



ENTOMOLOGICAL  
SOCIETY OF AMERICA  
SHARING INSECT SCIENCE GLOBALLY



# 2022 Annual Report

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# Dear fellow ESA members,

Over the past decade, I have studied the self-righting jump of click beetles (Elateridae). It's a mechanism that inspires human inventions, but also a behavior we can all hope to emulate—to get knocked down and get back up again.



The past few years have been a test in resiliency in many facets of our lives, both personally and professionally. I'm proud to say the Entomological Society of America has fared well in weathering the challenges that have come our way, which has enabled us to continue supporting members like you, and the entire entomology community, to do the same.

In 2022, ESA's Annual Meeting convened more than 3,000 entomologists in Vancouver, British Columbia, for our first primarily in-person annual meeting since prior to the COVID-19 pandemic. Careful planning allowed that meeting to take place safely and successfully. Meanwhile, the economic conditions of 2022 brought significant losses to ESA's investment reserves; but, again, prudent management in stronger years prior has given our Society the resiliency to avoid negative impacts to member service and programs.

Indeed, 2022 was a year of foresight and action for ESA. Under the leadership of 2022 President Jessica Ware, ESA formed a Taskforce on Biodiversity to position the Society as a key facilitator in tackling the mounting problem of insect biodiversity loss. The Society also continued its work to enhance diversity, equity, and inclusion in our science: ESA's Public Health Entomology for All program hosted its first class of interns and fellows from minority-serving institutions at the Centers for Disease Control and Prevention, and ESA's headquarters staff added a DEI and Grants Program Manager position to support this and other growing federally contracted programs.

Meanwhile, in November the Governing Board approved a new Strategic Plan that sets forth key goals for ESA to pursue over the next three years toward maximizing knowledge sharing in the entomology community, increasing public awareness of insect science, and enhancing efficiency within Society operations.

So, as we begin 2023, ESA is poised for both sustainability and innovation. This November, for the first time since ESA founded its Science Policy program, the ESA Annual Meeting will take place near our nation's capital, offering entomologists a unique opportunity to showcase insect science for federal decision makers. The theme for Entomology 2023, November 5-8, in National Harbor, Maryland, is "Insects and Influence: Advancing Entomology's Impact on People and Policy." New and creative session formats are welcomed and encouraged to engage scientists, media, policymakers, and the public alike, and throughout the year ESA will encourage members to get active through Action Alerts, visits to Capitol Hill, and other Science Policy efforts.

Fittingly, the logo for Entomology 2023 features a click beetle, an apt metaphor for our professional community. Despite what might knock us on our backs, we readily right ourselves and resume our pursuit of entomological understanding and applying that knowledge to solving global challenges. As you explore this Annual Report, you will see the variety of ways ESA works to build this strength and resilience across our profession.

Thank you for your continued support and engagement with the Entomological Society of America!

Sincerely,

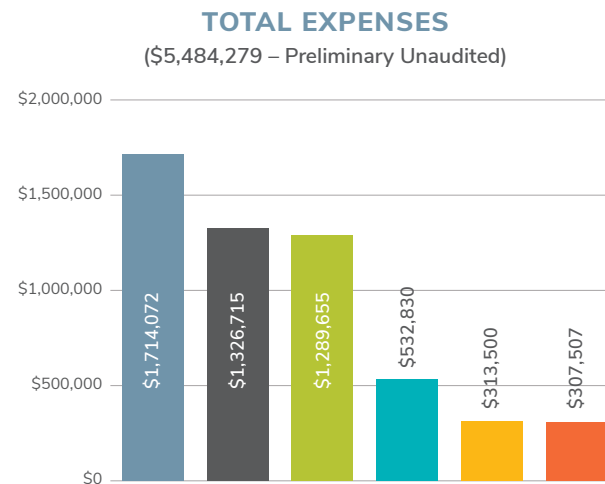
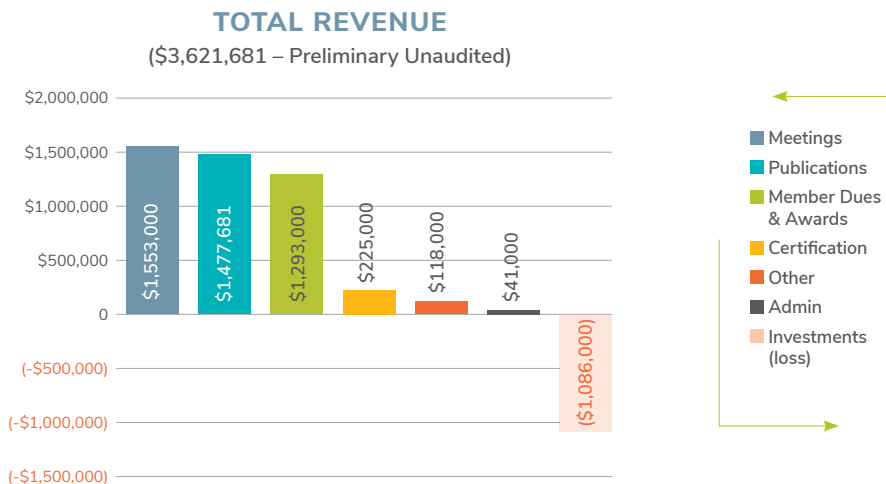
Marianne "M" Alleyne  
ESA President  
February 2023

**2023**  
**ENTOMOLOGY**  
November 5-8 | National Harbor, MD



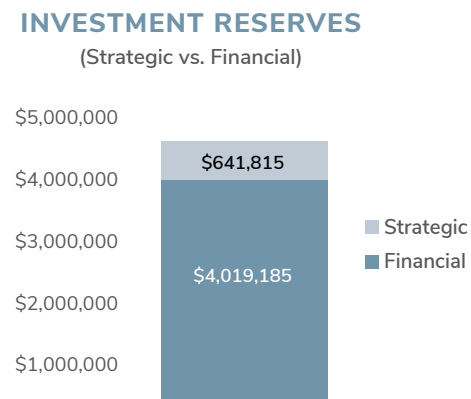
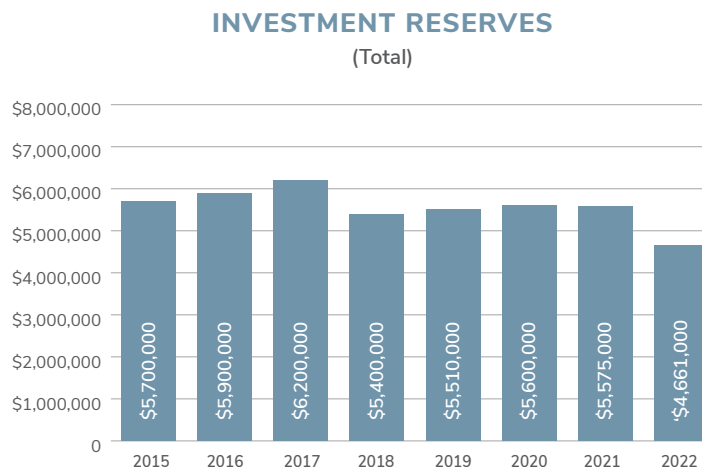
# Financial Updates

In 2022, ESA—like most corporations—experienced a steep decline in profitability for the year. This was driven primarily by a significant market loss to investments. The variance to budget for investments exceeded \$1.5 million last year, the largest single-year investment decline since the 2008–2009 recession. With additional revenue streams being realized in its Certification and Grants program, the Society is striving for future balanced budgeting long-term. Management and the Finance Committee have added recommended guardrails for the Society’s investments to ensure smaller negative budget swings in any given year.



## Investment Reserves

ESA maintains funds that it designates as “financial” and “strategic” reserves to ensure that ESA is protected from sudden financial shocks, such as 2022’s market downturn, and to fund new programs and opportunities that are not part of routine operations. ESA is still able to pursue targeted strategic ventures that leadership deems beneficial to the Society while our investment reserves replenish.

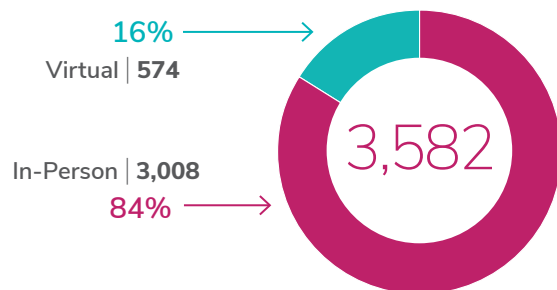


# 2022 Joint Annual Meeting



The 2022 ESA, ESC, and ESBC Joint Annual Meeting—with the theme “Entomology as Inspiration: Insects through art, science, and culture”—was ESA’s second joint meeting with the Entomological Society of Canada (ESC) and the Entomological Society of British Columbia (ESBC). The meeting featured 2,123 live presentations taking place on-site in Vancouver with an additional 599 on-demand presentations available online. Plenary sessions and several symposia were recorded on-site and posted in the on-demand program for viewing for all registered attendees through October 31, 2023. Forty-five artists displayed their work during ESA’s first-ever juried art exhibition, which attracted artists from all mediums. More than 400 votes were cast to determine the winner for each category (traditional, photography & digital, and three-dimensional). Independent artists filled artisan row for the first time, allowing smaller and local independent artists the opportunity to engage with attendees. Attendees were excited to be back in beautiful Vancouver meeting jointly with our Canadian partners!

## REGISTERED ATTENDEES



## JOINT ANNUAL MEETING STATISTICS

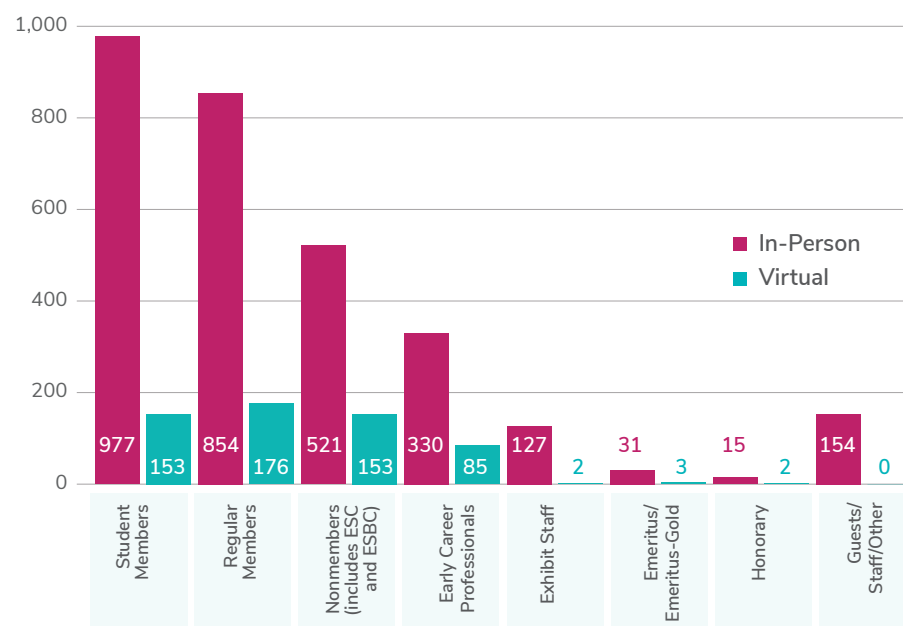
**43** exhibiting companies

**53** countries represented

For the **third year in a row**,  
**student members**  
represented the largest  
category of attendees.

**989**  
first-time  
attendees

## ATTENDEE BREAKDOWN



THANK YOU TO OUR CORPORATE PARTNERS FOR THEIR GENEROUS SUPPORT THROUGHOUT THE YEAR.





# ESA Membership Demographics

Membership numbers remained stable in 2022, with nearly the exact same total number of members as in 2021. The makeup of this membership figure changed slightly as ESA saw growth in the number of new members, but a slight decline in the number of returning members.

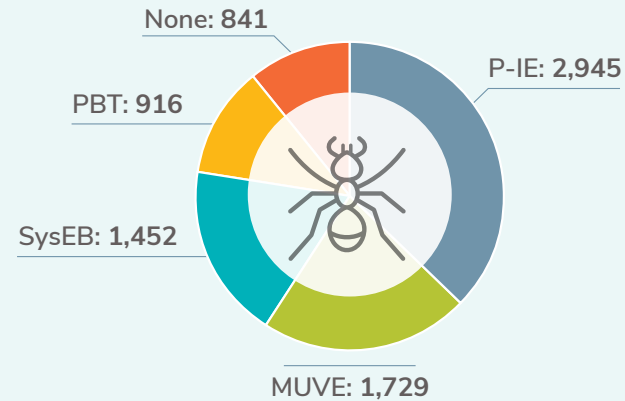
## MEMBERSHIP

**6,702** | TOTAL MEMBERSHIP

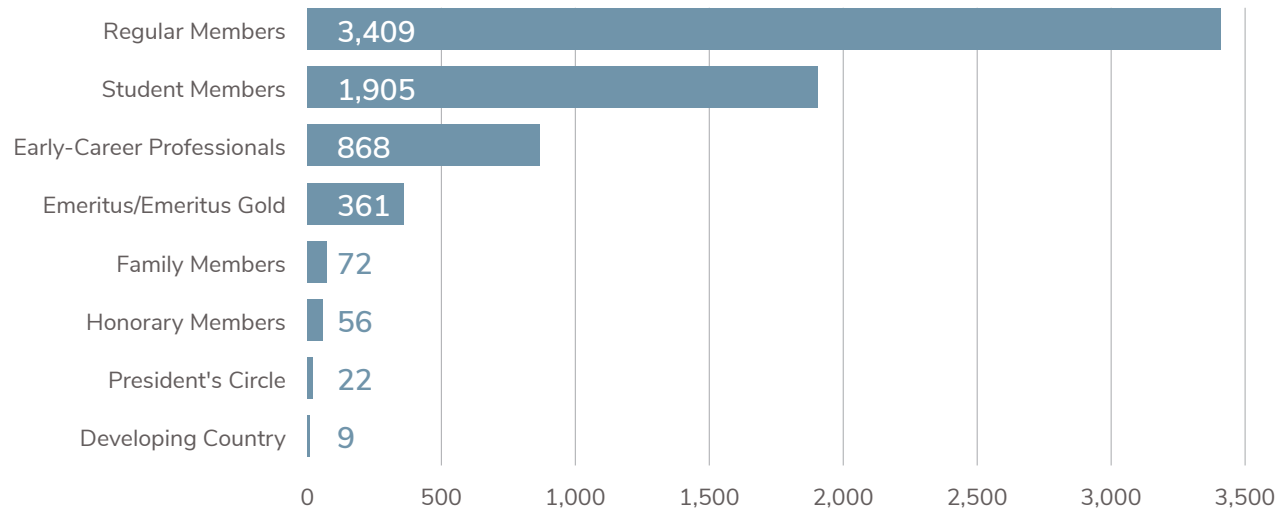
**1,183** | NEW MEMBERS

**5,519** | RETURNING MEMBERS

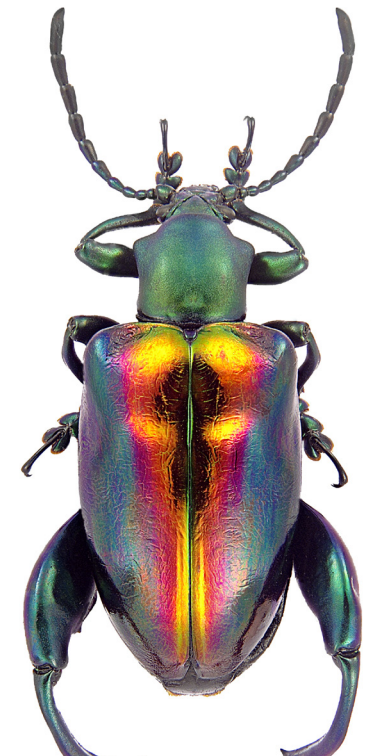
## MEMBERSHIP BY SECTION\*



## MEMBERSHIP BREAKDOWN

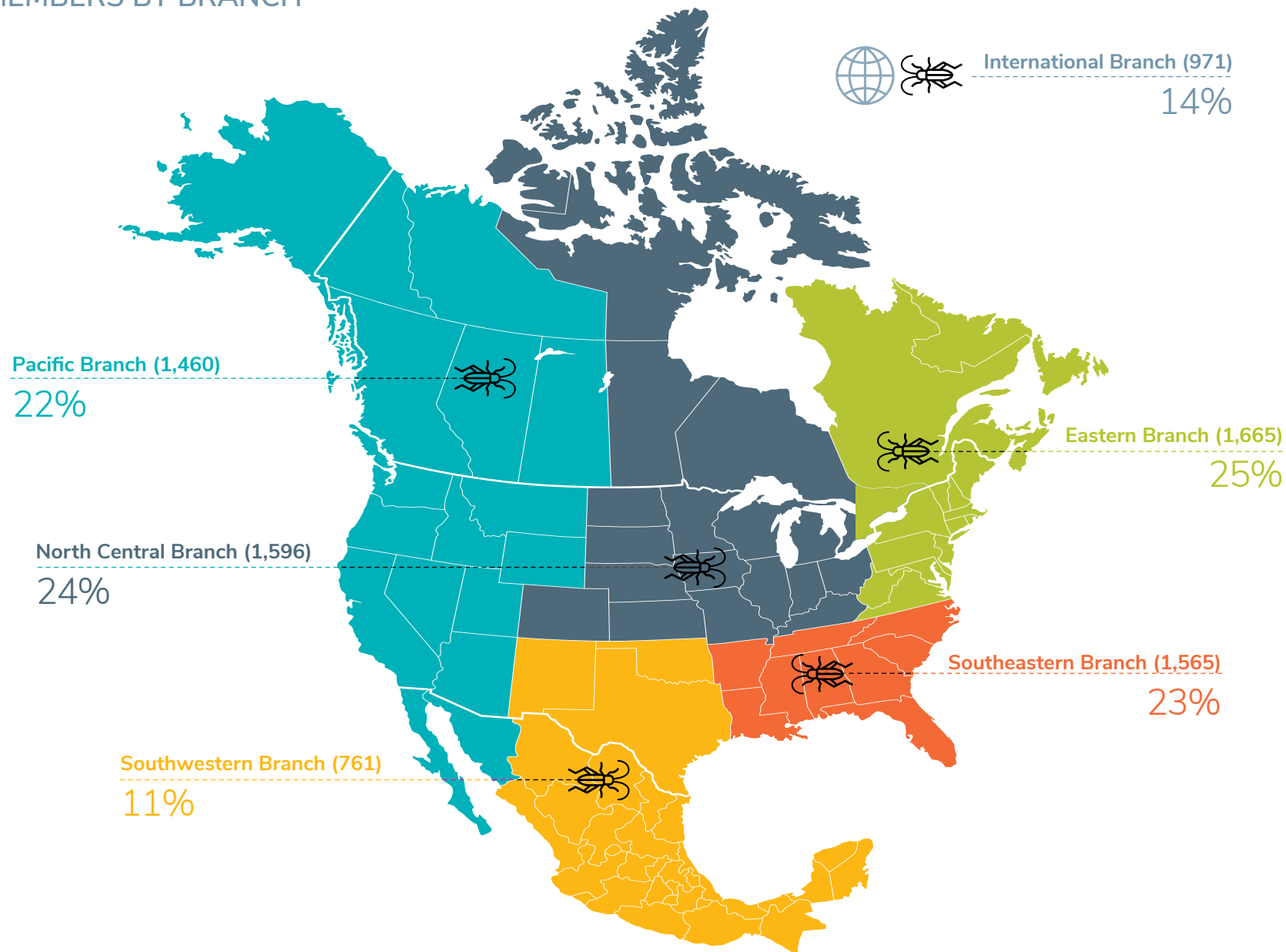


\*Members may join more than one Section at no additional cost.



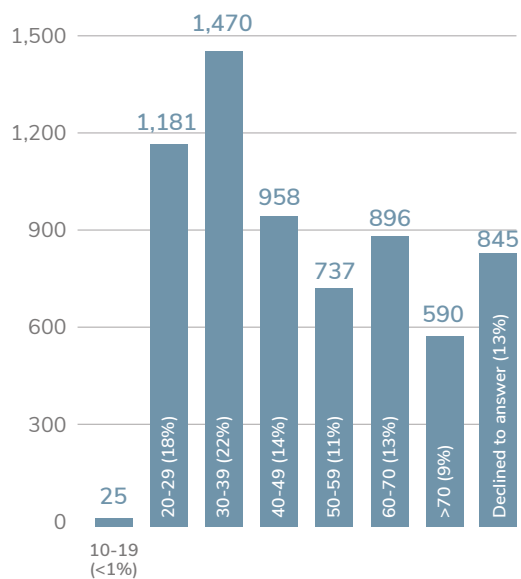
# ESA's Global Reach

## MEMBERS BY BRANCH\*

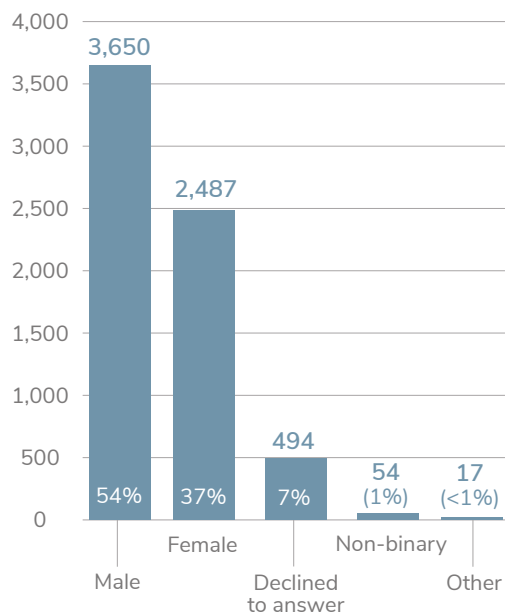


\*Members may join more than one Branch at no additional cost.

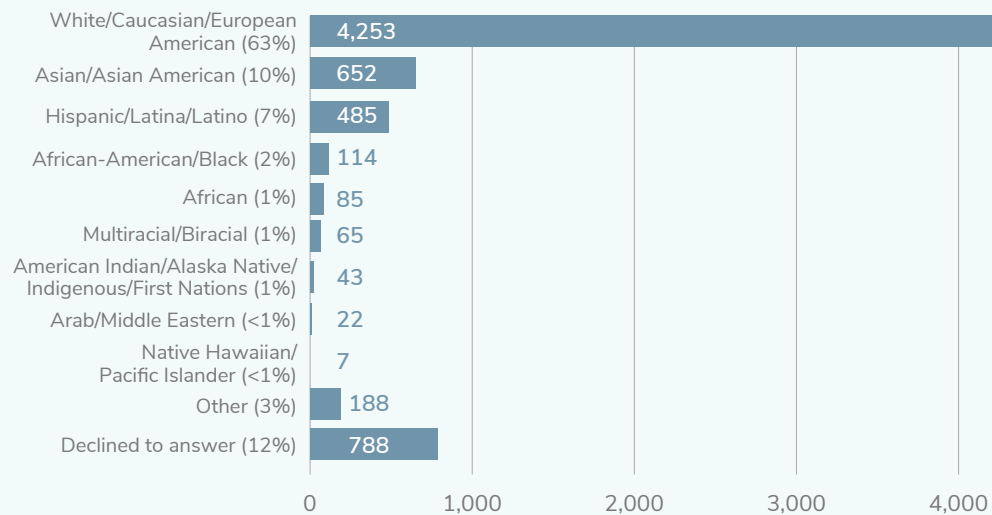
### MEMBERS BY AGE



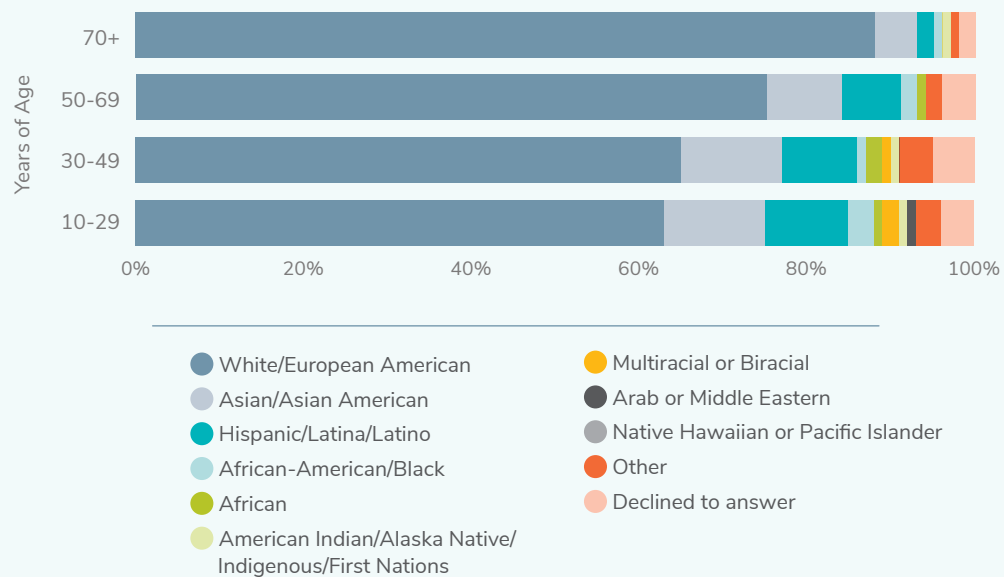
### MEMBERS BY GENDER



### MEMBERS BY RACE & ETHNICITY



### ETHNICITY & RACE BY AGE GROUPS



# Credentialing

## ACE, CIT, PHE PROGRAMS GROWING

The year 2022 marked a return to normalcy for ESA certification programs. After launching new programs in 2020 and 2021, the focus in 2022 was on growing and developing our existing credentials. The Associate Certified Entomologist (ACE) program returned to growth after a slight downturn in 2021, the Public Health Entomology (PHE) program continued to grow, and the new Certified IPM Technician (CIT) program saw rapid expansion, with almost 200 credential holders as of year-end. Major industry conferences returned, and ESA certification staff were able to attend and promote our programs. Looking ahead, in 2023 we will revise and update exam content and continue to grow all four credential programs.

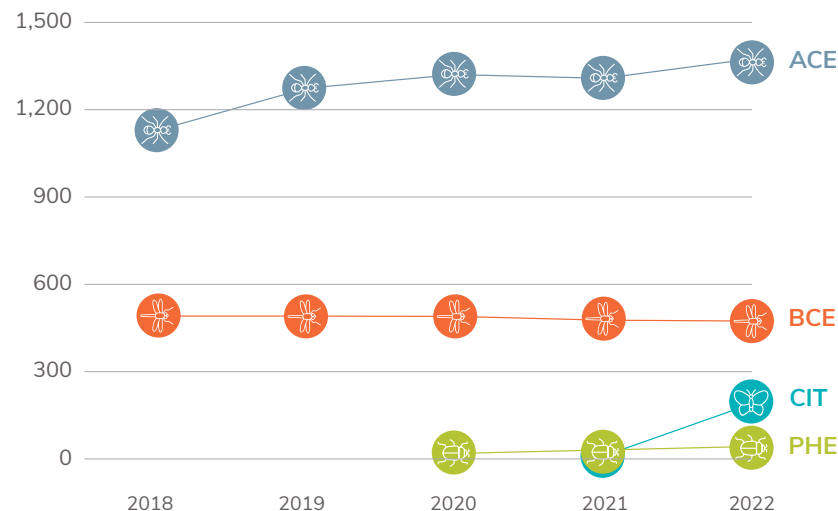
## Ethics in Entomology

ESA's ethics policy calls for the publishing of an annual accounting of any ethics cases received by and reviewed by the Society, a practice intended to provide transparency to the policy and its enforcement and support positive ethical conduct. ESA continues to hold leadership positions in the Societies Consortium on Sexual Harassment in STEMM and is a recognized leader in promoting ethical conduct in science. In 2022, ESA received six reports of potential ethical misconduct and six cases continued from the prior year. This is down from 2021 when 14 new reports were received. In 2022, the following cases were handled under the ethics policy for both the ESA and ESA Certification programs:

- **One** self-reported incident that arose from the Conduct Disclosure form. The matter was reviewed, found to be inconsequential, and not investigated.
- **One** allegation that was received and considered, but not investigated.
- **One** incident that was investigated and resulted in an apology to those impacted.
- **One** new investigation that was launched and discontinued when the circumstances surrounding the allegation changed.
- **Two** informal notices, which were received and documented but not investigated at the request of the reporting parties.
- **Three** investigations that continued from the previous year were concluded with sanctions of some level administered. Of these, one of the accused contested the allegation and appealed, seeking a reduction of the sanction. This appeal was denied by the Governing Board.
- **Three** investigations that continued from the previous year were resolved with no action taken.

## CREDENTIALS EARNED BY PROGRAM

Year End Numbers



## Webinars

In 2022, ESA hosted **30 webinars** including five series that reached over **800 attendees.**

- Early Career Professionals Webinar Series
- Entomology Advocacy Week
- New Member Webinar Series
- P-IE Webinar Series
- Social Justice Webinar Series



# Science Policy: ESA Advocacy Wins in 2022

While Capitol Hill remained close to the public through 2022, escorted individuals could meet with offices by appointment, enabling the resumption of in-person meetings!



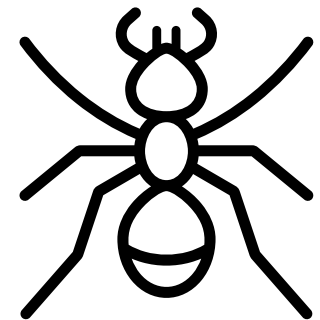
## Some highlights and outcomes of ESA's advocacy in 2022:

- ESA Science Policy Fellows were able to come to Washington, DC, for meetings with Congress in May and with federal agencies, House and Senate Agricultural Committee staff, and other non-governmental organizations in October.
- The Science Policy Committee selected the Class of 2022 Science Policy Fellows and hosted a symposium at Entomology 2022 focused on international research collaboration and policymaking.
- ESA launched a new grassroots advocacy platform to make it easier for ESA members to connect with their elected officials. More than 250 emails were sent to Congress in 2022 by ESA members on vector-borne disease, invasive species threats posed at the state level, and a bill on protecting the health of coffee!
- ESA's Grand Challenges Agenda for Entomology (GCAFE) and the Nature Conservancy's Continental Dialogue on Non-Native Forest Insects and Diseases hosted an in-person workshop on invasive species associated with wood conveyances and horticulture at the Society of American Foresters national convention.
- Advocacy on behalf of the Vector-Borne Disease Network (VBDN), a coalition run by ESA, helped boost funding through the Centers for Disease Control and Prevention (CDC) for mosquito- and tick-borne diseases in fiscal year 2023 appropriations and supported passage of the "Prepare for and Respond to Existing Viruses, Emerging New Threats, and Pandemics Act" or the "PREVENT Pandemics Act."
- After several years of advocacy by the scientific community and ESA, Congress passed the bill including the National Science Foundation (NSF) reauthorization known as "The Creating Helpful Incentives to Produce Semiconductors and Science Act of 2022 (CHIPS and Science Act)." This includes support for biological collections and workforce development.

## SIGN UP FOR ESA ACTION ALERTS!

Be an advocate for  
entomology!

Periodically, ESA issues  
new topic-specific advocacy  
alerts, enabling ESA members  
to easily connect with  
legislators and offer timely  
subject-matter expertise.



# Publications Highlights

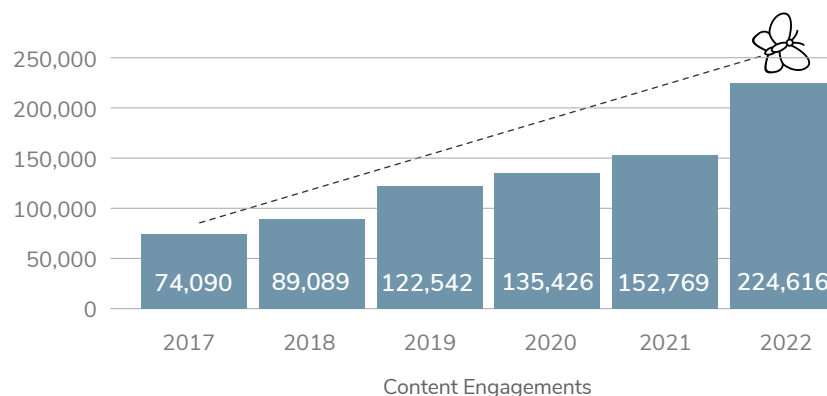
## JOURNAL IMPACT FACTORS AND USAGE GROW

- All but one of ESA's journal impact factors increased in 2022.
  - » The *Journal of Integrated Pest Management* had ESA's highest score at 4.107, ranking it #12 in the entomology category.
  - » *Annals of the ESA's* impact factor has nearly doubled over the last three years.
  - » The *Journal of Economic Entomology* remains the most-cited entomology journal.
- Editor gender diversity continues to improve. Thirty-eight percent of ESA's subject editors are women, up from 21 percent in 2018.
- A new Thomas Say volume was published, *An Important and Victorious Science: The International Congresses of Entomology*. The book explores the 100-plus-year history of ICE meetings.
- Total journal submissions declined 12% in 2022, a lingering effect of the pandemic that prevented new research from being completed.

## Entomology Today Blog

Now has more than **10,800 subscribers**, an **8% increase** over 2021.

### ESA JOURNAL USAGE TRENDING UPWARD



## Broadening our Diversity, Equity, and Inclusion Efforts

In 2022, ESA expanded its efforts to create a more diverse and inclusive Society and profession. We:

- Contracted with six college interns and two fellows as part of the launch of the Public Health Entomology for All (PHEFA) program, which is a partnership with the U.S. Centers for Disease Control and Prevention designed to introduce students and graduates of minority-serving institutions to public health entomology. In 2023, PHEFA will expand to include six interns, four one-year fellows, and four two-year fellows.
- Partnered with the American Indian Science and Engineering Society, Ecological Society of America, and Botanical Society of America in LEAPS: Culture Change for Inclusion of Indigenous Voices in Biology, an NSF-funded grant to drive organizational culture change among professional societies to transform how biological societies engage with Indigenous scholars and communities. Through Indigenous Voices, ESA hosted its first-ever Indigenous Entomologists Gathering at the Joint Annual Meeting.
- Hosted webinars and a symposium regarding the intersection of social justice and entomology.
- Hired Elynn Owens to the new role of DEI and Grants Program Manager.

## Letter from the Executive Director

As many of you know, I've spent more than 20 years working for and with the ESA in various roles—through boom and hard times. This past year brought us a bit of both, but let's start with the positive: There was a lot to like and be proud of last year.

The Society launched or improved a number of programs to support your careers, from the improvements in the Career Center, to the new Professional Advancement Career Training (PACT) program, the CDC-funded Public Health Entomology for All (PHEFA) internships and fellowships, and—perhaps my favorite—the Insect Science Career Data project, which provides salary benchmarking data for all members who choose to participate.

You elected your first-ever Early Career Professional to the Governing Board (welcome Scott) and committed to look at our governance and governing processes as part of our first strategic plan since 2009. This tool, which calls for improving our ability to serve the market, increasing awareness of the science, and improving the ways in which we do this, will serve as a roadmap for Society endeavors and investments through 2025. Attention to diversity, equity, and inclusion (DEI) is woven throughout the plan and our work, including some high visibility programs like PHEFA or the Common Names process that selected “northern giant hornet” for *Vespa mandarinia* last year.

Dr. Alleyne discussed the financial losses in her letter on page 1 of this report. Though we know we'll regain those funds over time, it still stings in the moment. But, harder, there were also some permanent losses—members we've grown close to over the years that passed away. Many of us lost members and friends to the pandemic and other reasons this past year.

As we start 2023 strong, let's all take a moment to honor their contributions to our Society and world. As always, thanks for your membership in the Society. We exist because of—and for—you.

Sincerely,

Chris Stelzig



**CHRYSALIS FUND**  
ENTOMOLOGICAL SOCIETY OF AMERICA

## UPDATE

ESA's Chrysalis Fund encourages entomology education by awarding grants to K-12 teachers and other educators who use insects in the classroom to get kids excited about science.

**IN 2022, ESA AWARDED**

**12 GRANTS**

TOTALING

**\$17,679**

RANGING FROM

**\$250 - \$2,500**

**AT THE CLOSE OF 2022,  
THE CHRYSALIS FUND  
BALANCE WAS**

**\$166,352**

# Meet Your HQ Staff

The ESA headquarters team is here to help you get the most out of your ESA membership.

## ESA MAIN LINE: 301-731-4535

### DIVERSITY, EQUITY, AND INCLUSION

**Stacie East**, x3030 • [seast@entsoc.org](mailto:seast@entsoc.org)  
Diversity and Inclusion, PHEFA Internships and Fellowships,  
Ethics and Rules

**Elynn Owens**, x3027 • [eowens@entsoc.org](mailto:eowens@entsoc.org)  
Grants, Diversity, Equity, and Inclusion

### FINANCE

**Neil Willoughby**, x3005 • [nwilloughby@entsoc.org](mailto:nwilloughby@entsoc.org)  
Budget, Finance, Administration

**Alexis Lyons**, x3017 • [alyons@entsoc.org](mailto:alyons@entsoc.org)  
Member Payments, Vendor Payments, Refunds

### MEETINGS AND MEMBERSHIP

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**Becky Anthony**, x3018 • [banthony@entsoc.org](mailto:banthony@entsoc.org)  
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**Cindy Myers**, x3011 • [cmyers@entsoc.org](mailto:cmyers@entsoc.org)  
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**Mary Campbell**, x3013 • [mcampbell@entsoc.org](mailto:mcampbell@entsoc.org)  
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### PUBLICATIONS, COMMUNICATIONS, AND MARKETING

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**Irene Nudd**, x3028 • [inudd@entsoc.org](mailto:inudd@entsoc.org)  
Journal Submissions, American Entomologist,  
World of Insects Calendar

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Leadership Development, Awards & Honors Canvassing

**Willet Hossfeld**, x3026 • [whossfeld@entsoc.org](mailto:whossfeld@entsoc.org)  
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**Rebecca Martin**, x3027 • [rmartin@entsoc.org](mailto:rmartin@entsoc.org)  
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### FOR ALL OTHER INQUIRIES

**Chris Stelzig**, x3012 • [cstelzig@entsoc.org](mailto:cstelzig@entsoc.org)  
Executive Director

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#### Questions?

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