



ENTOMOLOGICAL
SOCIETY OF AMERICA
SHARING INSECT SCIENCE GLOBALLY



Grand Challenges Agenda for Entomology

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Entomological Society of America

- Largest society representing individuals who study insects and arthropods, founded in 1889
- Serves members through meetings, journals, leadership opportunities, and other professional development programs
- Members represent academia, government, industry, museums, conservationists, pest management professionals, all the way to amateur beekeepers
- More than 7,000 members, about 6k domestic, 1k international
- One of several dozen entomological societies around the world



ESA Tiered Agenda

ACTIVE ISSUES

Highest level of investing ESA resources

- Scientific integrity
- Invasive insect species
- Pollinator health
- Public health
(Vector-borne diseases)
- Climate change
- Science communication
- Loss of biodiversity

ENGAGED ISSUES

Modest level of investing ESA resources

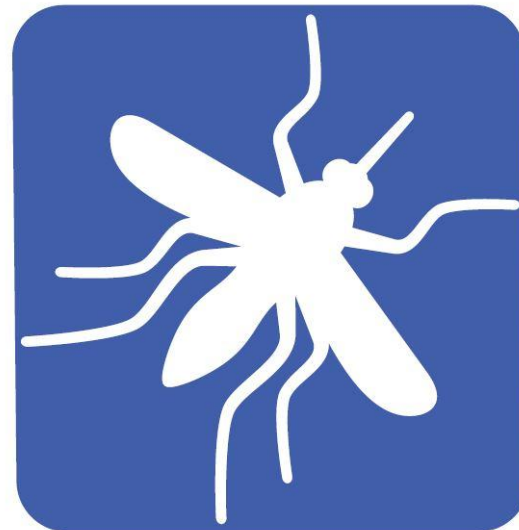
- Insecticide resistance
management
- Integrated pest management
- Public outreach and education
- Genetically-modified disease
vectors
- Entomological collections

WATCHING ISSUES

Lowest level of investing ESA resources

- Agricultural genetically-
modified organisms
- Sustainable agriculture
- Professional education and
training
- Food safety
- Urban pest management

A GRAND CHALLENGE | Agenda for Entomology



GCAFE Themes

Collaborating internationally at the intersection of insect science and human suffering

- Sustainable Agriculture
- Vector-Borne Diseases
- Biodiversity Loss
- Invasive Species

Past GCAFE Events

- Summit on the *Aedes aegypti* Crisis in the Americas, Maceió, Alagoas, Brazil, March 2016
- “Integrated Tick Management Symposium: Solving America’s Tick-Borne Disease Problem,” Washington D.C., May 2016
- “International Entomology Leadership Summit: Improving the Human Condition through Insect Science,” Orlando, FL, September 2016
- “Grand Challenges in Entomology in South America,” Gramado, RS, Brazil, September 2018
- “Addressing the North American and Pacific Rim Invasive Insect and Arthropod Species Challenge,” Vancouver, BC Canada, November 2018
- “Partnering to Address Invasive Species and Forest Health” (with The Continental Dialogues), Webinar Series, December 2021

How can scientific societies contribute?

- Advocate for better policies and more funding
- Draft white papers for policy and general audiences to communicate challenges and opportunities
- Collaborate with other stakeholders to turn up the volume on our messaging through coalitions
- Convene workshops to bring stakeholders from the government, industry, other organizations, academia, etc. to look for new ways to work together, support each other's efforts, share and amplify findings

Welcome and thank you for joining us!

