The next generation of conservation genetics: Genome sequencing reveals cryptic lineages and management-relevant genetic patterns in two rare species of the southern maritime chaparral: Del Mar manzanita (Ericaceae) and Nuttall's scrub oak (Fagaceae) (Burge) 1.07	Drought and beetle impacts to native trees: What can a wildland park do? (Dagit) 6.02	Incorporating intraspecific variation in plant trait and arthropod community responses to environmental change into restoration planning (Pratt) 3.07	Inspect and manage: A regional and collaborative approach to monitoring rare plant species in San Diego County (Vinje) 4.07	A southern California nursery's conversion to follow best management practices (Sale) 5.07

1:40 pm	The cryptic conundrum: A panel discussion on the conservation of cryptic plant species in an age of increasing advancements in molecular systematics (Baldwin) 1.08	The fire ecology, history, and management in the oak woodlands of California (Rice) 6.03	Using provenance studies to develop guidelines for resource management and restoration plans: Valley oak as a case study (Sork) 3.08	Conservation efforts in northwest Baja California (Riley) 4.08	Restoring prairie habitat quality for a federally endangered annual forb: A ten-year report on Presidio clarkia (Naumovich) 5.08
2:00 pm	Rare Plant Panel	Vegetation metrics to inform implementation of groundwater law (Sweet) 6.04	Ecological and evolutionary impacts of water availability on pollination: Lessons for translocation of species (Recart) 3.09	Botanical discoveries inform riparian conservation in southern California (Parker) 4.09	Restoration techniques and planning for the rare, native annual grass *Dissanthelium californicum* (Poaceae), formerly considered extinct, on San Clemente Island, CA (Havstad) 5.09
2:20 pm		Protecting oak woodlands via a medical cannabis cultivation ordinance (Marianchild) 6.05	Tools for seed sourcing decisions in a changing world: Using species distribution models with climate change projections and species traits to help inform restoration of southern California shrublands (Montalvo) 3.10	Preliminary results of an adaptive management experiment for many-stemmed dudleya (*Dudleya multicaulis* [Crassulaceae]), Rancho Mission Viejo, Orange County, CA (Bomkamp) 4.10	Preventing extinction of an endangered annual forb, San Mateo thornmint (Niederer) 5.10
2:40 pm	**Snack Break | Imperial Ballroom**				
3:00 pm	**Lightning Talks | Marquis Ballroom (See program for details)**				
5:30 pm	**Opening Reception & Poster Session | Foyers (See program for poster information)**				
7:00 pm	**Native People, Plants, Poetry: A Celebration | Atlanta & Boston Rooms**				
8:30 pm	**Botanical Tattoo Contest | Chicago & Dallas Rooms**				
9:00 pm	**Songfest & Music Jam | Chicago & Dallas Rooms**				

Friday, February 2
Technical Sessions At-A-Glance

Room Session	Marquis 1 & 2 Rare Plants	Marquis 3 Vegetation	Marquis 4 Chaparral	Imperial E & F Pathogens & Pests	Marquis 5 & 6 Restoration
8:00 am	Clarifying the conservation status of northern California black walnut (*Juglans hindsii* [Juglandaceae]) using microsatellite markers (Bartosh) 1.09	Improvements in analyzing and classifying vegetation survey data (Boul) 8.01	California chaparral in a global context (Rundel) 10.01	Exotic root-rotting *Phytophthora* species detected in restoration plantings on the Angeles National Forest have implications for chaparral health (VinZant) 11.01	The significance of functional diversity over percent cover: A call to use more native forbs in habitat restoration (Burt) 5.11
8:20 am	Rediscovering Baja California's lost plants (Rebman) 1.10	Habitat mapping at Rush Ranch Open Space Preserve, Suisun Marsh, Solano County (Vasey) 8.02	We are not alone out there (Mooney) 10.02	From alarm to coordinated action: The Golden Gate National Parks' response to *Phytophthora* (Shor) 11.02	Lessons learned from 20 years of habitat management for the federally listed mission blue butterfly (Crooker) 5.13
8:40 am	A dozen years of rare plant discoveries on Tejon Ranch (Jensen) 1.11	Mapping vegetation community types in a highly-disturbed landscape: Integrating hierarchical object-based image analysis with digital surface models (Snavely) 8.03	Chaparral community diversity (Parker) 10.03	Risk factors associated with the occurrence of *Phytophthora* species in native California plant communities (Swiecki) 11.03	A struggle against pathogens and pests: Lessons learned while restoring lupine habitat for the endangered mission blue butterfly in the Golden Gate National Recreation Area (Kwan) 5.12
9:00 am	Digging into our data: Rare plant hotspots in the CNPS Santa Clara Valley chapter (Alford) 1.12	One if by land, two if by air: A model for expedited vegetation mapping and accuracy assessment via helicopter support (Knapp) 8.04	Veiled by chaparral, born of fire, formed by time - Pinnacles National Park (Sanders) 10.04	Native or non-native *Phytophthora* species: How can we tell the difference? (Bourret) 11.04	A comparative study on the vegetation of western snowy plover habitat within urban and natural coastal dune systems of southern California (Weinik) 5.14
9:20 am	Approaches and methods for the quantification of soil seed banks: Overcoming seed blindness (O'Dell) 1.13	Development of a fine-scale vegetation and habitat map for Sonoma County, CA (Tukman) 8.05	Divergent evolutionary pathways enrich woody plant endemism in maritime chaparral (Vasey) 10.05	Protecting California's native flora: Practical guidance to reduce the introduction and spread of *Phytophthora* during restoration (Hillman) 11.05	Use of songbirds and other observable wildlife as metrics for selective acceptance of non-natives in restoration (DeSimone) 5.15
9:40 am	**Coffee Break | Imperial Ballroom**				
Room Session	**Marquis 1 & 2 Rare Plants**	**Marquis 3 Vegetation**	**Marquis 4 Chaparral**	**Imperial E & F Pathogens & Pests**	**Marquis 5 & 6 Restoration**
10:00 am	Island barberry (*Berberis pinnata* subsp. *insularis* [Berberidaceae]) conservation on the northern Channel Islands, California (McEachern) 1.14	Whitebark pine in California: State-wide forest health monitoring using ground- and remote sensing-based detection of vegetation disturbance (Slaton) 8.06	Inspiring connections with and preservation of a unique maritime chaparral plant community through the protection of a threatened species - *Hazardia orcuttii* (Asteraceae) (Gurnoe) 10.06	Emerging pests can devastate native trees in natural and urban forests (Drill) 11.06	Conservation grazing to manage *Stipa pulchra* (Poaceae) populations: A demographic evaluation (Larios) 5.16
10:20 am	The paradox of Nevin's barberry, *Berberis nevinii* (Berberidaceae): Saved from extinction by its horticultural appeal? (Washburn) 1.15	Does the California Native Plant Society/California Department of Fish and Wildlife vegetation sampling and mapping process work outside of California? How about East Africa? (Vollmar) 8.07	The flowering of chaparral geophytes post-fire - an unexpected role of cyanide (Briggs) 10.07	Invasive shot hole borers in Orange County Parks (Vasilis) 11.07	Do invasive grass water use strategies serve as a barrier to chaparral restoration? (Phillips) 5.17
10:40 am	Piecing together the best available information for a status assessment of *Chlorogalum purpureum* var. *reductum* (Agavaceae) (Kofron) 1.16	Coordinated monitoring of wildlife and native plants in California: Vegetation alliances explain variation in avian community composition (Furnas) 8.08	The role of tracheids in drought resistance of angiosperm species that occur in chaparral shrublands (Pratt) 10.08	Shot hole borer - an invasive invertebrate pest: Local efforts to monitor and manage this critter (Sin) 11.08	Effects of fire on herbicide (Murano) 5.18
11:00 am	Habitat management mitigates climate impacts for an endangered plant (Pickart) 1.17	Measuring the health of a mountain: Vegetation indicators for ecosystem health of Mount Tamalpais (Williams) 8.09	Niche segregation in water utilization as a mechanism of fern survival in chaparral shrub understories during extreme drought (Holmlund) 10.09	The CALINVASIVES database management system (Garbelotto) 11.09	Thirteen years of restoration activities in San Diego County using the Bradley method (Byrnes) 5.19

11:20 am	Hidden Lake bluecurls, *Trichostema austromontanum* subsp. *compactum* (Lamiaceae): Conservation success for a diminutive annual (Fraga) 1.18	Interactive web platforms drive conservation assessments and planning: West Mojave ecoregion case study (Pearce) 8.10	Plant hydraulics of chaparral shrub species along an elevational gradient in the southern Sierra Nevada: Foothill woodland, chaparral, and mixed forest (Jacobsen) 10.10	How to engage the federal government in protecting California's flora from invasive species (Campbell) 11.10	Direct install turf replacement: Changing an old concept (Mays) 5.20
11:40 am	**Lunch Break**				
Room Session	**Marquis 1 & 2 Invasive Plants**	**Marquis 3 Rare Natural Communities**	**Marquis 4 Chaparral**	**Imperial E & F Current Research**	**Marquis 5 & 6 Plant Science**
1:00 pm	Tamarisk control in maritime succulent scrub: Method refinement for region-wide control in Baja California (Gallagher) 12.01	Red listing ecosystems in the Americas - some preliminary findings for California (Comer) 9.01	Chaparral in the so-called Anthropocene (Zedler) 10.11	Biotic filters shaping *Limonium* (Plumbaginaceae) invasion in San Francisco Bay salt marshes (Saffouri) 13.01	California tree diversity hot spots (Stepanek) 14.01
1:20 pm	A private lands partnership to restore fire-prone river habitat in southern California: A unique synergy (Snapp-Cook) 12.02	Global, regional, and local rarity of vegetation communities as a foundation for the Bay Area Conservation Lands Network (Weiss) 9.02	Connecting Californians with the chaparral, the state's most extensive, native ecosystem (Halsey) 10.12	Surviving dormancy: The phenotypic plasticity of xylem parenchyma as starch storage organs across 2750m of elevation in the Sierra Nevada (Godfrey) 13.02	Prototypical key incorporating novel system and method for plant identification produced an order of magnitude improvement; unique system and method for plant identification presented (Dunlap) 14.02
1:40 pm	Understanding habitat preferences of Little San Bernardino Mountains linanthus (*Linanthus maculatus* [Polemoniaceae]): Is *Schismus barbatus* (Poaceae) invading *Linanthus* microhabitat? (Sweet) 12.03	Bigcone Douglas-fir mapping and inventorying in the Angeles National Forest (Kauffmann) 9.04	Exploring chaparral: Ecology and evolution of chaparral as reflected in student research and discoveries over a 35-year period (Parker) 10.13	Drought, fungi, and death in *Arctostaphylos glauca* (Ericaceae) (Schultheis) 13.03	Genetic diversity, gene flow, and the persistence of long-lived tree species in an era of environmental change: Lessons from *Sequoiadendron giganteum* (Cupressaceae) (DeSilva) 14.03
2:00 pm	Effects of manual and mechanical *Ammophila arenaria* (Poaceae) removal techniques on coastal dune plant communities and dune morphology (Silva Crossman) 12.04	The expansion of the hazelnut (*Corylus cornuta* subsp. *californica*) scrub type into Humboldt County and its relationship to the Wiyot Tribe on Table Bluff and Humboldt Bay (Canter) 9.05	How educating California's children on chaparral ecology through hands-on exploration of the chaparral helps to foster a meaningful relationship with the land and how that relationship directly influences the future of preservation in California's chaparral (Monteleone) 10.14	Resurveying Yosemite alpine plant communities after six years of drought (Ayers) 13.04	Guided Q & A with Session Chairs 14.04
2:20 pm	Controlling annual grasses in San Francisco's Lands End dune habitat (LeBeau) 12.05	Soil chemistry patterns in an edaphic endemism hotspot: The Pebble Plains of the San Bernardino Mountains, California (Burge) 9.06	In diversity is the preservation of the natural world - embracing Ralph Waldo Emerson's philosophy of self reliance and transcendentalism to help create a wider audience to appreciate, protect, and preserve California's native shrublands (Briceno) 10.15	Physiological sensitivity to historic drought and deluge years for eastern Sierra Nevada conifers (Ross) 13.05	Evaluating the myth of allelopathy in California *Eucalyptus globulus* (Myrtaceae) plantations (Yost) 14.05
2:40 pm	**Snack Break | Imperial Ballroom**				
Room Session	**Marquis 1 & 2 Invasive Plants**	**Marquis 3 Rare Natural Communities**	**Marquis 4 Chaparral**	**Imperial E & F Current Research**	**Marquis 5 & 6 Plant Science**
3:00 pm	100 years of county coordination and statewide eradication of noxious and invasive weed species in California: A brief history (Schoenig) 12.06	Livestock grazing affects vernal pool specialists more than habitat generalists in montane vernal pools on the Modoc Plateau (Bovee) 9.07	Chaparral on Fire: Blazes of 2017 (Keeley) 10.16	Adaptation to divergent competitive environments promotes speciation of serpentine endemics (Sianta) 13.06	Photosynthetic recovery from thermal stress across desert and montane plants (Gallagher) 14.06

3:20 pm	Mi casa es tu casa: The importance of regional-based invasive plant eradications (Knapp) 12.07	Panel: Crossroads for using tools in highlighting California's vegetation, diversity, rarity, and integrity (Keeler-Wolf) 9.08	How healthy is the shrubland? - A simple integrity monitoring protocol for chaparral and coastal sage scrub (Lawson) 10.17	The morphological and ecological variation of *Arctostaphylos* (Ericaceae) fruit: A link between plant ecology and animal foraging behavior (Crowe) 13.07	Genotyping using microsatellites shows strong genetic differentiation among populations of the Channel Islands endemic plant, *Malva assurgentiflora* (Malvaceae) (Guilliams) 14.07
3:40 pm	Matching management strategies to the infestation of a new invasive species *Volutaria tubuliflora* (Asteraceae) in southern California (McDonald) 12.08		Argentine ants - the silent saboteurs of native plant gardens? The possible role of an invasive species in increasing mortality, distribution of weeds, and the spread of disease in native plant landscapes and along the wildland/urban interface (Rubin) 10.18	Spatial association patterns of foundational plants in the east Mojave Desert (Braun) 13.08	Alpine plant community-climate relationships across elevation gradients in the White Mountains, California (Oldfather) 14.08
4:00 pm	From identifying plants to tracking treatments over time, the Calflora Database offers a robust suite of tools for conservationists (Kesel) 12.09		Habitat fragmentation threatens chaparral conservation via negative impacts on pollinators (Davids) 10.19	Functional traits and the drivers of plant species coexistence across a heterogeneous landscape (Kandlikar) 13.09	De-extinction: What the California Native Plant Society is doing to bring back plant species from (presumed) extinction (Magney) 14.09
4:20 pm	Common ground: Connecting public lands and gateway communities with native plant gardens (Baer-Keeley) 12.10		Where to restore the chaparral? The use of ecological and ecosystem service data to prioritize restoration efforts (Molinari) 10.20	Plant-pollinator interactions in strawberry fields forever: Using native plants to boost plant-pollinator interaction diversity in agricultural landscapes (Morrison) 13.10	Three edaphic endemic *Ceanothus* (Rhamnaceae) taxa new to science: What can they tell us about botanical exploration in the California Floristic Province? (Burge) 14.10
5:30 pm	**Cocktail Reception & Silent Auction**				
7:00 pm	**Banquet, Live Auction, & Keynote Speaker: Stu Weiss**				

Friday, February 2 (Continued)

CNPS 2018 Conservation Conference

Saturday, February 3

Technical Sessions At-A-Glance

Room Session	Marquis 1 & 2 Plants & Pollinators	Marquis 3 Emerging Tools	Marquis 4 Quality Environment for All	Imperial E & F Current Research	Marquis 5 & 6 Fire & Native Plants
8:00 am	Introducing the Center for Plant Conservation pollinators of rare plants database and its applications for research, management, and outreach (Heineman) 15.01	Utilization of Fulcrum and IntegraLink to provide stakeholders real-time field survey information leading to increased efficiency and problem-solving in support of conservation efforts (Milbank) 16.01	Piñatas and penstemon: Education and training for Latinos and other underrepresented groups in California native plant conservation and horticulture (Sanchez) 17.01	Taxonomic realignment of *Calystegia* (Convolvulaceae) in California (Namoff) 13.11	Changing fire regime within conifer forests of southern California (Nigro) 18.01
8:20 am	Diet overlap between bee and hummingbird pollinators in California (Hazlehurst) 15.02	Collecting, managing, and reporting environmental data - easy in, easy out - digital technology makes plant conservation and restoration efforts more efficient and more accurate (Jones) 16.02	Eco-social justice field training (Sherwood) 17.02	Evolution of the *Potentilla breweri* (Rosaceae) complex: adaptation, hybridization, and radiation in the Great Basin sky islands (DiNicola) 13.12	Mixed-conifer understory plant diversity patterns across wildfire severity classes and associated ecological characteristics of the Sierra Nevada, CA (Richter) 18.02
8:40 am	Native bee diversity on gabbro soils of the Pine Hill formation, El Dorado County (Burge) 15.03	Calflora provides 21st century tools for conservation science: History stacks track change over time for restoration sites, email alerts when a species of interest is reported in your wildland area of interest, enter a survey area with plants list, and us (Kesel) 16.03	Environmental Justice for Underrepresented Communities' (EJUC) in environmental sciences education at UCD (Fernandez) 17.03	Decrypting phylogenetic placement and specific level relationships from a recent radiation for the CNPS listed rare plant *Mentzelia polita* (Loasaceae) (Cohen) 13.13	Management, protection, restoration, monitoring, and education for the Federal and State Endangered Stebbins' morning-glory (*Calystegia stebbinsii* [Convolvulaceae]) and Federal Endangered and State Rare Pine Hill flannelbush (*Fremontodendron decumbens* [Malvaceae]) in an endemic fire adapted chaparral ecosystem, and candidate Rare Natural Community, in the Sierra Nevada Foothills, Nevada County, CA (Della Santina) 18.03
9:00 am	Characterization of the impacts on bee pollinators from utility-scale solar development in the southwestern deserts: Species abundance, diversity, and community composition (Saul-Gershenz) 15.04	Rancho Santa Ana Botanic Garden contributions to BLM Seeds of Success: Seed collection logistics, strategies, and tools (De Groot) 16.04	The unexpected growth of the nopal (Sanchez) 17.04	The influences of planting time and competition on the flowering phenology of *Lasthenia californica* (Asteraceae) (Olliff Yang) 13.14	Evidence for pre-settlement wildfires in perennial grass-dominated landscapes of the eastern Mojave Desert and implications for fire management in the Mojave National Preserve (McAuliffe) 18.04
9:20 am	The bees are on their knees: A re-examination of the endangered salt marsh bird's beak's insect pollinators, 30 years later (Knapp) 15.05	Using an ArcGIS and CollectorApp mapping project of an endangered plant montane meadow habitat as a basis for an off-highway vehicle damage assessment (Hook) 16.05	Environmental justice communities- how conservation impacts communities at the frontlines of our climate crisis (Hasson) 17.05	A new phylogenomic perspective on *Arctostaphylos* (Ericaceae): Novel chloroplast markers as a potential tool for resolution within the manzanita genus (Guzman-Zaragoza) 13.15	Wild flora and fauna of Griffith Park, Los Angeles, California (Ochoa) 18.05
9:40 am	**Coffee Break | Imperial Ballroom**				
Room Session	**Marquis 1 & 2 "Plants" Without Seeds**	**Marquis 3 Citizen Science**	**Marquis 4 Horticulture**	**Imperial E & F Current Research**	**Marquis 5 & 6 Plant Science**
10:00 am	Biogeography of plants with spores (Palmer) 19.01	University of California's California Naturalist: Supporting community stewardship for conservation of CA native plants (Drill) 20.01	Growing plants in the Mojave Desert, a land trust's perspective (Asbell) 21.01	The effects of cattle grazing on native annual forb persistence in California coastal prairies over 15 years (Lesage) 13.16	A new annotated checklist for the flora of Baja California, Mexico (Rebman) 14.11

10:20 am	Biogeographic trends in moss reproduction (Fisher) 19.02	Using citizen science to understand and protect California's imperiled pollinators (Prince) 20.02	Lessons learned from 12 years of local stewardship in an urban nature park in Southern California (Eisenstein) 21.02	Riparian forest expansion and native oak regeneration after urban development in a Sacramento watershed (Solins) 13.17	The facilitator shrub (*Ephedra californica* [Ephedraceae]) supports native plant communities at precipitation extremes in the deserts of CA (Filazzola) 14.12
10:40 am	Biogeography, systematics and conservation of the *Orthotrichum lyellii* (Orthotrichaceae, Musci) species complex (Caswell-Levy) 19.03	Leaf area, bulb size, flowering, fruiting and seed production in *Hesperocallis undulata* (Agavaceae) (Rideout) 20.03	Introducing the Southern California Montane Botanic Garden (Krantz) 21.03	A vascular flora of the Adobe Valley and surrounding hills, Mono County, CA (Winitsky) 13.18	Advances in our knowledge of plants on the Baja California Pacific Islands (Vanderplank) 14.13
11:00 am	Bryophytes and biological soil crust of the Palos Verdes Peninsula (Uelman) 19.04	The University of California CALeDNA Program: A multi-tiered education initiative generating baselines of community biodiversity from microbes to mammals (Meyer) 20.04	At the edge of California and the edge of existence: How siemprevive de Isla de Cedros (*Dudleya pachyphytum* [Crassulaceae]) was poached ever closer to extinction (Uhler) 21.04	Planting Carex scopulorum (Cyperaceae) seedlings for subalpine meadow restoration (Booher) 13.19	Evaluation of restoration potential in Morro Bay, California under different physical conditions (Aiello) 14.14
11:20 am	Characterization of microbial communities in the Mojave Desert biological soil crust and their association with *Syntrichia caninervis* (Pottiaceae)in hyper- and hypolithic habitats (Jefferson) 19.05	Citizen science helps predict spread of emerging infectious diseases (Garbelotto) 20.05	Water two times a month and call me in the morning: Using scientific (and some not so scientific) data to calculate dry season irrigation in native plant landscapes (Sanchez) 21.05	Seedling recruitment of *Atriplex polycarpa* (Chenopodiaceae) in the San Joaquin Valley of California: The roles of invasive grass competition and their residual dry matter (Coleman) 13.20	Natural history and importance of *Selaginella* (Selaginellaceae) in California (Baniaga) 14.15
11:40 am	**Lunch Break**				
Room Session	**Marquis 1 & 2 "Plants" Without Seeds**	**Marquis 3 Emerging Tools**	**Marquis 4 Horticulture**	**Imperial E & F Marketing for Motivation**	**Marquis 5 & 6 Plant Science**
	What would it take for bryophytes to be conserved like vasculars? (McGregor) 19.06	Developing data collection and analysis tools for rare plant surveys in western San Diego County (Perkins) 16.06	Bee communities associated with California-native and conventional plant nurseries (Cecala) 21.06	Engaging people who (think they) aren't interested in native plants (Novick) 22.01	Forecasting evolutionary trajectories of floral and life history traits in two *Clarkia* (Onagraceae; farewell-to-spring) sister taxa using geographic variation as a proxy for climate change (Schneider) 14.16
1:00 pm	CEQA requires surveys for non-vascular plants and composite organisms too: Lichens can be a significant part of a project site's flora (Magney) 19.07	Growing alliances: Communicating among diverse opinions and disciplines to facilitate conservation (Steinbergs) 16.07	Cultivating plants in botanical gardens for reintroduction (Forbes) 21.07	The Native Plant Conservation Campaign - a national native plant society for the United States (Roberson) 22.02	Patterns of speciation and polyploid formation in manzanitas (Serkanic) 14.17
1:20 pm	Forgotten but not lost - a rare endemic southern California liverwort (*Geothallus tuberosus* [Sphaerocarpaceae]): Distribution, ecology, habitat loss, conservation, and potential for listing (Landis) 19.08	Using specimen data with new quantitative approaches to study spatial patterns of richness and endemism in California's vascular flora (Baldwin) 16.08	Displaying California natives ornamentally: The new island themed garden at the Santa Barbara Botanic Garden (Reed) 21.08	Superbloom or bust: Lessons from a year of golden opportunities in public outreach (Ayalon) 22.03	Relationships and evolution of California Floristic Province *Menthinae* (Lamiaceae), with special focus on Monardella (Drew) 14.18
1:40 pm	A test of micro-climatic niche differences in small understory plants using very small dataloggers (Carter) 19.09	Drought-related die-off of bishop pine (*Pinus muricata* [Pinaceae]) on Santa Cruz Island: The worst yet recorded? (Taylor) 16.09	Producing healthy nursery stock and keeping plants healthy on planting sites (Evans) 21.09	Planting hope: Restoring the ecological function of our communities and supporting bird conservation by landscaping with native plants (Rowden) 22.04	New insights into California monkeyflowers using phylogenomic data (Grossenbacher) 14.19
2:00 pm	Fern and bryophyte conservation hotspots: Assessing ferns as a predictor of bryophyte diversity (Nagalingum) 19.10	Rapid development of population genetic resources for California rare plants using next-generation sequencing (Der) 16.10	A 100-acre urban landscaping potential: Native gardening at the Housing Authority of the City of Los Angeles (Becker) 21.10	CANCELLED 22.05	Eighty years and 2,500 collections: Flora of the Upper Rock Creek watershed, eastern Sierra Nevada (England) 14.20
2:40 pm	**Snack Break | Imperial Ballroom**				
3:00 pm	**Closing Plenary Talks: Best Kept Secrets! Carolyn Malmstrom, Blair McLaughlin, Kim Stanley Robinson | Marquis Ballroom**				