

8<sup>TH</sup> INTERNATIONAL

**Plant Gall SYMPOSIUM 2023** JULY 10–15 | CALIFORNIA STATE UNIVERSITY, CHICO

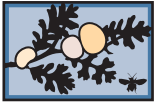
## Symposium Schedule at a Glance

### Monday, July 10

|               |  |  |
|---------------|--|--|
| 8:00AM–5:30PM | <b>Check-in and Registration</b> ..... | Colusa Hall  |
| 5:30PM–7:00PM | <b>Welcome Reception</b> .....         | Arts & Humanities Building, 2 <sup>nd</sup> Floor Critique Space |

### Tuesday, July 11

|                |  |             |
|----------------|--|-------------|
| 8:30AM–9:30AM  | <b>Welcome</b> .....   | Colusa Hall |
|                | <ul style="list-style-type: none"><li>▪ <b>He-Lo Ramirez</b>, Mechoopda Indian Tribe of Chico Rancheria, <i>Invocation</i></li><li>▪ <b>Matt Buffington, Don Miller, Carol Mapes, &amp; Sarah Melissa Witiak</b>, <i>A Brief History of the Symposium</i></li></ul>  |             |
| 9:30AM–11:50AM | <b>Session 1: Biodiversity &amp; Biogeography I</b> .....  | Colusa Hall |
|                | <i>See page xx for Session 1 abstracts.</i>  |             |
|                | <ul style="list-style-type: none"><li>▪ 9:30–9:50 <b>Netta Dorchin, Presenter</b><br/>Fleshy beauties – uncovering the megadiverse fauna of gall midges on succulent Aizoaceae in Southern Africa</li><li>▪ 9:50–10:10 <b>Valery Korneyev, Presenter</b><br/><i>Myopites</i>, the last unrevised genus of the Old World gall tephritids (Diptera: Tephritidae: Myopitini): refining core, expanding boundaries</li><li>▪ 10:10–10:30 <b>Adam Kranz, Presenter</b><br/>Recruiting an International Gallhunter Network</li><li>▪ 10:30–10:50 <i>Coffee Break</i></li><li>▪ 10:50–11:10 <b>Maria Virginia Urso-Guimarães, Presenter</b><br/>Entomogenous plant gall inventories in Brazil – perspectives and challenges</li><li>▪ 11:10–11:30 <b>Gene-Sheng Tung, Presenter</b><br/>Utilizing citizen science to explore the invasive galling insects distribution and their effects on ecosystem health</li><li>▪ 11:30–11:50 <b>Leah Samuels, Presenter</b><br/>Gall wasp communities on white oaks</li></ul> |             |
| 11:50AM–1:00PM | <b>Lunch On Your Own</b>   |             |
| 1:00PM –2:00PM | <b>Poster Session I &amp; Book Signing</b> .....   | Colusa Hall |



8<sup>TH</sup> INTERNATIONAL

# Plant Gall SYMPOSIUM 2023 JULY 10-15 | CALIFORNIA STATE UNIVERSITY, CHICO

2:00PM-4:40PM

## Session 2: Cynipid Systematics and Taxonomy ..... Colusa Hall

- 2:00-2:20 **Jose Luis Nieves-Aldrey, Presenter**  
Molecular systematics of the gall-inducing genus *Plagiotrochus* Mayr (Hymenoptera: Cynipidae: Cynipini)
- 2:20-2:40 **James Nicholls, Presenter**  
Recent advances in the genus- and species-level molecular systematics of the Cynipini
- 2:40-3:00 **Victor Cuesta-Porta, Presenter**  
Unraveling morphological disparity and molecular relationships within *Amphibolips* (Hymenoptera: Cynipidae: Cynipini)
- 3:00-3:20 *Coffee Break*
- 3:20-3:40 **Charles Davis, Presenter**  
Giving the Diastrophini some much needed attention: understanding speciation and host-plant use in *Diastrophus* (Cynipidae) herb galls
- 3:40-4:00 **Zoltan Laszlo, Presenter**  
Integrative taxonomy of Western Palearctic rose gall inducers
- 4:00-4:20 **Louis Nastasi, Presenter**  
Dist-herb-ing the peace: adventures in *Silphium* herb gall wasps
- 4:20-4:40 **Graham Stone, Presenter**  
Structure and composition of tritrophic communities associated with Fagaceae-feeding cynipid gallwasps in Sichuan, China

4:40PM-6:00PM

### Lower Bidwell Park Excursion

Walk with the group (1.2mi/2km) or meet at the south parking lot just up from the 4<sup>th</sup> and Cypress St. entrance.

6:00PM

### Dinner On Your Own

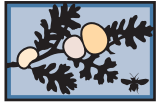
Downtown Chico is a short walk from campus and Bidwell Park and offers a variety of restaurants.

## Wednesday, July 12

8:30AM-4:00PM

### Excursion to Big Chico Creek Ecological Reserve

- 8:30 **Depart** for Reserve. Meet at 2<sup>nd</sup> & Chestnut parking lot (see map) or drive on your own
- 9:00-Noon **Gall collecting** and exploring in groups
- Noon-1:00 **Box lunch** at The Barn
- 1:00-4:00 **Creating art** with oak galls (“oak apples”) or more gall collecting. Artisan John Wiggins will lead the art activity in The Barn.
- 4:00 **Depart** from Reserve. Return to campus.



8<sup>TH</sup> INTERNATIONAL

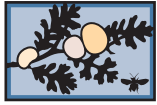
# Plant Gall SYMPOSIUM 2023 JULY 10–15 | CALIFORNIA STATE UNIVERSITY, CHICO

6:00PM

**Dinner at Madison Bear Garden** ..... 316 West 2<sup>nd</sup> Street  
Optional and on your own.

## Thursday, July 13

- 8:30AM–9:00AM **Distinguished Speaker: Dr. Raymond J. Gagné** ..... Colusa Hall  
*Why are gall midges so successful?*
- 9:00AM–9:30AM **In Conversation with Dr. Raymond Gagné, Moderated by Matt Buffington** ..... Colusa Hall
- 9:30AM–9:50AM **Coffee Break**
- 9:50AM–11:10AM **Session 3: Ecology & Evolution I** ..... Colusa Hall
- 9:50–10:10 **Timothy Craig & Joanne Itami, Presenters**  
Testing the local adaptation hypothesis in the gall-inducing fly *Eurosta solidaginis* and its natural enemies
  - 10:10–10:30 **Arthur Weis, Presenter**  
Shift in climate, shift in selection: experimentally elevated temperatures intensify directional selection on gall size in the goldenrod gallfly system
  - 10:30–10:50 **John Tooker, Presenter**  
Convergence between ant-mediated seed and oak gall dispersal
  - 10:50–11:10 **Christopher Ivey, Presenter**  
Plant vigor and phenological synchrony explain variation in defense against galling cynipid wasps of valley oak (*Quercus lobata*) in a large common garden experiment
- 11:10AM–Noon **Group Photo**
- Noon–1:00PM **Lunch On Your Own**
- 1:00PM–3:20PM **Session 4: Biodiversity & Biogeography II** ..... Colusa Hall
- 1:00–1:20 **Miki Hisano, Presenter**  
Host associated diversification of *Aprostocetus* (Hymenoptera: Eulophidae) that parasitizes *Rhopalomyia* (Diptera: Cecidomyiidae) in Japan
  - 1:20–1:40 **Makoto Tokuda, Presenter**  
Historic outbreaks of the gall midge *Schizomyia castanopsisae* (Diptera: Cecidomyiidae) in Japan: potential mechanism and recent range expansion
  - 1:40–2:00 **Carol Mapes & Joshua Lawrence, Presenters**  
Non-native and invasive gall-inducing insects in North America
  - 2:00–2:20 *Coffee Break*
  - 2:20–2:40 **Chandra Moffat, Presenter**  
Ubiquity of gall forming insects in successful weed biocontrol programs
  - 2:40–3:00 **Conner Lay, Presenter**  
Host-parasite coevolution in the sky islands



8<sup>TH</sup> INTERNATIONAL

# Plant Gall SYMPOSIUM 2023 JULY 10-15 | CALIFORNIA STATE UNIVERSITY, CHICO

- 3:00-3:20 **Man-Miao Yang, *Presenter***  
Insect galls on Asteraceae in Taiwan: diversity, sampling strategy, and host association

3:20PM-3:40PM **Coffee Break**

3:40PM-5:00PM **Session 5: Physiology & Development I** ..... Colusa Hall

- 3:40-4:00 **Paul Nabity, *Presenter***  
Host defense manipulation as an extended parasite phenotype
- 4:00-4:20 **Heather Hines, *Presenter***  
Comparative -omics approach to understanding the role of venom glands in gall induction in gall wasps (Hymenoptera: Cynipidae)
- 4:20-4:40 **Edward Connor, *Presenter***  
How insects induce galls: secreted phytohormones and meristem manipulation
- 4:40-5:00 **Misha Mangila, *Presenter***  
Investigating the molecular basis of development of a scale insect-induced gall

5:00PM **Optional Evening Excursions & Dinner On Your Own**

Additional Lower Bidwell Park visit.  
Downtown Chico Thursday Night Market with food & drink vendors and live music.

## Friday, July 14

8:30AM-10:15AM **Breakfast at the Gateway Science Museum** ..... See Map  
Bumblebee exhibit & guided tour of pollinator garden, including plant galls.

10:30AM-11:30AM **Session 6: Physiology & Development II** ..... Colusa Hall

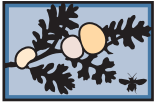
- 10:30-10:50 **Tatsuya Ide, *Presenter***  
Continuous observation of the formation of the internal air space of cynipid galls by micro-CT
- 10:50-11:10 **Glen Hood, *Presenter***  
Ento-phyto-screening: developing insect-induced plant galls as a novel tool for tracking organic chemical contaminants in the subsurface
- 11:10-11:30 **Xin Tong, *Presenter***  
Insights into early gall organogenesis by woolly aphids

11:30AM-1:00PM **Working Lunch**

1:00PM-2:00PM **Poster Session II** ..... Colusa Hall

2:00PM-4:40PM **Session 7: Ecology & Evolution II** ..... Colusa Hall

- 2:00-2:20 **Graham Stone, *Presenter***  
Phylogenetic and non-phylogenetic structure in trophic links between gall-forming herbivores and their parasitoid natural enemies



8<sup>TH</sup> INTERNATIONAL

# Plant Gall SYMPOSIUM 2023 JULY 10-15 | CALIFORNIA STATE UNIVERSITY, CHICO

- 2:20-2:40 **Andrew Forbes, Presenter**  
Gall wasps escaping wasps face attack from other wasps
- 2:40-3:00 **Matt Buffington, Presenter**  
What do we know, and what don't we know, about gall-inducing Hymenoptera?
- 3:00-3:20 *Coffee Break*
- 3:20-3:40 **James Nicholls, Presenter**  
Evolution of host-plant associations and biogeographic patterns on a global scale within the oak gall wasps
- 3:40-4:00 **Yael Kenigsberg, Presenter**  
Do C4 Chenopodiaceae constitute superior hosts for gall-inducing midges in harsh environments?
- 4:00-4:20 **Andrew Deans, Presenter**  
A glossary of gall terms
- 4:20-4:40 **Donald Miller, III, Presenter**  
Ecology and behavior of three new species of *Tamalia* gall aphids

5:30PM-9:00PM **Farewell Dinner** ..... Grana Restaurant, 198 East 2<sup>nd</sup> Street

## Saturday, July 15

9:00AM-10:00AM **Looking to the Future: 9<sup>th</sup> International Gall Symposium** ..... The HUB, See Map

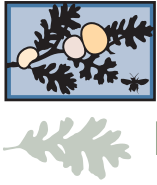
## A Little Something Extra

### Gratuitous Gall-isms

Contextual gall-ism as observed through random pop cultural samplings. In reference to the exploiting of different possible meanings of a word or the fact that there are words which sound alike but have different meanings for the singular purpose of laughter. Enjoy!

🌿 Galls Just Want to Have Fun! 🌿 Galls Gone Wild 🌿 Be a Galler! 🌿 Big Galls  
 Don't Cry 🌿 Oh My Gall! 🌿 Wish they All Could be California Galls 🌿 Wrecking  
 Gall 🌿 Good Galls Gone Bad 🌿 Great Galls of Fire 🌿 Gall of the Wild 🌿 Gall  
 of Confusion 🌿 The Gall Next Door 🌿 In Gall We Trust 🌿 Chariots of the Galls  
 🌿 Gall Interrupted 🌿 Gall in the Family 🌿 The Gall-Father 🌿 Galls of Wrath 🌿





8<sup>TH</sup> INTERNATIONAL

**Plant Gall SYMPOSIUM 2023** JULY 10–15 | CALIFORNIA STATE UNIVERSITY, CHICO

## Posters

- 1. Diversity of insect galls on sagebrush (*Artemisia spp.*) in Southeastern Idaho**  
Sarah Melissa Witiak | Virginia State University, USA
- 2. New species of *Lopesia* Rübsaamen (Diptera: Cecidomyiidae) inducing galls on *Anadenanthera colubrina* (Vell.) Brenan (Fabaceae) from Brazil**  
Maria Virginia Urso-Guimarães | Universidade Federal de São Carlos, Brazil
- 3. An experimental study into the effect of photoperiod and temperature on the Cape Ivy Galling Fly (*Parafreutreta regalis*) and implications for the biological control of Cape Ivy (*Delairea odorata*)**  
Madeline Holroyd | University of California, Santa Barbara, USA
- 4. Phylogenetic studies and DNA barcoding of the chestnut gallwasp *Dryocosmus kuriphilus* Yasumatsu (Hymenoptera: Cynipidae: Cynipini) in the Eastern United States**  
Chang-Ti Tang | The George Washington University, USA
- 5. *Tamalia* gall aphids and their host plants, *Arctostaphylos* spp., as part of California's landscapes: The California Conservation Genomics Project (CCGP)**  
Donald Miller, III | California State University, Chico, USA
- 6. Ecological succession as evidenced by colonization of *Arctostaphylos* host plants by *Tamalia* gall aphids**  
Donald Miller, III | California State University, Chico, USA
- 7. Impact of galling intensity by Cecidomyiidae on quantitative response of foliage phytochemicals and performance**  
Man-Miao Yang | National Chung Hsing University, Taiwan
- 8. Developmental mechanisms of psyllid spherical galls on the leaves of *Machilus japonica* var. *kusanoi***  
Meng-Yuan Huang | National Chung Hsing University, Taiwan
- 9. Defensive mechanisms of psyllid spherical galls on the leaves of *Machilus japonica* var. *kusanoi***  
Meng-Yuan Huang | National Chung Hsing University, Taiwan
- 10. Resolving species complexes in white oak gall wasps (Cynipini)**  
Antonio Casadei | Pennsylvania State University, USA
- 11. Interactions with ants and aggregated oviposition are not always beneficial for *Disholcaspis elderadensis*, a sucrose-secreting cynipid gall wasp of valley oak (*Quercus lobata*)**  
Christopher Ivey | California State University, Chico, USA