

Launching the Global Locust Initiative (GLI) at Arizona State University

Identifying the Institutional Framework and Opportunities to
Influence Policy Change in Locust Research and Management

April 12-14, 2018

Program Guide and Schedule



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Contacts and more information

Global Locust Initiative website: locust.asu.edu

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Point-of-Contact During Event

During the event, if you have any immediate needs or questions, please email
locust.asu@gmail.com

The Event

Participants will have the opportunity to meet and network with a diverse set of global stakeholders, share their research through talks and posters, engage early with an up and coming initiative, and help shape the future direction of this new initiative through workshop and synthesis discussions.

Attending Remotely

Participants may attend the presentations and the synthesis discussions virtually through Vidyo. Recordings of the presentations and the synthesis discussions will also be available after the event

To connect online, use any of the following options:

- If you are an ASU Vidyo user, find "Global Locust Initiative" in the Vidyo Directory, and Connect to the Room.
- If you are a guest, we recommend downloading and installing the VidyoDesktop application from <https://asu.idsflame.com/download.html>. Run that application and leave it at the login screen with all fields blank.
- To join from your desktop or mobile device: Click <http://asu.idsflame.com/flex.html?roomdirect.html&key=NBaVZoMXml>
- If you do not have the VidyoDesktop application running, the link will prompt you to install the VidyoWeb Browser Plug-in. Once installed, please return to this email, and click on the link above again to join the meeting.

To join from your phone:

- Dial 480-884-1557, listen for the prompt, PRESS 1 TO JOIN A CONFERENCE, then enter 10557145 and #.

NOTE: If joining from the phone and watching on your computer, please be sure your computer speakers and microphone are muted!

To join from a non-Vidyo conferencing endpoint:

- Connect to 149.169.149.135, use H.323 or SIP, and enter meeting ID 10557145

Participants

Attendees will include individuals with expertise or interest in grasshoppers and locusts, transboundary pest issues, integrated pest management (IPM), landscape-level processes, working at the community level, food security, sustainable food systems, and/or cross-sectoral initiatives.

Outcomes

Participants of the event will have the opportunity to engage early with the GLI and help shape the future direction of this new initiative through break-out and synthesis discussions. These discussions will also contribute to two products, and everyone is welcome to help finalize and serve as a co-author as time and interest allows after the event. See "Break-Out Discussions" for more details.

- A draft of a scholarly review comparing the structure and function of organizations and institutions working in the locust/grasshopper space, highlighting potential opportunities for the GLI to be complementary to existing organizations
- A draft a policy brief directed towards influencers in the U.S.-based policy realm

Registration

The event is free to attend for all interested parties. We will accept donations to offset travel costs for stakeholders traveling from the global south and for students. Please contact us for more information.

Please see the schedule for locations and times of onsite registration; you must register at one of the allotted times to receive your registration materials and discussion assignments.

Navigating ASU's Campus

Most activities will take place in [Wrigley Hall](#) on the ASU campus. Please see the official schedule for all activity locations and ask the GLI Volunteers if you have any questions. ASU also has an interactive virtual map that is user friendly on any mobile device:

<https://www.asu.edu/map/interactive/>

Presentation Guide

Oral Presentations

All oral presentations will be 15 minutes, inclusive of time for questions. Please plan accordingly, as speakers are asked not to go over time. Screens may accommodate standard size or widescreen PowerPoint presentations (or other slide presentation software).

Please submit your presentations to Dr. Ariel Rivers via [WeTransfer](#) (free file transfer service) by **12:00 PM, Wednesday, April 11, 2018**.

Poster Presentations

Please format your posters as 48 inches (122 cm) by 36 inches (92 cm). We will use magnets to display them on the room wall. Presenters may choose the content and structure of their posters as appropriate for their presentation. Posters will be displayed all day, with a focused networking session on Friday afternoon, 4:00 – 5:00 PM, for which we ask presenters to stand by their posters for any questions.

Local Information

Weather

It will be warm in Tempe in April. Please check [AccuWeather.com](#) or a similar site, and note that temperatures are expected above 90°F (>30°C) during the week of the event.

Transportation

Most Tempe hotels are approximately 15-20 minutes by car from the airport. Uber, Lyft, and taxis are available at the airport. The Valley Metro Light Rail also operates between the airport and downtown Tempe.

[Free Orbit bus system](#) - Operates within Tempe

The Valley Metro Light Rail

From the airport:

Take the FREE PHX Sky Train® from Terminal 3 or 4 to the 44th Street PHX Sky Train® Station. From there, follow the walkway with moving sidewalks on level 2 to the elevator and escalator down to the Valley Metro Rail platform at 44th Street and Washington. If you are traveling from Terminal 2, take the walkway between Terminals 2 and 3 to the Terminal 3 PHX Sky Train® station.

From the platform at 44th Street and Washington take the East bound train into Tempe. The closest stop to Wrigley Hall is Veterans Way & College Ave. Walk straight down College Avenue and Wrigley Hall will be the first building on your right just South of University Dr.

Valley Metro Rail operates from early morning to late at night:

- Monday – Thursday: 4 a.m. – midnight
- Friday: 4 a.m. – 2 a.m.
- Saturday: 5 a.m. – 2 a.m.
- Sunday: 5 a.m. – 11 p.m.

Trains arrive every 12-20 minutes depending on day and time.

Favorite Eats

There are many great restaurants within walking distance from ASU campus between Mill Avenue and Collage Avenue. Here are some recommendations and a full list of options here:

<https://www.tempetourism.com/food-and-drinks>

Original ChopShop

New American Restaurant

Cafe with outdoor seating, serving health-conscious juices, salads & sandwiches, plus beer & wine; 2 min walk from Wrigley Hall · 222 E University Dr

Postino

Italian · Happy hour food; 5 min walk from Wrigley Hall · 615 S College Ave

Phoenicia Cafe

Mediterranean; 4 min walk from Wrigley Hall · 616 S Forest Ave

House of Tricks

1920s bungalow & New American fare · Happy hour food · Outdoor seating; 5 min walk from Wrigley Hall · 114 E 7th St

Pitchforks & Corks

Sandwiches/Salads · Small plates · Quick bite · Drinks; 3 min walk from Wrigley Hall · 660 S College Ave

Staying the whole weekend?

Desert Botanical Garden

1201 N Galvin Pkwy, Phoenix, AZ 85008
8am-8pm

Camelback Mountain Hike

6131 E Cholla Ln, Paradise Valley, AZ 85253
6:30am-6:30pm

South Mountain Preserve

Main Entrance 10211 S. Central Ave
5am-7pm

Quartz Ridge Trail #8A

Lincoln Drive to 32nd St. Turn left (North) on 32nd Street and immediately turn right into the Trailhead parking lot.
Sunrise to Sunset

Abstracts

A complete list of abstracts will be available after the event.

Schedule

The schedule is tentative and may be subject to change.

Optional Activities on Wednesday, April 11, 2018

Location	Time	Activity
Meet in Wrigley Hall Breezeway	9:00 AM-11:00 AM	Optional tour of local United States Department of Agriculture, Animal Plant Health and Inspection Service, Center for Plant Health and Science and Technology Laboratory . Please sign-up here: Sign-Up for Tour of CPHST Phoenix Lab
Wrigley Hall Breezeway	11:00 AM-3:00 PM	Event registration
Wrigley Hall 481	12:00-1:15 PM	Sustainability Series Presentation by Dr. Cathy Waters, Climate Research Leader, New South Wales Department of Primary Industries, Australia Lunch will be provided, but you must RSVP on the event page, here: Livestock: A Cause of or Cure for Land Degradation?
Postino	At will	Suggested restaurant for no host dinner. Postino is close to campus, with Italian food and happy hour specials Located at: 615 S. College Ave., Tempe, AZ

Thursday, April 12, 2018

Location	Time	Activity
Wrigley Hall Patio	10:00 AM-12:30 PM	Public outreach event, to include live grasshoppers, opportunities to engage with scientists, locust displays and more. All attendees are welcome to attend.
Wrigley Hall 481	12:30-2:30 PM	Registration, and meeting location for locust facility tours
College Commons	3:00-4:00 PM	Panel Q&A: Impact of Locusts - Global to Local Speakers from six regions, plus the United Nations, will give an overview of the Acridid challenge in specific regions, then discuss ways forward and the potential roles for GLI. Panel Speakers: Arianne Cease (Moderator), <i>Founding Director, Global Locust Initiative</i> Aliou Diongue , <i>World Food Programme, Cameroon, Africa</i> Chris Adriaansen , <i>Australian Plague Locust Commission, Australia</i> Long Zhang , <i>Chinese Agricultural University, China</i> Cecilia Catenaccio , <i>Argentine National Service of Agri-Food Health and Quality (SENASA), Latin America</i> Derek Woller , <i>USDA, Animal & Plant Health Inspection Service (APHIS), North America</i> Alex Latchininsky , <i>University of Wyoming, Russia, Central Asia & Caucasus</i> Annie Monard , <i>Food and Agriculture Organization (FAO) of the United Nations</i>
College Commons	4:00-5:00 PM	Official Welcome Ceremony
Rúla Búla	At Will	Suggested restaurant for no host dinner (Irish food). Located at (15-minute walk from campus): 401 S. Mill Ave., Tempe, AZ

Friday, April 13, 2018

Location	Time	Activity
		<i>Only presenting authors are indicated in bold. See list of abstracts for complete author list (published after the conference).</i>
Wrigley Hall L1-04	7:30 AM	Networking coffee and registration – <i>light snacks provided by GLI</i>
	8:00 AM	Introduction to Global Locust Initiative and the event Arianne Cease; Ariel Rivers <i>Global Locust Initiative (GLI), USA</i>
	8:30 AM	What can history contribute to the GLI? Ted Deveson <i>Australia Plague Locust Commission, Australian National University</i>
	8:45 AM	Linking locust activity to land degradation in the Australian rangelands Cathy Waters <i>New South Wales Department of Primary Industries, Australia</i>
	9:00 AM	A coupled natural human systems approach to addressing locust plagues Arianne Cease <i>Global Locust Initiative, USA</i>
	9:15 AM	Locust control in Central Asia - an overview Alex Latchininsky <i>University of Wyoming, USA</i>
	9:30 AM	Locusts and grasshopper management in China Long Zhang <i>China Agricultural University, China</i>
	9:45 AM	South American locusts: a crisis that creates opportunities Cecilia Catenaccio <i>National Service of Agri-Food Health and Quality (SENASA), Argentina</i>
	10:00 AM	Current situation, perspectives and challenges of <i>Schistocerca piceifrons</i> in Central America Mario Poot Pech <i>Yucatán State Plant Protection Committee, Mexico</i>
	10:15 AM	BREAK
	10:30 AM	Locust research for preventive management: CIRAD's perspective Cyril Piou <i>CIRAD, Centre for Biology and Management of Populations, France</i>
	10:45 AM	FAO & locust management Annie Monard <i>UN Food and Agriculture Organization, Italy</i>
	11:00 PM	WFP-Comprehensive Food Security and Vulnerability Analysis (CFSVA): a useful tool to identify and confirm food insecurity issues including post-harvest losses due to agricultural pests in the Far North region of Cameroun Aliou Diongue <i>World Food Program, Cameroon</i>
	11:15 AM	Rangeland grasshopper management in the U.S.A.: past, present, and future Derek Woller <i>USDA, Animal and Plant Health Inspection Service (APHIS), USA</i>
	11:30 AM	Unmanned aircraft systems in agriculture: applications and limitations in area-wide integrated pest management Nathan Moses-Gonzales <i>M3 Consulting, Phoenix, AZ, USA</i>
	11:45 AM	Trends in a new site-based grasshopper survey database in Alberta, Canada, 1970 to 2016 Dan Johnson <i>Lethbridge University, Canada</i>
Wrigley Hall 481	12:00 PM	LUNCH – <i>Provided by GLI</i>

Friday, April 13, 2018 - Continued

Location	Time	Activity
Wrigley Hall	1:00 PM	Break-out Sessions: Regional Discussions
Wrigley Hall 481	3:00 PM	Whole Group Discussion: Synthesis
Wrigley Hall 481	4:00 PM-5:00 PM	Poster Session <i>Only presenting authors are indicated in bold. See list of abstracts for complete author list (published after the conference).</i>
		Field tests of a microbial control agent based on locally isolated <i>Metarhizium</i> , for protection of airports and crops Dan Johnson <i>Lethbridge University, Canada</i>
		Biogeography and mapping of late-season population density of grasshoppers in the agricultural zone of Alberta, Canada: 47 years, 73,000 survey sites Dan Johnson <i>Lethbridge University, Canada</i>
		Markov chain analysis of 32 years of grasshopper infestations in 25 counties and districts in Alberta, Canada Dan Johnson <i>Lethbridge University, Canada</i>
		Locust and tree interactions in Australian rangelands Douglas Lawton <i>Arizona State University, USA</i>
		Oxygen's role in setting the thermal niche of the South American locust (<i>Schistocerca cancellata</i>) Jacob Youngblood <i>Arizona State University, USA</i>
		The effects of flight on macronutrient balance of the Australian plague locust, <i>Chortoicetes terminifera</i> Deanna Zembrzusi <i>Arizona State University, USA</i>
		Two Molecular Olfaction Pathways Independently Detecting to One Aldehyde in Locust Mouthpart Long Zhang <i>China Agricultural University, China</i>
Pitchforks and Corks	5:30 PM-6:30 PM	Sustainability Scholars and Scientists Happy Hour. Appetizers and drinks provided. Located a 5-minute walk from campus: 660 S. College Ave., Tempe, AZ

Saturday, April 14, 2018

Location	Time	Activity
		<i>Only presenting authors are indicated in bold. See list of abstracts for complete author list (published after the conference).</i>
Wrigley Hall 101	7:45 AM	Light snacks provided by GLI
	8:00 AM	Panel: lessons learned from locust research in coupled natural and human systems Arianne Cease (moderator); Jim Elser ; Joleen Hadrich ; Brian Robinson ; Eli Fenichel ; Kevin Berry <i>Various Institutions, USA and Canada</i>
	9:00 AM	Mechanisms of phase change in the Australian plague locust, <i>Chortoicetes terminifera</i> Stephen Rogers <i>University of Cambridge, UK</i>

Saturday, April 14, 2018 - Continued

Location	Time	Activity
	9:15 AM	Novel insights into understanding the evolution of locust phase polyphenism based on phylogenomic data Hojun Song <i>Texas A&M University, USA</i>
	9:30 AM	Density-dependent yellowing prevents mistaken sexual identity in swarming locusts. Darron Cullen <i>KU Leuven, Belgium</i>
	9:45 AM	Importance of solitary desert locust population dynamics: lessons from historical survey data in Algeria Mohammed Lazar <i>National Institute of Plant Protection, Algeria</i>
	10:00 AM	Synthesis of research activities on <i>Oedaleus senegalensis</i> (Krauss, 1877) and <i>Schistocerca gregaria</i> (Forskäl, 1775), two important pests in the Sahel Amadou Bocar Bal <i>Gaston Berger University, Senegal</i>
	10:15 AM	BREAK
	10:30 AM	Ecology and egg survival strategies of the Senegalese grasshopper <i>Oedaleus senegalensis</i> (Krauss, 1877), during the dry season in the Sahel in West Africa Idrissa Maiga <i>Aghrymet Regional Center, Niger</i>
	10:45 AM	Linking land use and the nutritional ecology of locusts: the case of the Senegalese locust (<i>Oedaleus senegalensis</i>) Marion Le Gall <i>Arizona State University, USA</i>
	11:00 AM	Weather and food as drivers of grasshopper population dynamics, with implications for cultural management practices in the Western U.S. Dave Branson <i>USDA, Agricultural Research Service (ARS), USA</i>
	11:15 AM	The use of biopesticides as part of IPM of locusts and grasshoppers David Hunter <i>Locust and Grasshopper Control, Australia</i>
	11:30 AM	Naturalized biocontrol agent may help in the management of pest grasshoppers and locusts in Argentina Carlos Lange <i>CEPAVE, National University of La Plata, Argentina</i>
	11:45 AM	Studies on <i>Schistocerca cancellata</i> (Orthoptera: Acrididae) in Argentina Maria Marta Cigliano <i>CEPAVE, National University of La Plata, Argentina</i>
	12:00 PM	Fast locust-tour across the resurgence of <i>Schistocerca cancellata</i> (Serville) in Argentina. Actions, questions, hypotheses and research needs Eduardo Trumper <i>National Institute of Agricultural Technology (INTA), Argentina</i>
	12:15 PM	Introduction to afternoon discussion Arianne Cease; Ariel Rivers
Wrigley Hall	12:30 PM	LUNCH – Provided by GLI
Wrigley Hall	1:30 PM	Break-Out Sessions: Disciplinary and Interdisciplinary Discussions
Wrigley Hall 481	4:00 PM-5:00 PM	Whole Group Discussion: Synthesis and Conclusions of Event
Boulder's on Broadway	6:00 PM	Conference celebration and wrap-up. Appetizers will be provided by GLI. Located at: 530 W. Broadway Ave., Tempe, AZ

Break-Out Discussions

On Friday and Saturday, the GLI leadership team has organized a series of discussions to provide subject matter to include within the two written products we will generate as a result of the event (a draft scholarly review and a draft policy brief; see **Outcomes** for more information). We welcome anyone who is willing to stay involved to serve as a co-author in the development of the two products; please notify Dr. Ariel Rivers or Dr. Arianne Cease if you would like to participate after the event.

Event participants are assigned to specific discussion groups; please see the registration list at the end of this document for your assignment. Contact Dr. Ariel Rivers or Dr. Arianne Cease if you did not receive an assignment or if you feel you should be assigned to a different group.

An assigned group facilitator will receive a schedule and discussion prompts. Please review the guiding questions for each day to appropriately prepare for the discussions

Friday, April 13, 2018

Discussion Theme:	Regional Institutions Involved in the Locust and Grasshopper Space	
Time:	1:00 – 3:00 PM	
Guiding Questions:	Broadly, what institutions currently operate in the areas of locust and grasshopper management, research, etc. in your region?	
	Within your region, what are the strengths and weaknesses of the existing institutional structure?	
	In an ideal world, what is your 5 year vision for locust and grasshopper institutions in your region?	
Regional Groups and Meeting Locations	Africa	Wrigley Hall 401
	Asia	Wrigley Hall 102
	Australia	Wrigley Hall 418
	Latin America	Wrigley Hall 323
	North America	Wrigley Hall 481

Saturday, April 14, 2018

Discussion Theme:	Disciplinary and Interdisciplinary Discussions	
Time:	1:30 – 4:00 PM	
Guiding Questions:	What advances have been most important in your discipline?	
	What are the most important future questions and/or challenges to address in your discipline?	
	What new opportunities would working in interdisciplinary and cross-sectoral teams provide? What workshops would you recommend GLI hosting to support these advancements?	
	What are major policy-related barriers in your field?	
Expert Groups and Meeting Locations	Biocontrol	Wrigley Hall 102
	Ecology	Wrigley Hall 323
	New and Alternative Technologies	Wrigley Hall 401
	Physiology, Evolutionary Biology, and Systematics	Wrigley Hall 308
	Population Dynamics and Modeling	Wrigley Hall 408
	World Institutions	Wrigley Hall 481

Conference Participants

This list reflects registered participants as of April 6, 2018 and is subject to change. Participants are listed alphabetically by first name.

First Name	Country	Institution/Organization	Friday Discussion Group	Saturday Discussion Group
Alex Latchinsky	USA	University of Wyoming	Asia	New and Alternative Technologies
Aliou Dioungue	Cameroon	World Food Programme, Cameroon	Africa	World Institutions
Amadou Bocar Bal	Senegal	University of Gaston Berger	Africa	Ecology
Annie Monard	Italy	Food and Agriculture Organization (FAO) of the United Nations	Asia	World Institutions
Annie Swank	USA	University of Houston - Clear Lake	Latin America	New and Alternative Technologies
Arianne Cease	USA	Arizona State University		
Ariel Rivers	USA	Arizona State University		
Balanding Manneh	USA	Arizona State University	Africa	World Institutions
Bert Foquet	USA	Texas A&M University	Phase Change	
Brian Robinson	Canada	McGill University		World Institutions
Britt Peterson	USA	Center for Insect Science, University of Arizona		Physiology, Evolutionary Biology, and Systematics
Carlos Lange	Argentina	Center for Parasitological and Vector Studies (CEPAVE), La Plata University	Latin America	Ecology
Cathy Waters	Australia	New South Wales Department of Primary Industries	Australia	New and Alternative Technologies
Cecilia Catenaccio	Argentina	National Service of Agri-Food Health and Quality (SENASA)	Latin America	World Institutions
Chris Adriaansen	Australia	Australian Plague Locust Commission (APLC)	Australia	World Institutions
Chris Reuter	USA	USDA, Animal & Plant Health Inspection Service (APHIS)	North America	Physiology, Evolutionary Biology, and Systematics
Cyril Piou	France	Agricultural Research Centre for International Development (CIRAD)	Africa	Population Dynamics and Modeling

First Name	Country	Institution/Organization	Friday Discussion Group	Saturday Discussion Group
Dan Johnson	Canada	University of Lethbridge	North America	
Darron Cullen	Belgium	KU Leuven	Phase Change	Physiology, Evolutionary Biology, and Systematics
Dave Branson	USA	USDA, Agricultural Research Service (ARS)	North America	Population Dynamics and Modeling
David Hunter	Australia	Orthopterists' Society	Asia	Biocontrol
Deanna Zembrzuski	USA	Arizona State University	North America	Physiology, Evolutionary Biology, and Systematics
Derek Woller	USA	USDA, Animal & Plant Health Inspection Service (APHIS)	North America	Biocontrol
Douglas Lawton	USA	Arizona State University	Australia	Ecology
Eduardo Trumper	Argentina	National Institute of Agricultural Technology (INTA)	Latin America	Population Dynamics and Modeling
Eli Fenichel	USA	Yale University	North America	
Esteve Giraud	USA	Arizona State University	Africa	Population Dynamics and Modeling
Hojun Song	USA	Texas A&M University	Phase Change	
Idrissa Maiga	Niger	Agrhymet Regional Center	Africa	Ecology
Jacob Youngblood	USA	Arizona State University	Asia	Physiology, Evolutionary Biology, and Systematics
Jim Elser	USA	Arizona State University	Asia	
John Connett	USA	University of Wyoming	North America	Biocontrol
Joleen Hadrich	USA	Colorado State University	North America	New and Alternative Technologies
Julia Ramos	USA	Arizona State University	Latin America	Bicontrol
Kelly O'Meara	USA	Arizona State University	Asia	World Institutions
Kevin Berry	USA	University of Alaska, Anchorage	North America	

First Name	Country	Institution/Organization	Friday Discussion Group	Saturday Discussion Group
Larry Jech	USA	USDA, Animal & Plant Health Inspection Service (APHIS)	North America	Population Dynamics and Modeling
Long Zhang	China	Chinese Agricultural University	Asia	Biocontrol
Lonnie Black	USA	USDA, Animal & Plant Health Inspection Service (APHIS)	North America	New and Alternative Technologies
María Marta Cigliano	Argentina	Center for Parasitological and Vector Studies (CEPAVE), La Plata University	Latin America	Physiology, Evolutionary Biology, and Systematics
Mario Poot-Pech	Mexico	Yucatán State Plant Protection Committee	Latin America	Biocontrol
Marion Le Gall	USA	Arizona State University	Africa	Ecology
Mohammed Lazar	Algeria	National Institute of Plant Protection	Africa	Population Dynamics and Modeling
Nathan Moses Gonzalez	USA	M3 Consulting	North America	New and Alternative Technologies
Nathan Thrash	USA	Arizona State University		New and Alternative Technologies
Pablo Karnatz	Argentina	Argentina's Rural Confederation	Latin America	New and Alternative Technologies
Rick Overson	USA	Arizona State University	Latin America	Ecology
Stephen Rogers	UK	University of Cambridge	Phase Change	Physiology, Evolutionary Biology, and Systematics
Svenja Wagner	USA	Arizona State University	North America	
Ted Deveson	Australia	Australian Plague Locust Commission Australian National University	Australia	Population Dynamics and Modeling