



ISSA International Annual Membership Meeting

September 26, 2024

AGENDA

- ❖ Association's Purpose and Goals
- ❖ 2023 Year in Review
- ❖ 2024 Year to date
- ❖ 2025 Looking toward the future

Jimmy Sanders
ISSA International Board
President





Core Purpose


To promote a secure digital world

Mission Statement

- ❖ ISSA is a nonprofit organization for the information security profession committed to promoting effective cybersecurity on a global basis
- ❖ Being a respected forum for networking and collaboration
- ❖ Providing education and knowledge sharing at all stages of your career
- ❖ Being a highly regarded voice of information security community

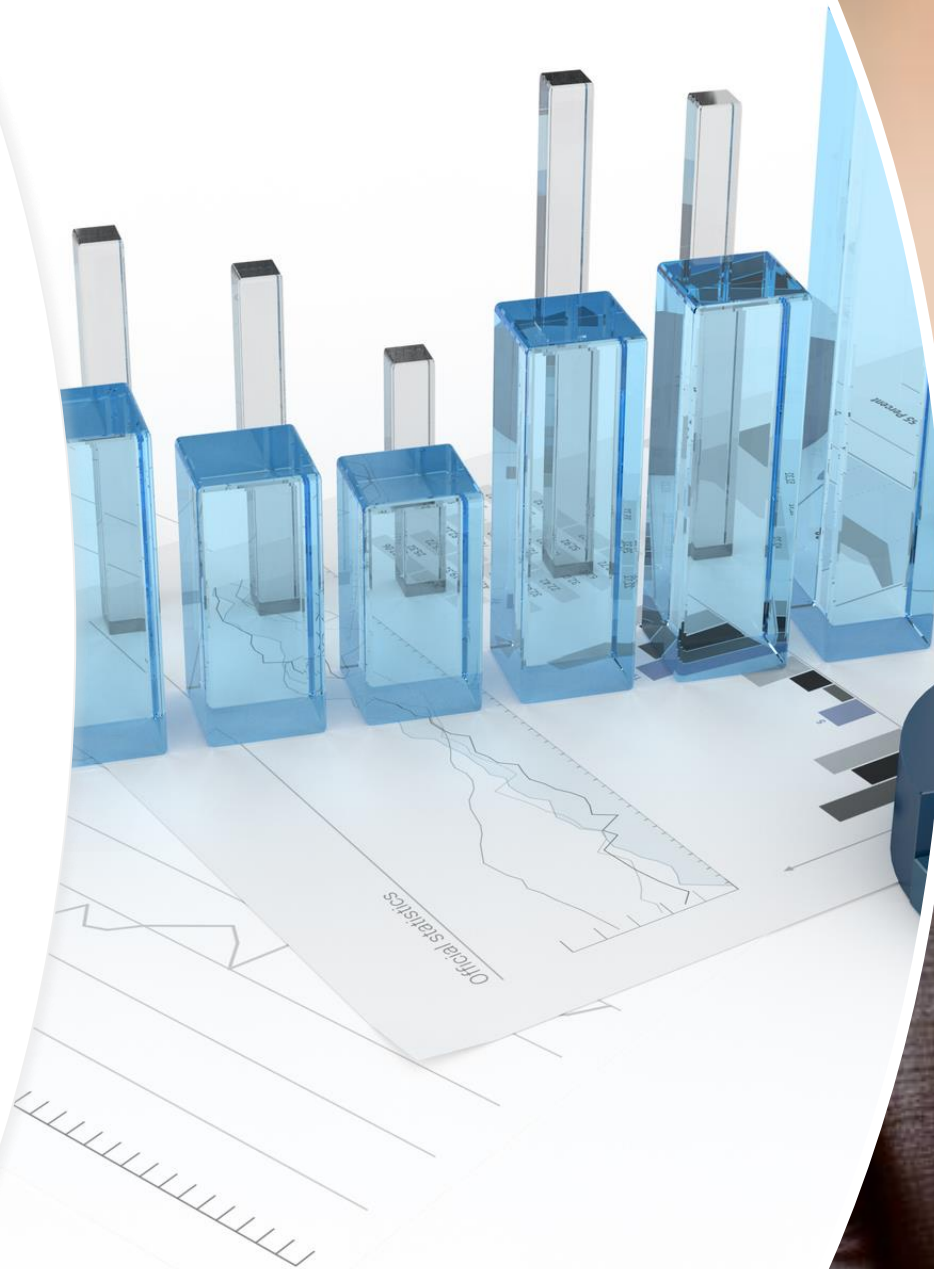


2023: Year in Review



2023 Financial Report

David Vaughn
ISSA CFO and Treasurer

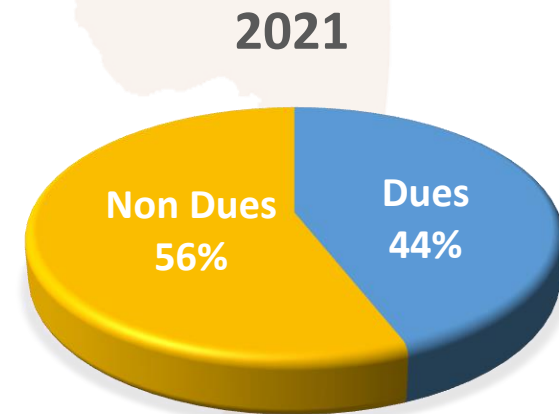
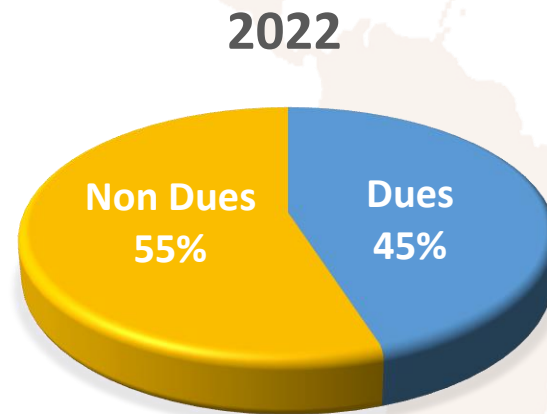
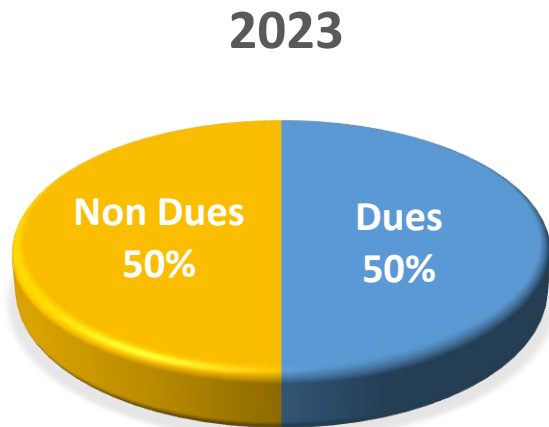


FY 2023 Financial Overview

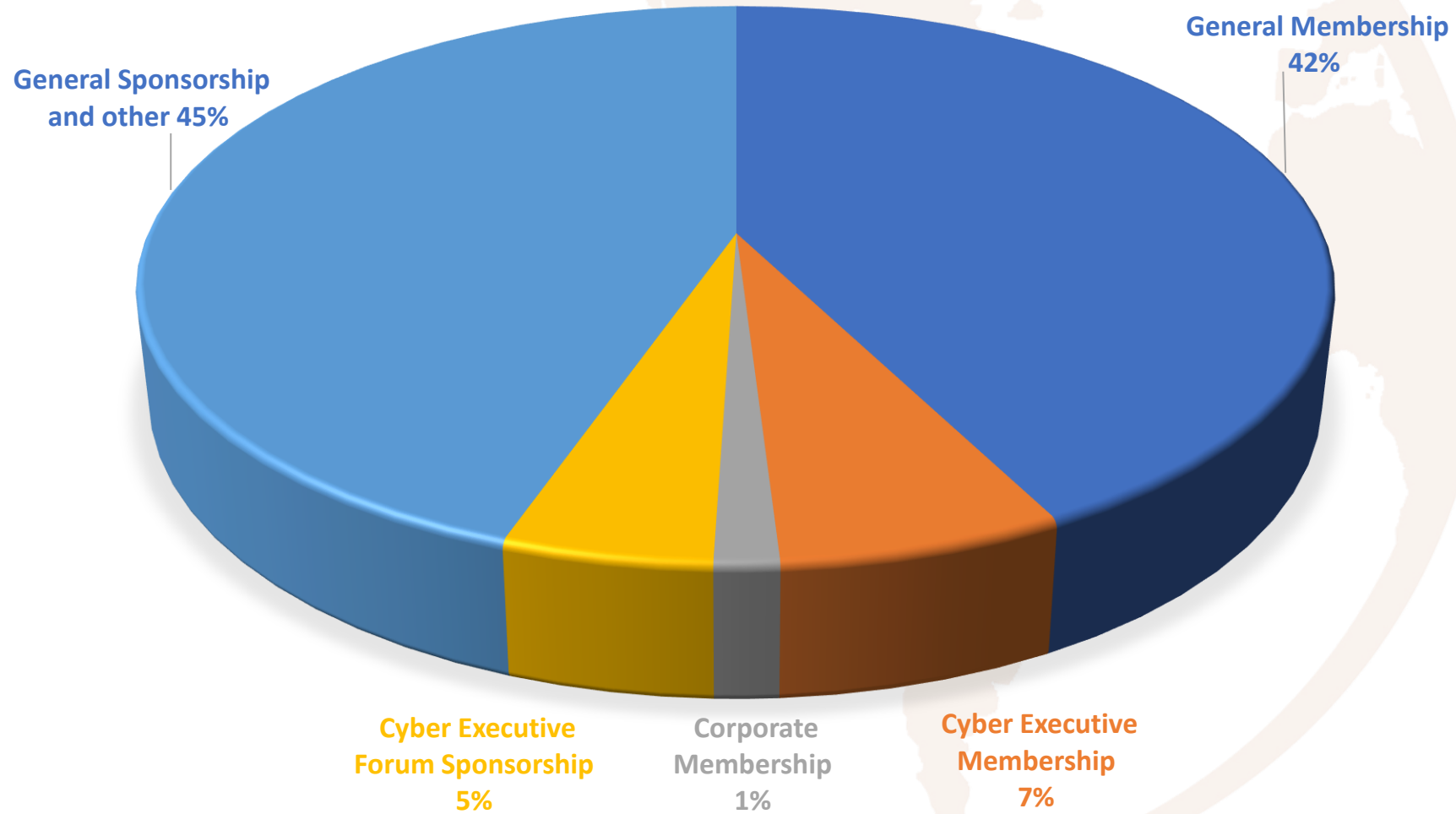
ISSA Revenue Streams Allocated In Two Categories

Dues (ISSA Annual Memberships)

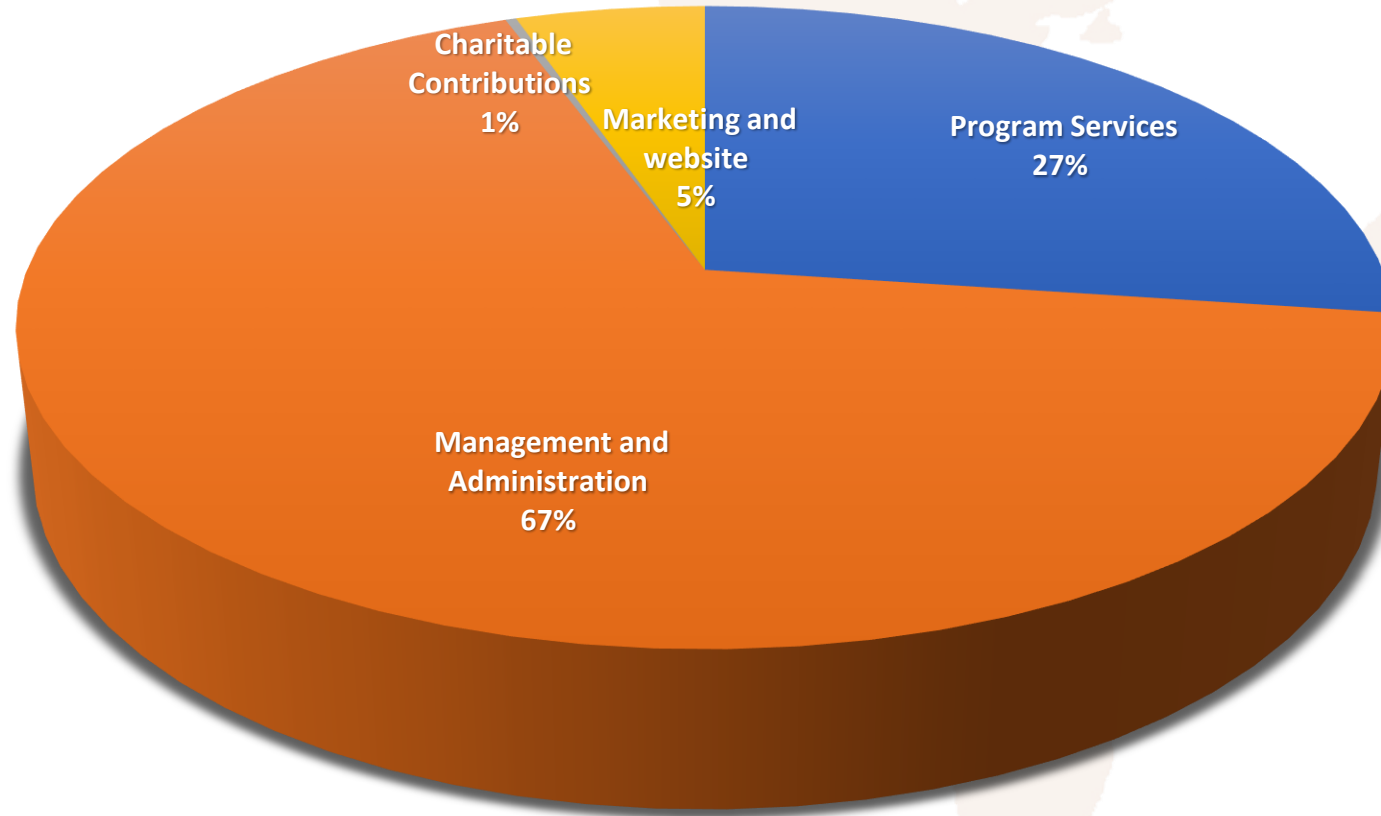
Non-Dues (other than membership)



2023 Sources of Revenue



2023 Sources of Expense



■ Program Services ■ Management and Administration ■ Charitable Contributions ■ Marketing and website

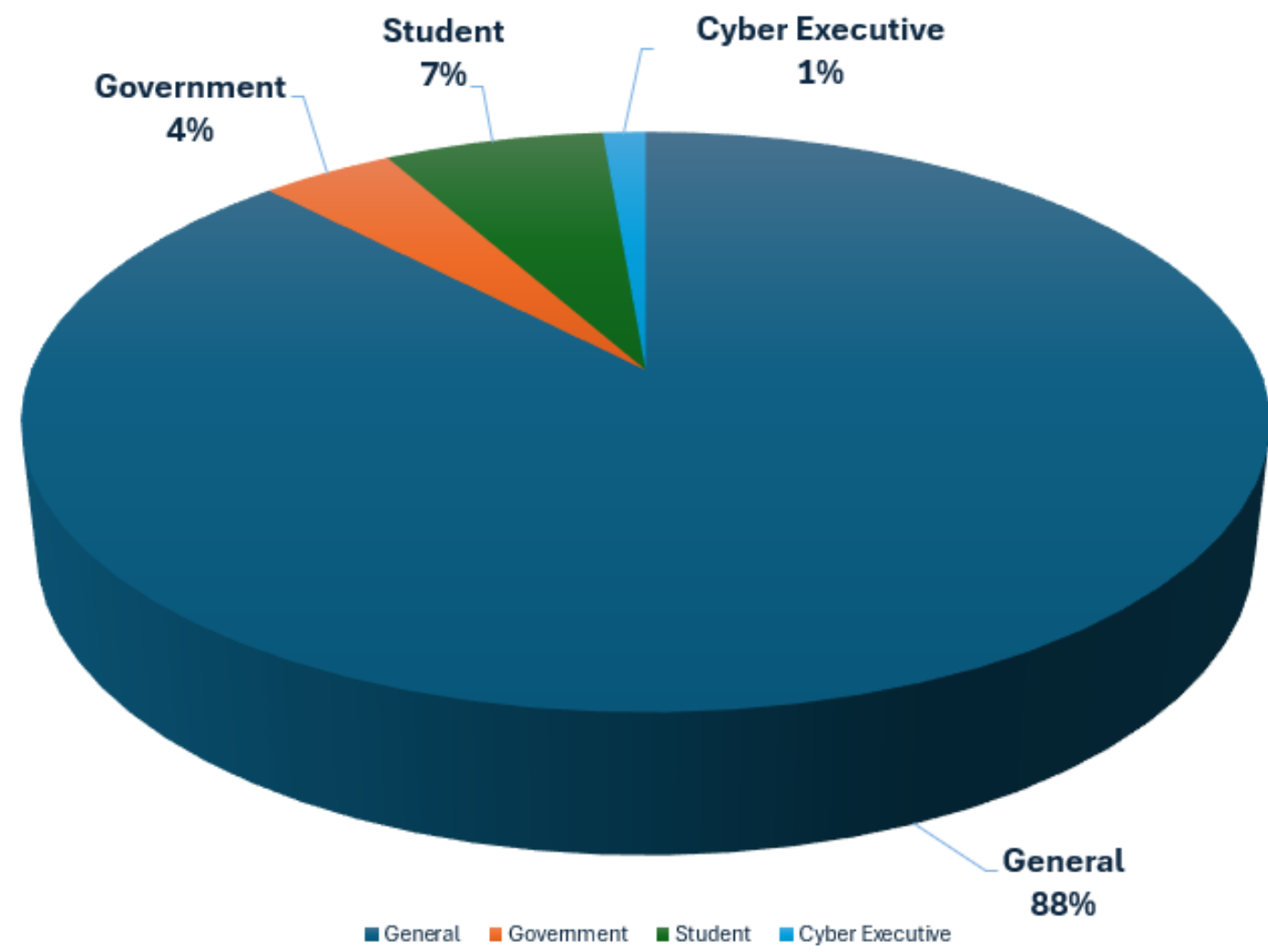


2024 Year to Date Highlights

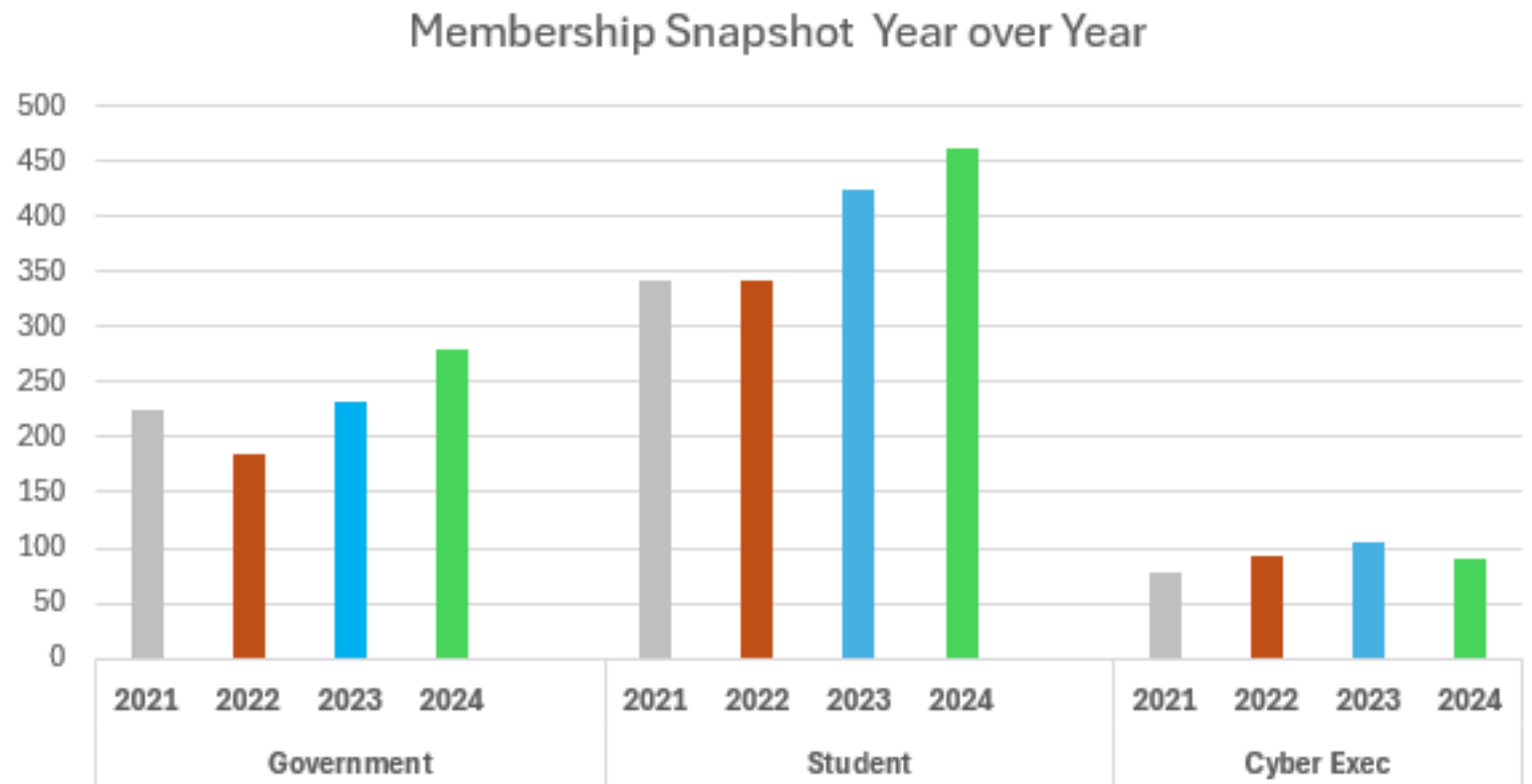
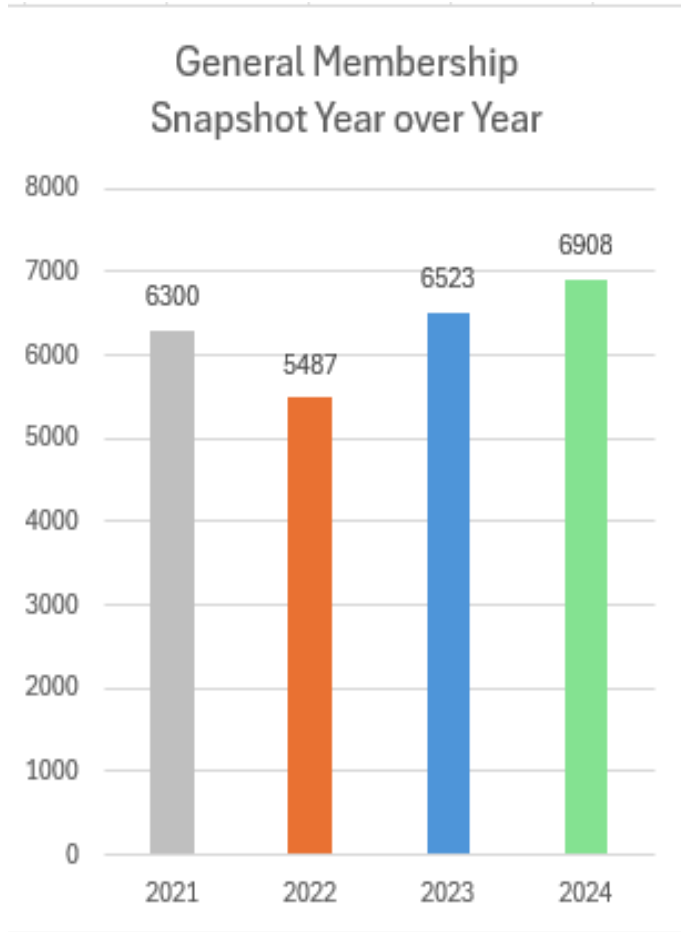
2024

LOADING...

Membership By Type YTD 2024

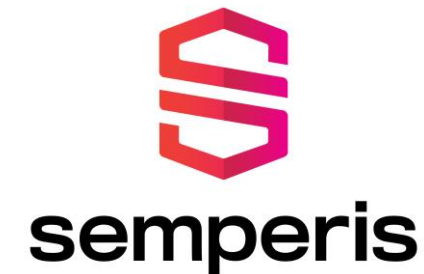


Membership Year over Year Trends



Corporate Membership

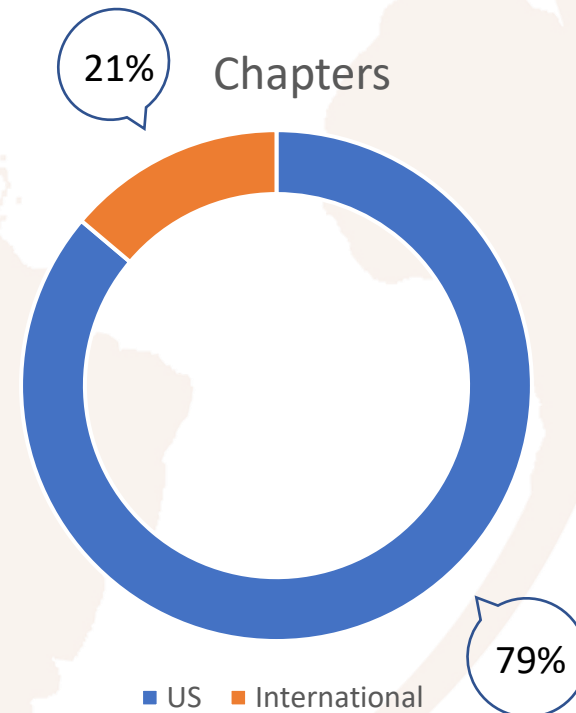
- ❖ We had 14 Corporate Members who invested in the program in 2023 to provide resources for their employees. Some of those organizations represented below may renew:



Chapters Around the World

2024 Year to Date

- ❖ Total Active USA Chapters – 98
(22 under 10 members)
- ❖ Total International Chapters
 - Active Chapters – 26
(20 under 10 members)



Cyber Executive Forums



**Join Us For Our Next Cyber
Executive Virtual Forum
Thursday, November 7th, 2024**

**Look Forward to Cyber Executive
Forum 2025!**

2024 Virtual Awards

Limited Categories This Year

Chapter Awards (S,M,L)

Volunteer of the Year

2024 ISSA Awards- Chapter of the Year



○ Small



○ Medium



○ Large



○ International

2024 ISSA Awards



❖ Volunteer of the Year

2024 – 2025 ISSA Fellows –

❖ **Fellows**



❖ **Distinguished Fellows**



These Awards will be combined in a 2024-2025 Anniversary Program and 2025 Gala

For more details about the Fellows and Distinguished Fellows Program:

<https://www.issa.org/fellows-program/>

Programs & Initiatives

- **ISSA Membership discounts for October 2024**
 - **\$40 Discount for 2-Year General Membership or**
 - **\$15 Discount for 1 year General Membership**
- **Emerging Technology SIG**
- **Experiences**
 - **World of Cyber Venture Capital**
 - **The ATLAS (All Together Learning and Sharing) Experience**
 - Newsletter/Webinar section for people entering the Security field to share their technology journey or offer advice
- **ISSA International Presidential Council Advisors**
- **Third Thursday**
 - **(Open Office Hours for Technology Leaders to answer audience Questions 11am-1pm Eastern)**

Chapter Support & Resources

- ❖ Chapter Leader's Meetings
- ❖ Chapter Governance
- ❖ Dedicated staff - chapter@issa.org
- ❖ YM - Chapter Admin Portal
- ❖ Membership Initiatives
- ❖ Chapter Resources on Website
- ❖ Chapter Groups on Social Link
- ❖ Chapter Mentoring
- ❖ International Board Members attending local meetings

Chapter Support and Resources



ISSA Online Community! Don't miss the latest from your peers!

BE SOCIAL TODAY

A screenshot of the ISSA website's navigation menu and a banner. The navigation menu is a dark teal bar with white text for "Home", "About", "Resources", "Career", "Chapters", "Cyber Executive", "News", "Events", "Get Involved", and "MyISSA". The "Chapters" menu is open, showing a light blue dropdown with options: "Find a Chapter", "Add or Change Chapter Membership", "Chapter Resources" (highlighted), "Chapter Leaders' Meetings", "Start a Chapter", and "Chapter Leadership Change Form". Below the menu is a banner with a background of glowing blue and orange circuitry. The text "Chapter Resources" is prominently displayed in white. Below the banner, there is a white box with the text "More in this Section...".

Chapter Leader Resources:

- Chapter Manual & Supplemental Documents
- Chapter Leaders Meetings
- Annual Membership Meeting
- Chapter Governance
- Chapter Website & Member Communication
- Marketing & Communication
- Chapter Growth & Retention
- Questions

Chapter Event Promotion



RENEW CONTACT US SIGN OUT



ISSA Online Community! Don't miss the latest from your peers!

BE SOCIAL TODAY

Home About Resources Career Chapters Cyber Executive News Events Get Involved MyISSA

Global Events
Chapter Events

Community Calendar

All Categories Upcoming Past Month View



Upcoming Events

We can Highlight Your Chapter Events Here

Home
Events
Contact
Legal

ESG/ISSA Research - 2023



**Completed and Published.
Download Here:**

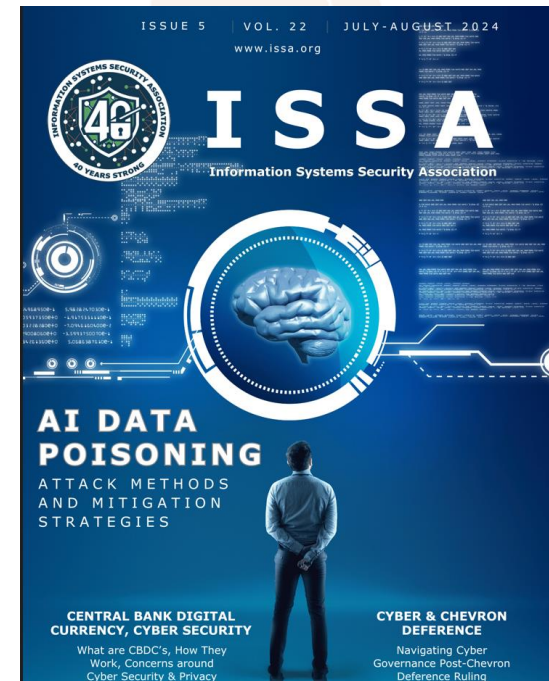
(We will insert new link here when uploaded)

Thank you for participating in this important research project!

ISSA Journal

We are actively seeking authors to contribute articles to the ISSA Journal!

- ❖ Member and Chapter contributions are always welcome
- ❖ Author mentoring program available
- ❖ Journal content is available to researchers through an academic network
- ❖ For more information visit:
<https://www.members.issa.org/page/journal-contribute>



ISSA Web Conferences

Monthly Web Series Covering a Vast Array of Cybersecurity Topics



- ❖ Webinars Year to Date = 26 (+1 Town Hall + 1 Meet the Candidates)
- ❖ Subscribers Year to Date = (35,851 as of Sept 24, 2024)
- ❖ Average ratings: 4.5 out of 5 stars

Upcoming Webinars: <https://www.issa.org/events/>

Past Webinars: <https://www.issa.org/past-web-conferences/>

ISSA Special Interest Groups

❖ Cyber Resilience SIG

- 2371 Members
- 1 Virtual Summit Pending



[https://www.members.issa.org/group/Cyber Resilience](https://www.members.issa.org/group/Cyber%20Resilience)

❖ Privacy SIG

- 1968 Members
- 9 Webinars YTD



<https://www.members.issa.org/page/PrivacySIG>

❖ Women in Security SIG

- 185 Members
- 4 Webinars YTD + 2 Panels at CEF



<https://www.members.issa.org/page/WomenInSecurity>

Don't see an area of interest that you would like to pursue?

Contact Anne.Rogers@issa.org to suggest a new special interest group.

ISSA Committees

Committee Name	Committee Chair
Editorial Advisory Board Committee	Jack Freund
Ethics SIG Committee	Betty Pierce
Fellow Committee	Randall Friezsche
Awards Committee	Mark Hahn
Awards Committee	Mark Spencer
Chapter Leaders Committee	Bill Smith
Chapter Leaders Committee	Cailin Sullivan
Chapter Leaders Committee	Robert Kinzer

ISSA Committees

Committee Name	Committee Chair
Women in Security SIG	Debbie Christofferson
Privacy SIG	Loretta Dennison
Privacy SIG	Zach Miller
Privacy SIG	Robert Graham
AIM Committee	Heidi McDonald
AIM Committee	Dr. Shawn Murray
Ethics Committee	Betty Pierce
Cyber Resiliency SIG	Francesco Chiarini
Cyber Resiliency SIG	Mehdi Azaouioui

Partnerships 2024

Strategic Alliances



Training/Product



Conferences





Apprenticeship, Internship, Mentorship

Purpose

- ❖ The ISSA International [AIM (Apprenticeship, Externship, Internships, Mentorships) Committee's purpose is to be an influential force that positively contributes to the cybersecurity workforce profession.

Goals and Objectives

- ❖ To get, maintain, and leverage effective partnerships that help extend core values of ISSA International.
- ❖ Provide guidance to local chapters and industry partners on establishing criteria for effective internship criteria
- ❖ Connect chapters with resources for successful mentorship
- ❖ Work with influencers that help define and codify cyber security apprenticeship programs

ISSA AIM Program Apprenticeship, Internship, Mentorship

Do YOU Have a Program developed to help professionals move from knowledge-based learning to real-world employable skills?


WE are Looking to Build an Alliance with You.

We **AIM** to connect students and professionals switching to a cyber career by sharing relevant and available **Apprenticeship Programs**

We **AIM** to increase workforce development for students and professionals switching to a cyber career by connecting them with paid **Internship Programs**

We **AIM** to provide continuous improvement for professionals entering the cybersecurity field through connected **Mentorship Programs**

Become an ISSA AIM Partner Today

Learn More → 

CFANI ME

ISSA AIM Program

Bridging the Gap from Education to Employment

Apprenticeship Internship Mentorship

2024 Driving Member Value

What we promised/What will deliver

❖ Changes to CEF

- Open to all Cyber Executives (CIO, CFO, CTO, CPO, CRO)
- Member-driven Program Content
- Online Networking through ISSA Social Link

❖ Utilize member surveys

- Provide more channels to share back to the International Team
- Identify/Develop new valued-based member benefits

❖ Expanding Member Benefits

- Partner Relationships to provide
 - Training and skills opportunities
 - Event discounts
- More opportunities participate
 - Special Interest Groups
 - SIG Content Development

❖ Provide regular updates on the association

❖ Create more ISSA engagement opportunities

- President's "Third Thursday"
- ISSA Social Links

❖ Growth of chapters inside and outside US

- US & European chapters events –SIG Events
- Assist Chapters with contacting expired members

❖ Participation in events and activities inside and outside the US

❖ New SIGS

- Emerging Technology
- Ethics SIG and committee

❖ Experiences

- ATLAS Experience
- World of Cyber Venture Capital

2024 International Board Elections

❖ Election Details

- Election held July-Aug 2024
- Eleven candidates for 3 Director positions
- Results announced in August 2024



Gene McGowan

Connie Matthews

John Johnson

**Thank You to Our
Election Committee!**
Committee Chair, Candy Alexander

New ISSA International President



Jimmy Sanders
Congratulations!!!

ISSA International Vice President



Deb Peinert
Congratulations!!!

Newly-Appointed ISSA International COO



Lee Neely

Congratulations!!!

Newly- Appointed ISSA International CFO



David Vaughn

Congratulations!!!

Honoring the Past. Forging the Future.

❖ 40 Years Strong

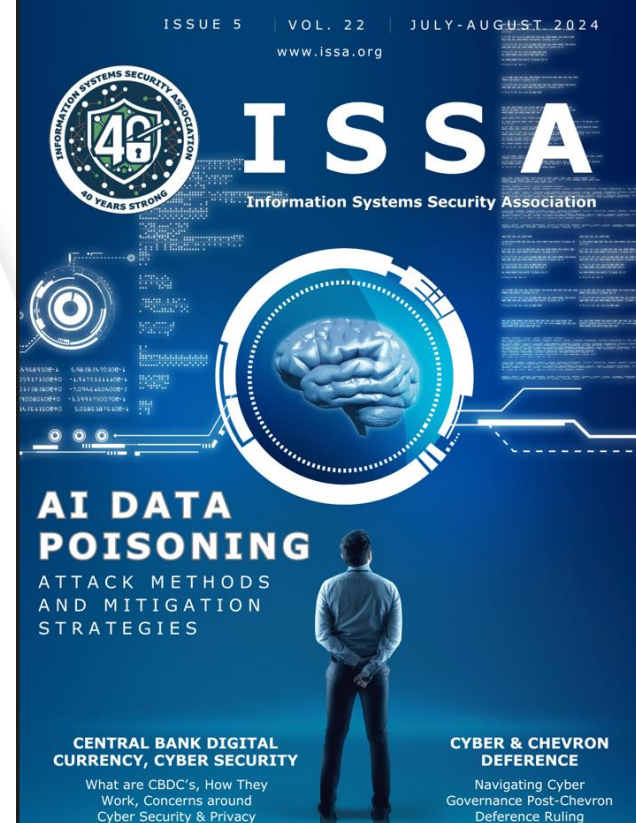
- New logo refresh
- Original Logos Remain
- Anniversary Celebration



Honoring the Past. Forging the Future.

ISSA Journal Bi-Monthly

- New Look
- Redesign



CONTENTS

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FEATURE FOCUS

09 AI DATA POISONING
Celine Gravelines addresses the concern many have around attack methods and mitigation strategies around artificial intelligence data poisoning.

SUPPLEMENTARY SEGMENTS

12 Battling the Emerging Threats as Climate Change and Cybersecurity Overlap

Discover how climate change and cybersecurity intersect, highlighting the new risks posed by green technologies and extreme weather. Learn essential strategies for protecting critical infrastructure against these emerging threats.

16 Central Bank Digital Currency, Cyber Security & Privacy

Examine the dual challenges of cybersecurity and privacy in the context of Central Bank Digital Currencies (CBDCs). Understand the risks and safeguards necessary to protect critical financial infrastructure and personal data.

24 Echoes of a Legacy: Career Reflections of William H. Murray

Hear from ISSA members Gene Spafford and Patricia Gilmore on years of working with William Murray, and memories from William Murray himself.

DEPARTMENTS

04 PRESIDENTS LETTER

Upcoming changes coming in a letter from ISSA President Dr. Shawn P. Murray, find out what's new!

06 EDITORS CORNER

Welcome to the July-August 2024 issue of the ISSA Journal. Editor Jack Freund gives a look into what this issue has to offer readers.

31 EVENT NOTES

Industry Events (Globally), ISSA Specific Events, Sponsored Events, Global Chapter & Meeting Events

SPOTLIGHT

18 Election Spotlight

Review the goals of current candidates for the open Board positions. Members have their digital ballots, and voting closes August 14th.

VOICES

08 CRYPTO CORNER

Understanding LWE - Luther Martin breaks down "Learning with errors" and the relatively easy way to understand it.

26 THE CYBER LIBRARY

William J. (Jay) Carson shares his reviews on the workings of Charles Freilich, Matthew Cohen, and Gabi Siboni on "Israel and the Cyber Threat," and Chris Bernhart's "Quantum Computing for Everyone".

CRYPTIC CURMUDGEON

Explore the multifaceted impact of Official Community Plans on urban development, climate change, and public health. Learn how improving infrastructure, like sidewalks, can simultaneously address greenhouse gas emissions and promote community wellness and how this relates to cybersecurity.

an information security professionals and practitioners. It provides and professional growth of its members. national, not-for-profit association specifically for security professionals. communications, education, healthcare, manufacturing, financial, and an international communications network developed throughout the security community. integrity, and availability of information resources. The ISSA facilitates unity and for the professionals involved.



By: Celine Gravelines

Artificial Intelligence (AI) models rely heavily on the quality and accuracy of their training data which, if subject to attacks such as data poisoning, compromises the effectiveness and reliability of the model itself, leading to potentially severe consequences. Security practitioners must prepare for these threats as AI is increasingly incorporated into standard business practices. This article discusses methods of data poisoning and broader implications of such attacks to the economy, health and safety, and public trust, while presenting a layered strategy to mitigate the risks.

AI Data Poisoning: Attack Methods and Mitigation Strategies

With the rise of AI, the evolving threat landscape requires security professionals to proactively understand the latest attack methods and how best to mitigate the risk and minimize impact, while enabling new innovative business functions. A study from Microsoft identified poisoning attacks as the highest ranked machine learning (ML)-related vulnerability perceived by 28 organizations in the industry [1], indicating data poisoning is a large deterrent for deploying these models. AI depends heavily on the quality of its training data, making that data an attractive asset to manipulate through attacks such as data poisoning. Data poisoning is an adversarial attack in which the training data used to train an ML model is compromised [2]. By manipulating the training data, adversaries can degrade the overall performance of the model (affecting its effectiveness and availability) or are able to create vulnerabilities which can be exploited when used in production (affecting the integrity). The training phase can be enormously expensive to conduct in the first place. OpenAI reported that the training of GPT-4 cost over \$100 million USD [3], demonstrating that compromise of training data would be a major financial setback. Data poisoning attacks happen during the training phase of the machine learning algorithm while similar attacks occurring during the inference phase (i.e., once the model is deployed in production) are classified as evasion attacks [2].

Training data can be compromised in a variety of ways, including via insider threat (e.g., a rogue employee), a compromised system (e.g., external exploitation of infrastructure vulnerabilities to access training database), or a supply chain attack (e.g., compromise of third-party provider that supplies training data). Once access to the training data is available, adversaries can conduct various data poisoning methods to compromise the data, such as the following:

- **Label flipping attacks:** tampering with the ground truth labels associated with the training set, causing the model to be trained on inaccurate data, ultimately compromising the model's integrity and effectiveness (e.g., mislabeling spam email as innocuous to bypass spam filters) [4].
- **Clean-label attacks:** introducing subtle variances to the training data, undetectable to humans, without changing the labels, resulting in incorrect associations [5].
- **Data Injection attacks:** introducing new, malicious data to the training data to mislead it's the learning. These attacks can be direct (to alter the behavior of the model) or indirect (to affect another system operation, similar to a SQL injection) [2].
- **Backdoor attacks:** injecting a specific pattern or "trigger" to the training data, so the model learns to associate this trigger with a particular label, regardless of the rest of the data's content, effectively creating a backdoor [2]. This attack is commonly used in



Sneak Peak 2025



2024/2025 International Board

Executive Officers



Jimmy Sanders,
International President



Deb Peinert,
International Vice President



Lee Neely,
International COO/Secretary



David Vaughn,
International CFO/ Treasurer

Board of Directors



Mary Ann Davidson,
International Director



Gene McGowan
International Director



Connie Matthews,
International Director



John Johnson,
International Director



Laura Harder
International Director



Stefano Zanero,
International Director



Dr. Curtis Campbell,
International Director

ISSA International Team Members



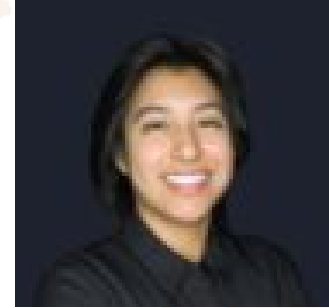
Anne Rogers
Executive Program
Director



Roxane Pirooz
Programs Director



Shaif Salehin
Head of Chapter
Services



Carolina Anota
Head of
Member Services



Elise Yacobellis
Head of Global Market
Development



Justine Diamond
Executive Director, Finance



Rich Marshall
Legal Counsel
Advisor to the Board

We Are Here To Help

- ❖ If you are not currently receiving ISSA member or chapter messages by email (memberservices@issa.org) and you are opted in for messages:
 - Please make sure your ISSA member profile has your current email
 - Please look in spam folder and mark these emails trusted sender
 - If you are using outlook and have your email divided into **Focused** and **Other**, please check the Other folder
- ❖ If you still don't see our messages after checking these folders, please contact memberservices@issa.org and our international team will help to fix the issue

Please contact us with any questions or suggestions

Anne Rogers, Executive Program Director, ISSA International ExecutiveDirector@issa.org

Jimmy Sanders, President, ISSA International
Jimmy.Sanders@issa.org

For issues regarding membership please contact
memberservices@issa.org

Thank You!