The International Council on Systems Engineering

New Member Welcome Center Event

"Maximizing Your INCOSE Journey"

Session 1 (2021 December)

Purpose and Agenda

- The purpose of this briefing is to provide insights to valuable offerings and opportunities for INCOSE members.
- New members will be oriented and become more familiar with the following:
  - Member INCOSE Profile
  - INCOSE website – New Member page
  - Working Groups
  - SE Certifications
  - SE Standards and Guidance (SEBoK, SE Handbook)
  - Publications & Papers
  - Yammer community

Today's Line Up

- About the Welcome Center and New Member Guides (Shakila)
- Introductions (Shakila)
- Guest Speaker (Honor Lind)
- Overview of Opportunities Providing Value to INCOSE Members (Shakila et. al)
- Welcome Center Feedback (chat poll)

About New Member Welcome Center

- The Welcome Center is a social and virtual forum for INCOSE New Members
- Welcome Center cafes aim to onboard, orient and communicate with new members in their initial INCOSE journey
- Welcome Center New Member Yammer community is an online platform that can be used dynamically by members to connect and engage with other Members and locate INCOSE information

New Member Guides

- Senior/Experienced INCOSE members connect and engage with new members via Welcome Center Café events, online collaboration (Yammer) and informal communication avenues (email, MS Teams chat etc.)

Welcome and Introductions

- Welcome to the New Member Welcome Center session
- Let's take a few minutes (10 minutes or less) to learn about each other….
- Guide/Facilitator to share information:
  - Name
  - Brief summary of professional career
  - Years with and roles in INCOSE
  - Personal interests or passions

- New Members to share information:
  - Name
  - Geographic location
  - Brief summary of professional career
  - Why joined INCOSE
  - What looking to gain or learn
  - Personal interests or passions

Discussion

Membership Has Its Benefits!

- Belong to a global Systems Engineering professional society for lifelong learning in systems approaches (e.g., SE body of knowledge and practices)?
- Be part of a community of peers, resources for your career, and a place to be a leader?
- Access to and help create products and advance the practice of SE?
- Expand your professional network by connecting with a community of 18,000+ members in 74 countries?
- Increase your professional network and prominence?

Value to INCOSE Members

What's In It For Me?

Support My Being A Better Systems Engineer…
Improve My Work Products…
Advance My Career…

Professional Development

Increase your technical knowledge through INCOSE webinars, publications, papers and your chapter tutorials

Improve your knowledge and skills

Professional Networking

Connect and engage with your SE peers various INCOSE, sector and chapter events to expand your professional network

Create friendships

Professional Prominence

Advance your visibility and impact by becoming involved in developing, publishing, and presenting on SE topics

Share your technical knowledge and ideas with the community and across professional organizations

Working Groups

Join a working group to help lead, guide and advance technical knowledge

Chapter Involvement

Become involved in your local chapter STEM programs to support the upcoming generation of SE's

Certification

Become a certified to advance your recognition in SE

Leadership

Grow, advance and leave an impact by becoming an INCOSE volunteer

Guest Speaker

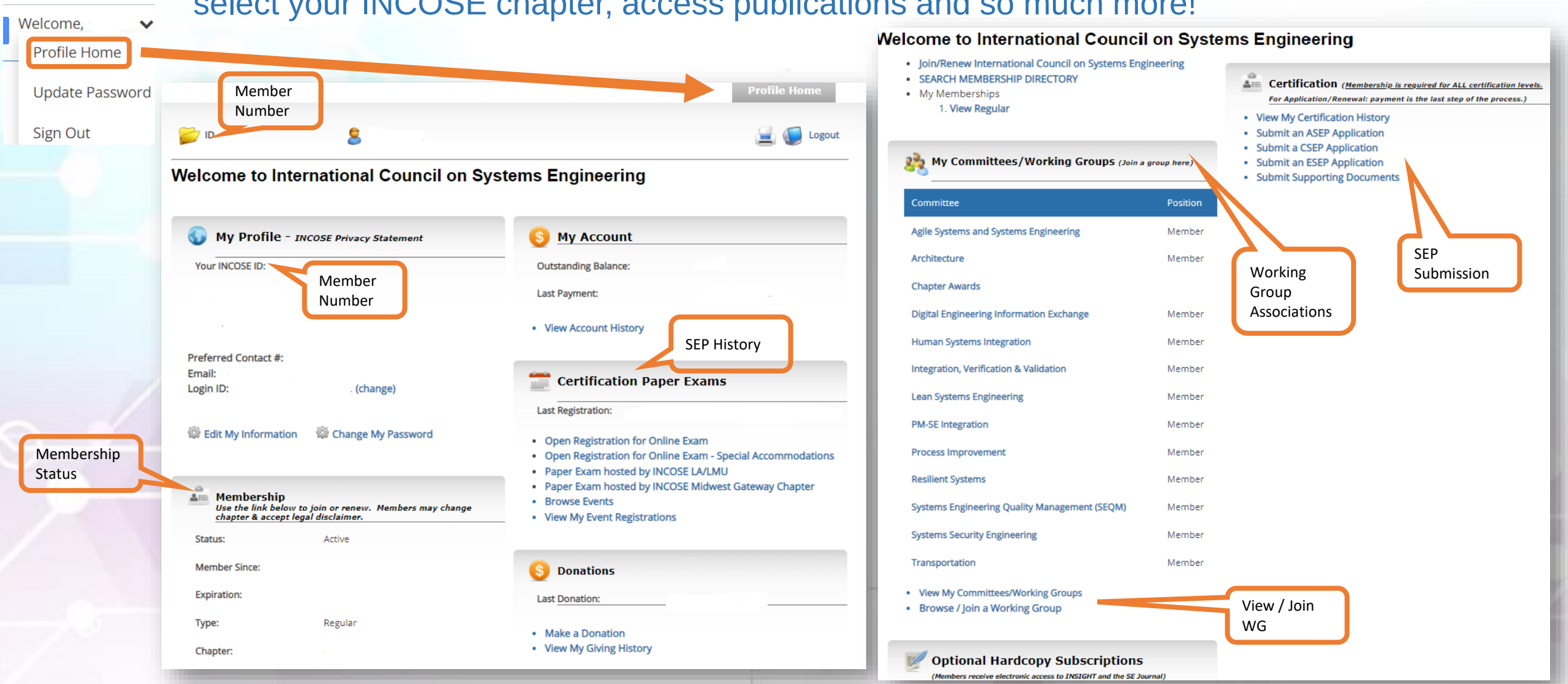
Insights into an INCOSE Journey

Your INCOSE Profile

*Locating INCOSE ID
*Chapter, WG Affiliations
*Membership Status
*Certification Status

Your Member Profile

From www.incose.org, log into your INCOSE account, access your profile. You can select your INCOSE chapter, access publications and so much more!



New Member Page via INCOSE Website

*Locate information about INCOSE Offerings
*Updates Forthcoming…

INCOSE Public Site

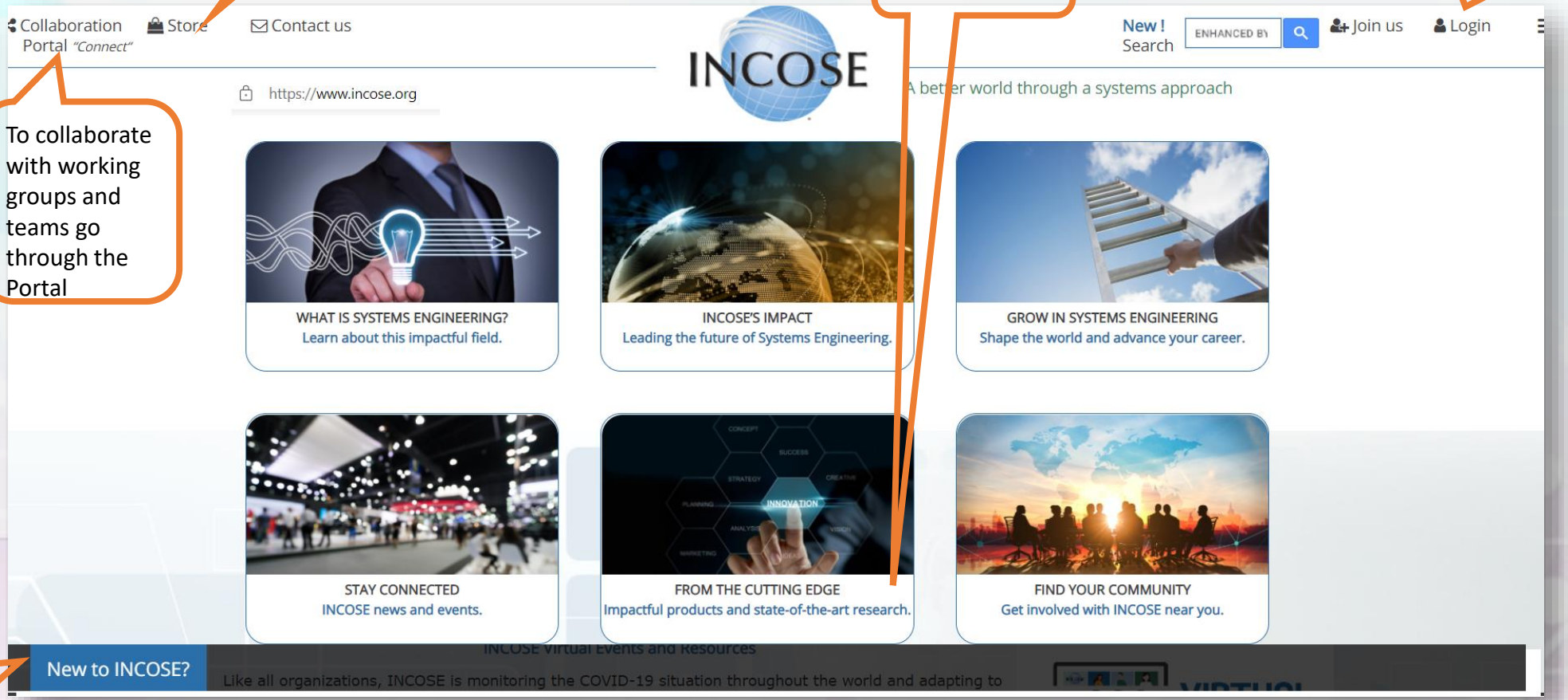
- The INCOSE website is the way to access the latest information and resources
- Visit www.incose.org to log into your INCOSE account, access your profile, assign your INCOSE chapter, access publications and so much more!
- Access to the INCOSE Connect portal - (https://connect.incose.org/Pages/Home.aspxrg)

Purchase and download INCOSE publications

Use your login ID and password to access the intranet

Portal to SE Resources

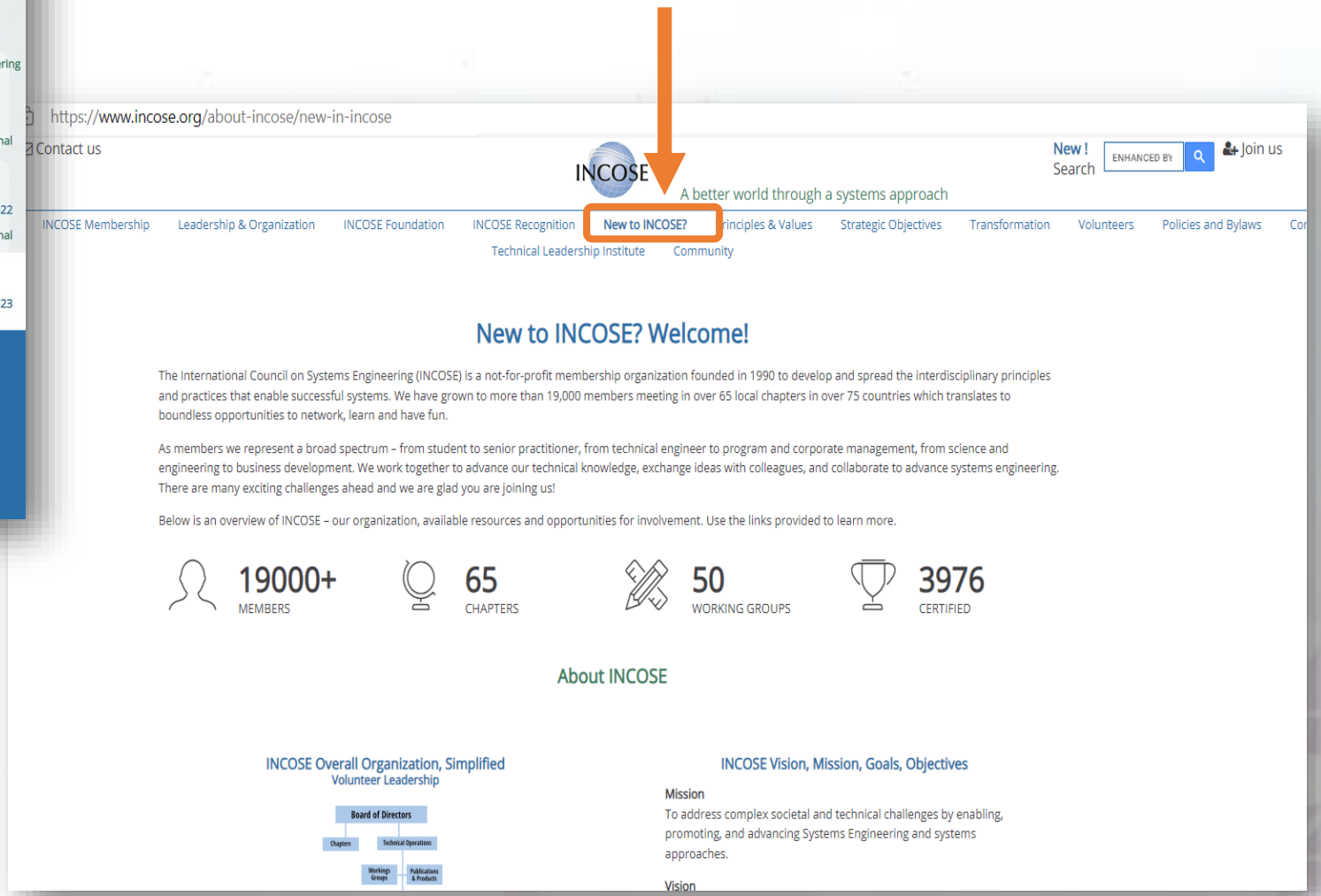
To collaborate with working groups and teams go through the Portal



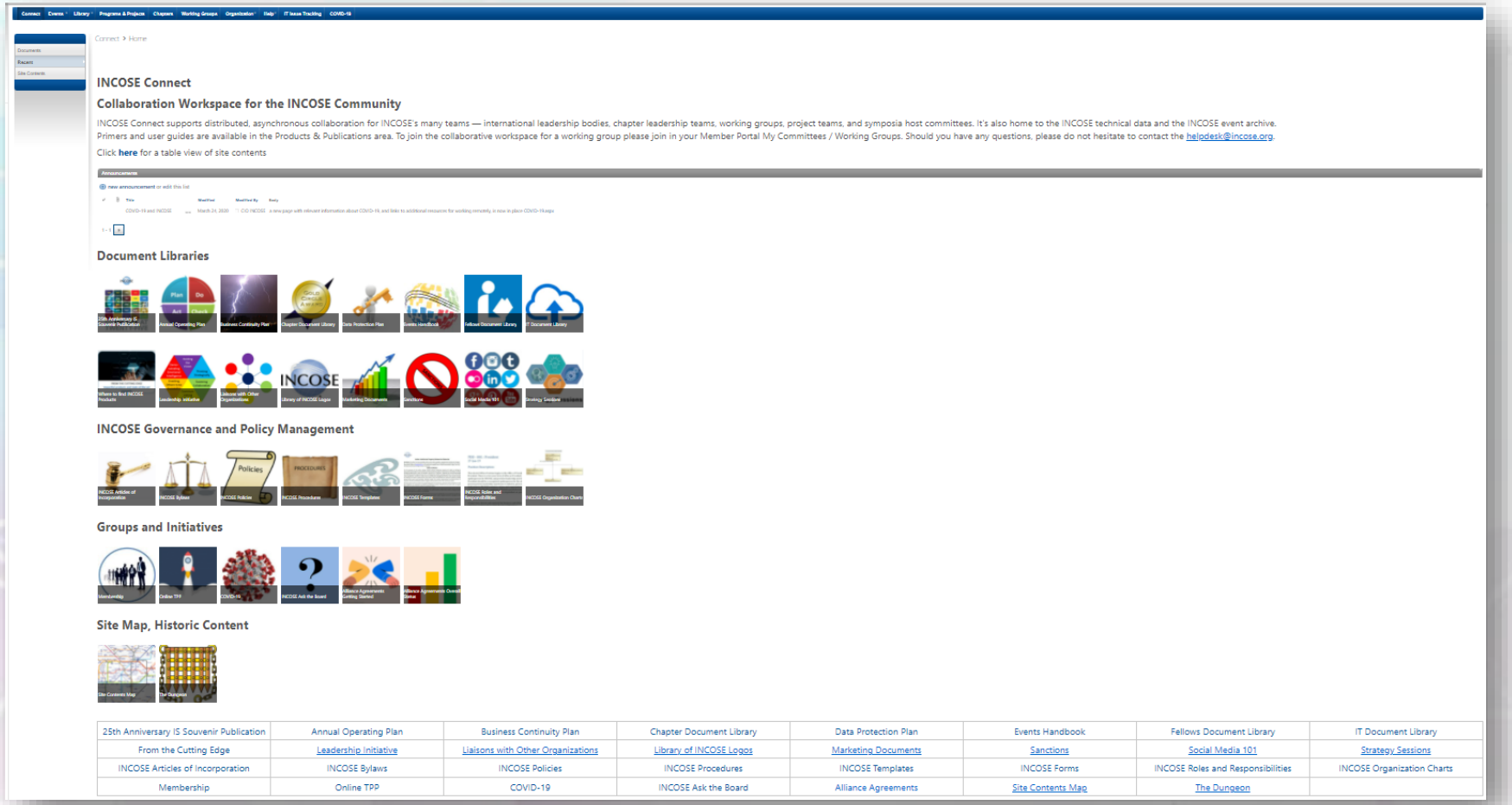
Locate New Member information

New Member Page

Found at bottom of INCOSE Website Main Page



INCOSE Intranet – INCOSE Connect Portal



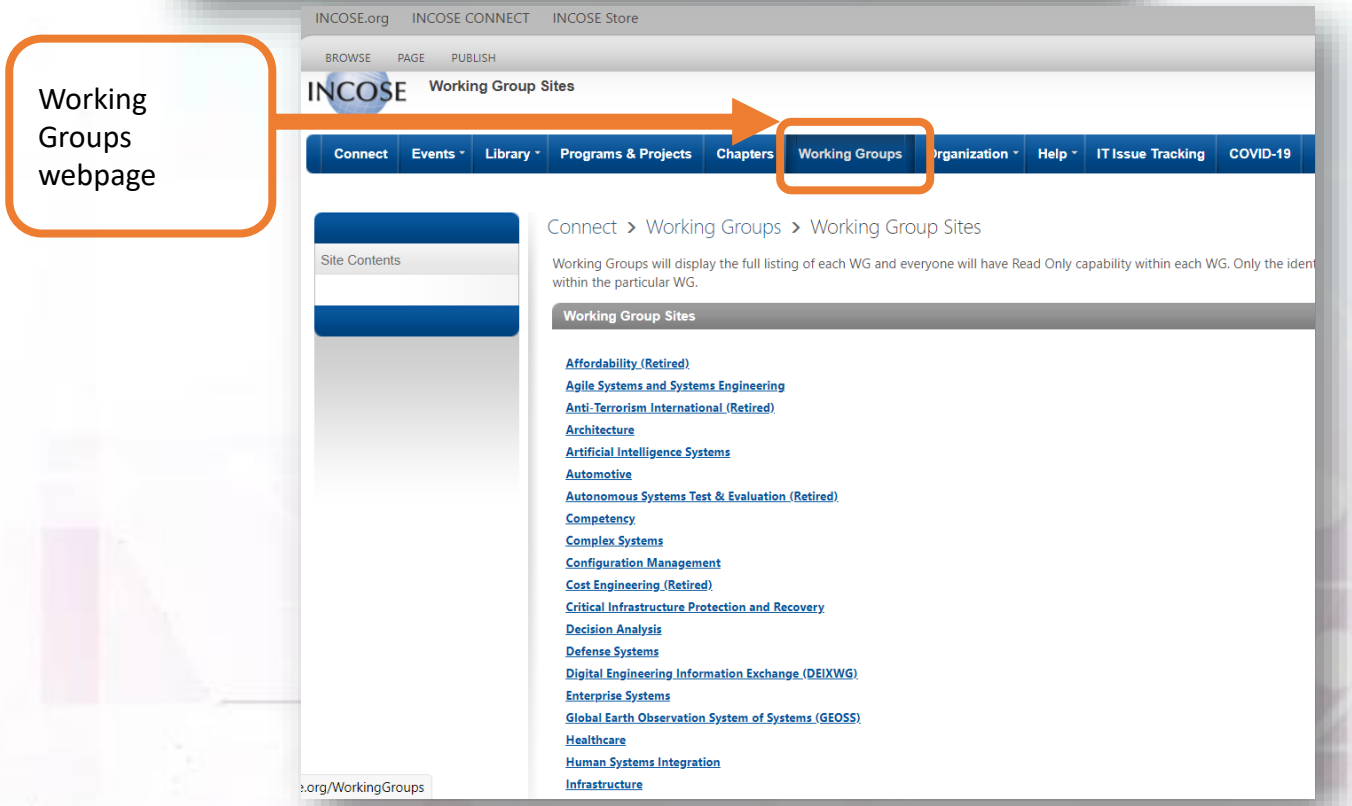
- Supports distributed, asynchronous collaboration for INCOSE's many teams (international leadership bodies, chapter leadership teams, working groups, project teams, and symposia host committees)
- Home to the INCOSE technical data and the INCOSE event archive.
- Primers and user guides are available in the Products & Publications area.
- To join the collaborative workspace for a working group please join in your Member Portal My Committees / Working Groups.

INCOSE Working Groups

*Join a WG to Contribute to SE Knowledge Area

Working Groups

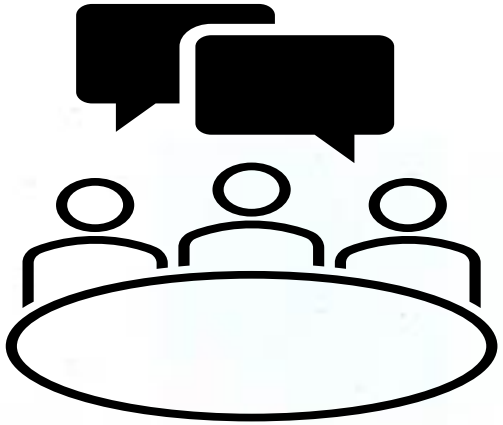
- Working Groups (WGs) are the resource for practitioners to forward SE thought, products etc.
- Varied operating models and rhythm among WGs
- Participants discuss, collaborate, share in person, and online on **51** Active WGs in INCOSE across a wide diversity of interests.
- INCOSE WG members create products, present panels, develop and review standards.
- View the INCOSE Working Groups - https://www.incose.org/incose-member-resources/working-groups or via https://connect.incose.org and select "Working Groups"



Working Group Members

- Bring value to other INCOSE stakeholders in an interest area
- Build expertise and contacts
- Help develop and review international standards
- Share information across WGs
- Create products to advance the state, art and practice of SE
- How to Join a Working Group (found on the working group page)
  - Membership in Working Groups is open to any INCOSE member. To join a group:
  - Log into your INCOSE account
  - Go to your Profile Page, and scroll to the bottom left section titled "My Committees and Working Groups"
  - Click the link for "Browse / Join a Working Group"
  - Find the desired Working Group and click on View to see roster; the Join option is at the bottom of the page
  - Additionally, email the Working Group leaders by clicking on their name(s) from the Working Groups page and sending them an email expressing your interest!

Discussion



Which Working Groups Interest You?

How Do You Plan to Get Involved?

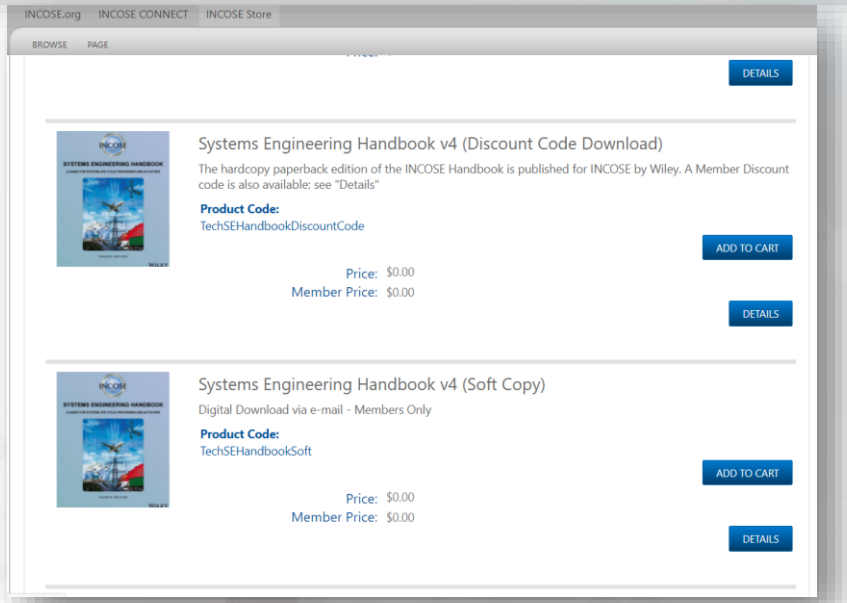
SE Knowledge Resources

*SEBoK and SE Handbook for Practitioners

SE Knowledge Resources

- SE Body of Knowledge (SEBOK)
  - Access to SE Journal, INSIGHT Magazine and INCOSE Newsletter
  - https://www.sebokwiki.org/wiki/Guide_to_the_Systems_Engineering_Body_of_Knowledge_(SEBoK)

- SE Handbook – free download for members from INCOSE Store
  - https://connect.incose.org/pages/store.aspx
  - Describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system



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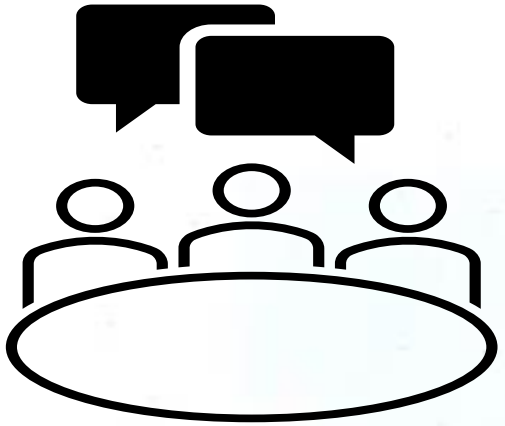


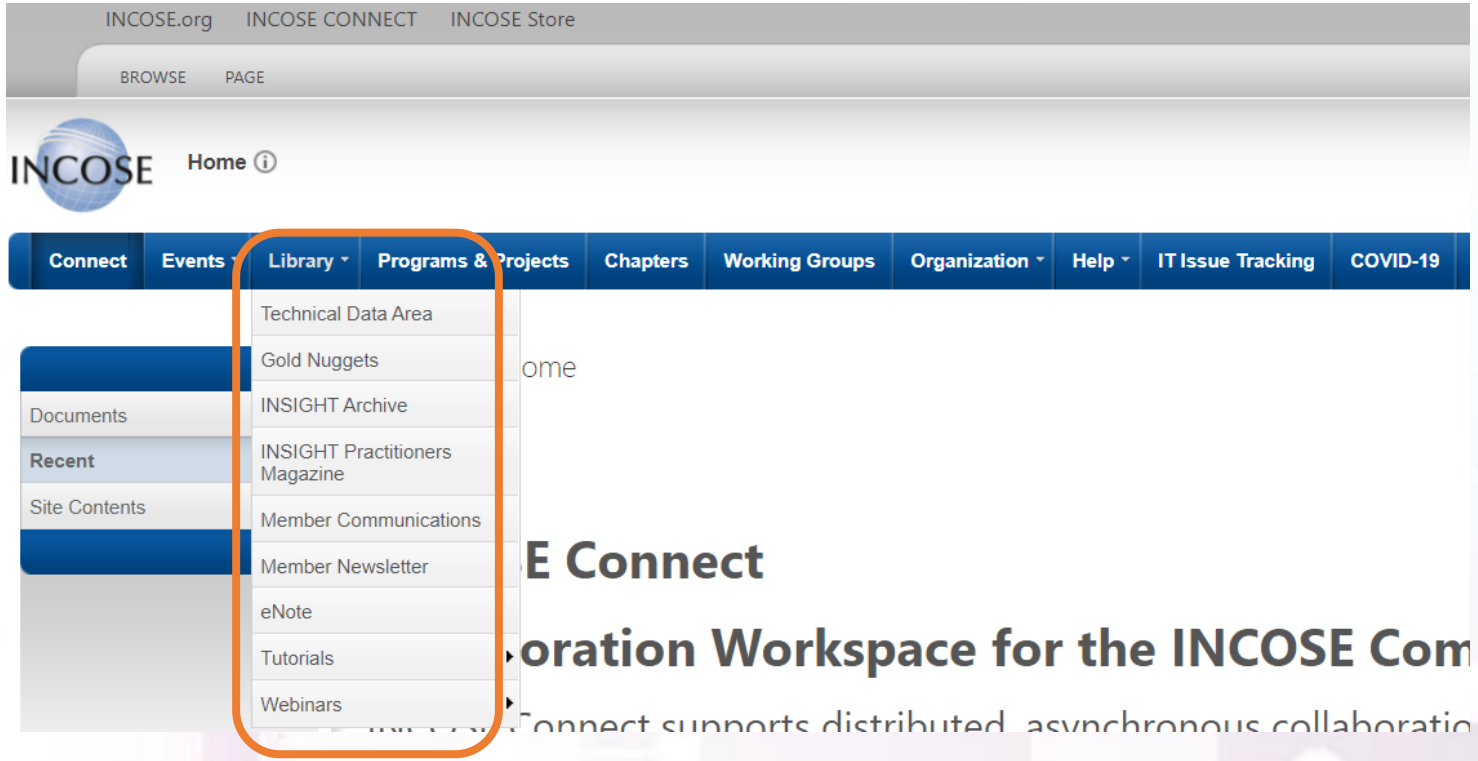
How Will You Use the SEBoK and SE Handbook?

Publications & Papers

*Publications- INCOSE Journal, eNote, Newsletter
*Papers – Accessible via INCOSE website for members

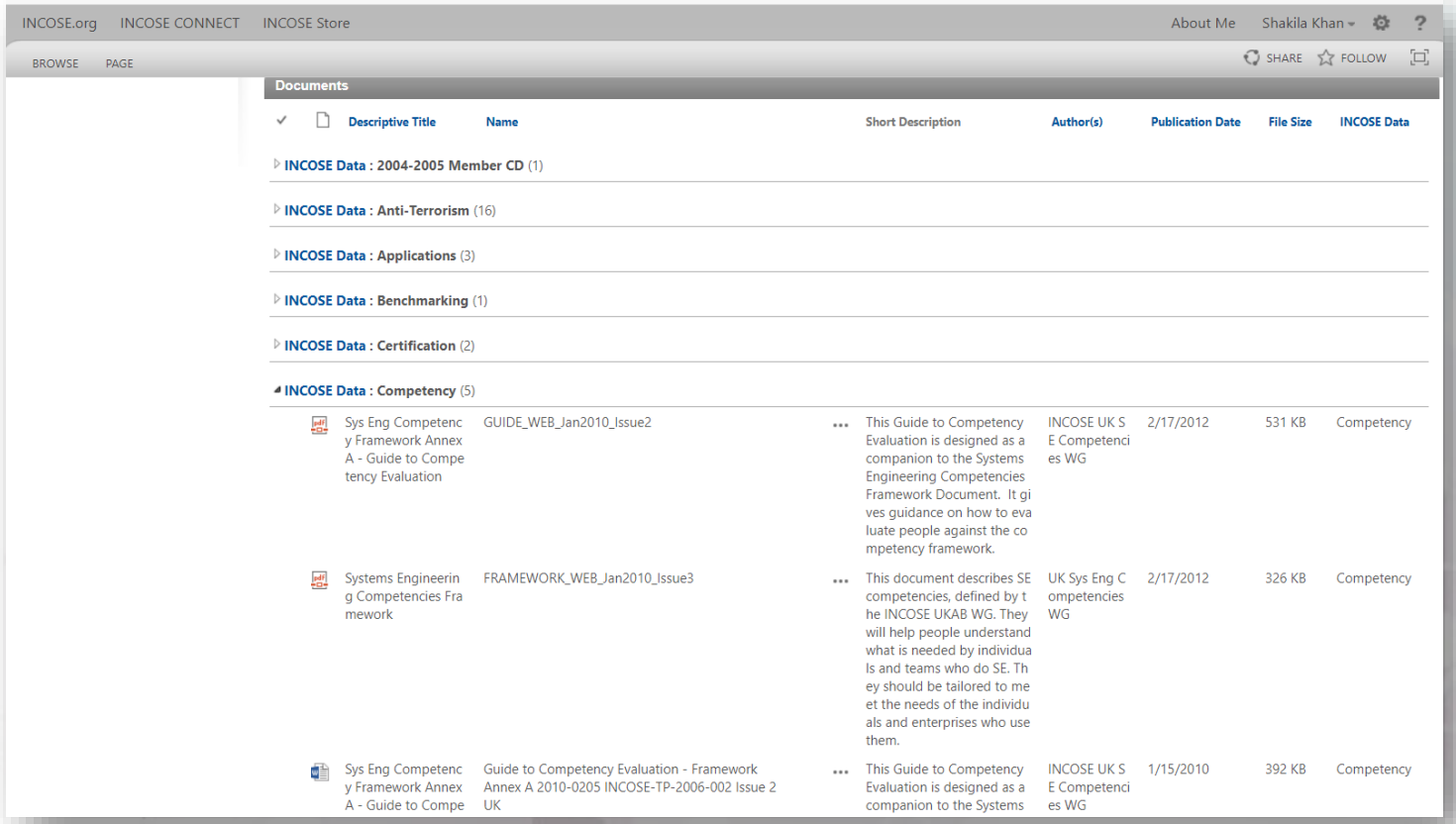
The INCOSE “Library” Periodicals and Papers

- Periodicals
  - Systems Engineering (SE Journal) - full-text versions of papers
  - INSIGHT - magazine of International Council on Systems Engineering. It is published four times per year.
  - INCOSE Members Newsletter - published every quarter and seeks articles and news items of interest.
  - https://www.incose.org/products-and-publications/periodicals
- Proceedings/Papers
  - Papers & Presentations Library is a search engine for presentations from INCOSE conferences.
  - https://www.incose.org/products-and-publications/papers-presentations-library



INCOSE Products

- INCOSE Store
  - Purchase and order INCOSE products via https://connect.incose.org/pages/store.aspx
- Technical Publications/Products (WGs)
  - Members have access to free soft copy downloads - https://www.incose.org/products-and-publications/technical-publications
  - Publications from WG's found in the "Library" under "Technical Data Areas" https://connect.incose.org/Library/TechnicalData/Pages/Home.aspx



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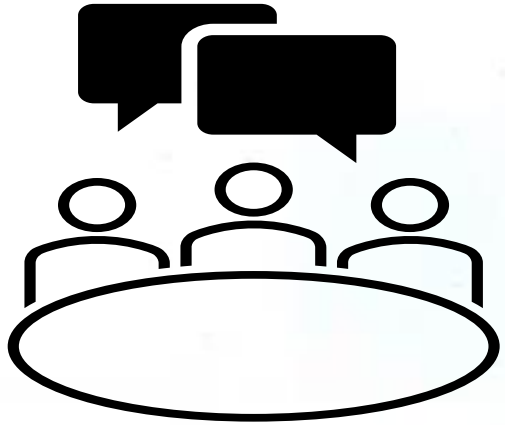
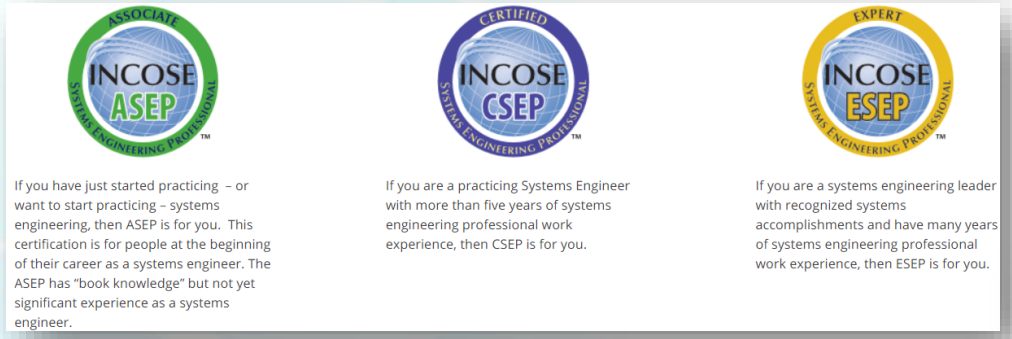


Have You Perused The Available Publications?
Which Ones Peak Your Interest?

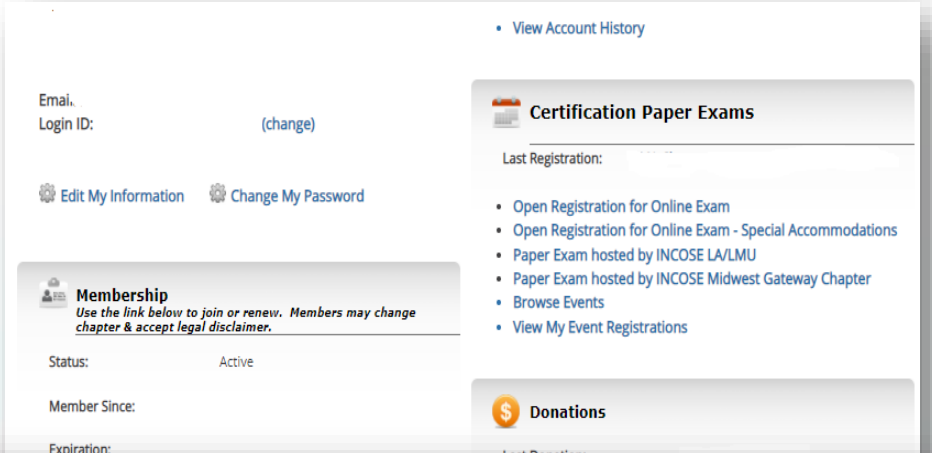
Systems Engineering Professional (SEP) Certification

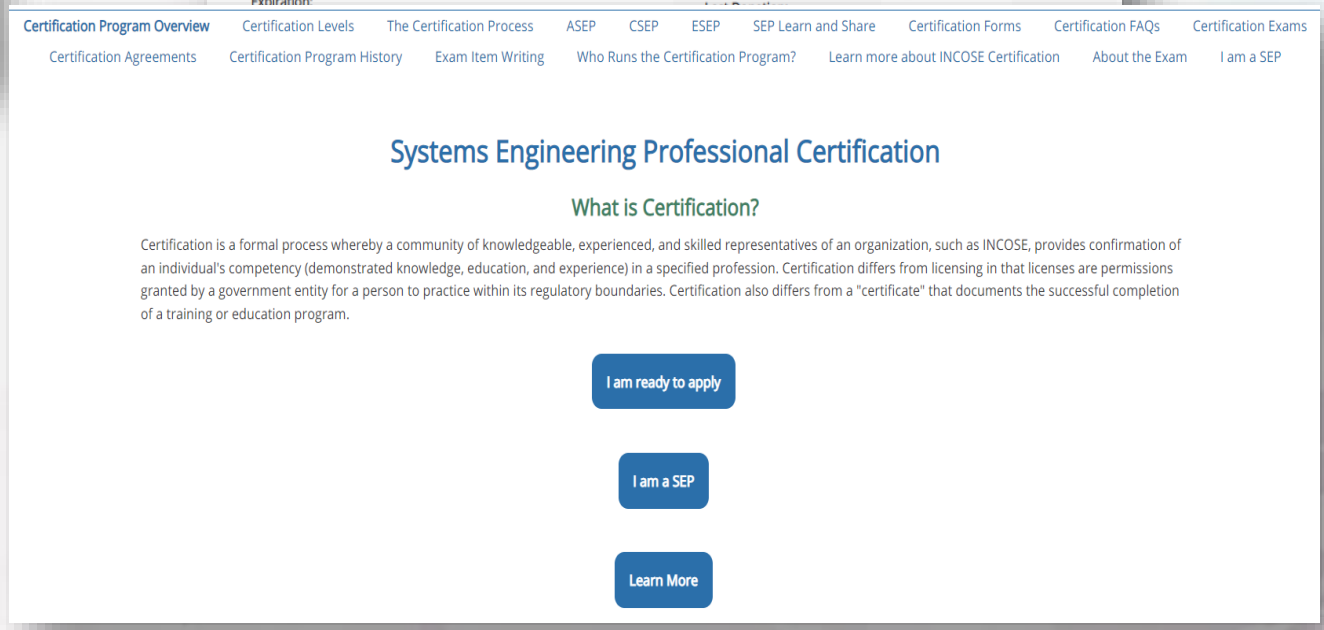
INCOSE SEP Certifications

- Three levels of INCOSE SEP Certification



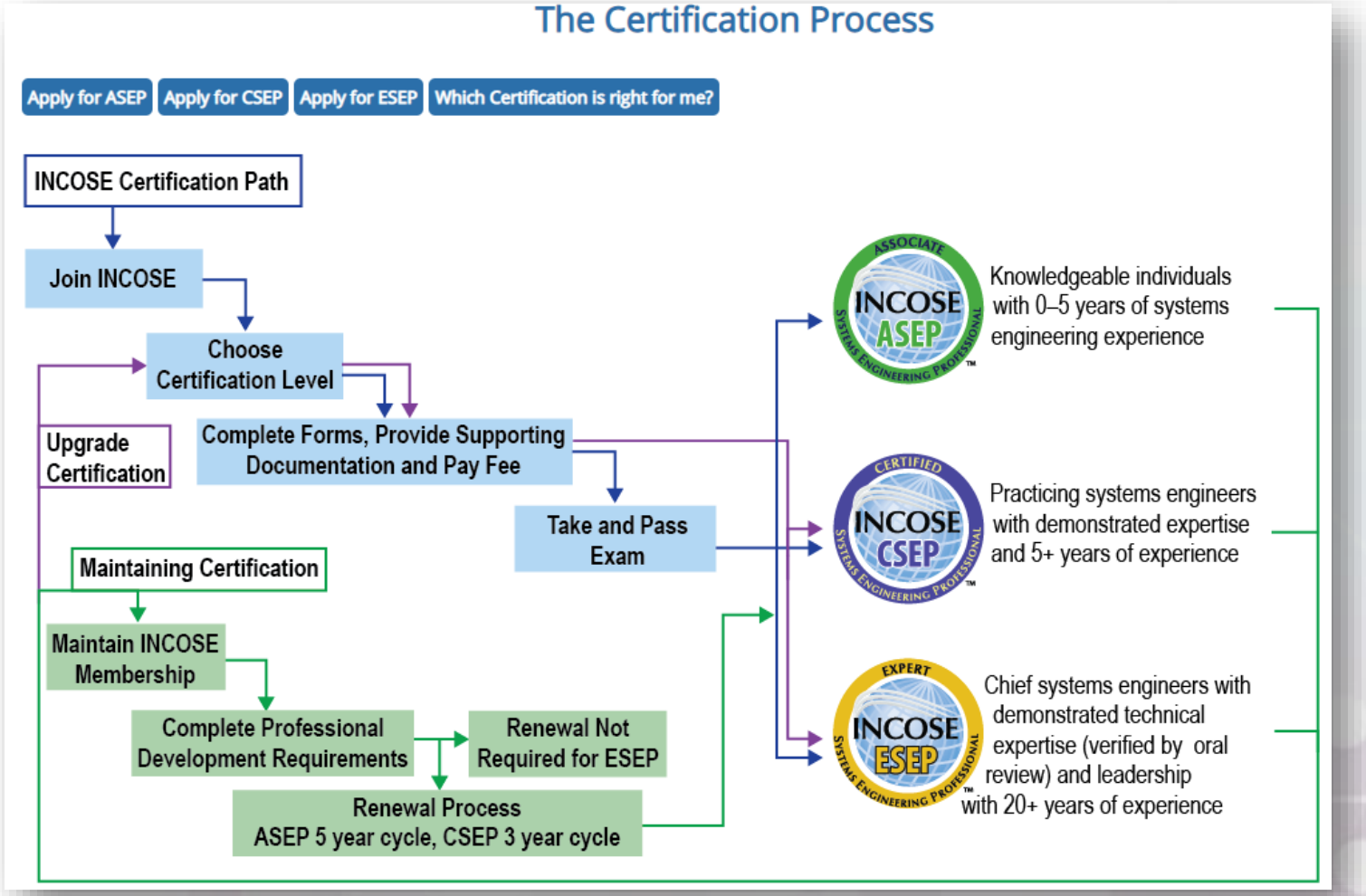
- Learn about INCOSE Systems Engineering certifications program - https://www.incose.org/systems-engineering-certification/certification
- The certification levels - https://www.incose.org/systems-engineering-certification/Certification-Levels





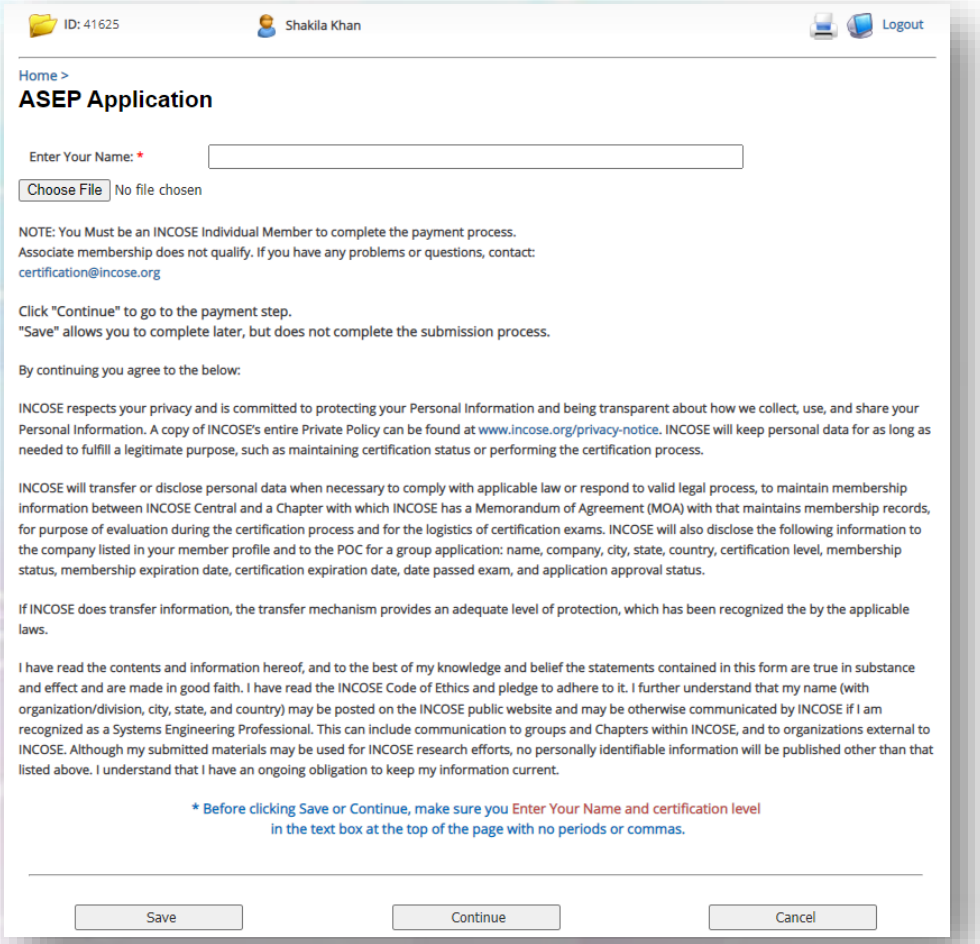
Certification Submission via Profile

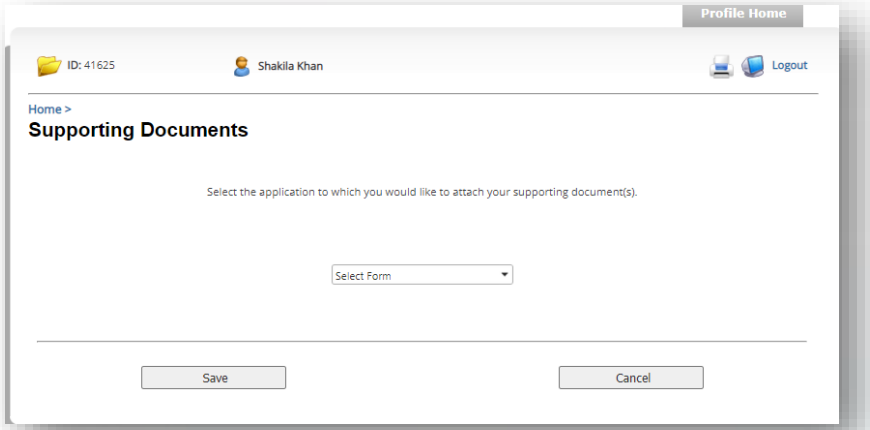
- The certification process is explained at https://www.incose.org/systems-engineering-certification/the-certification-process

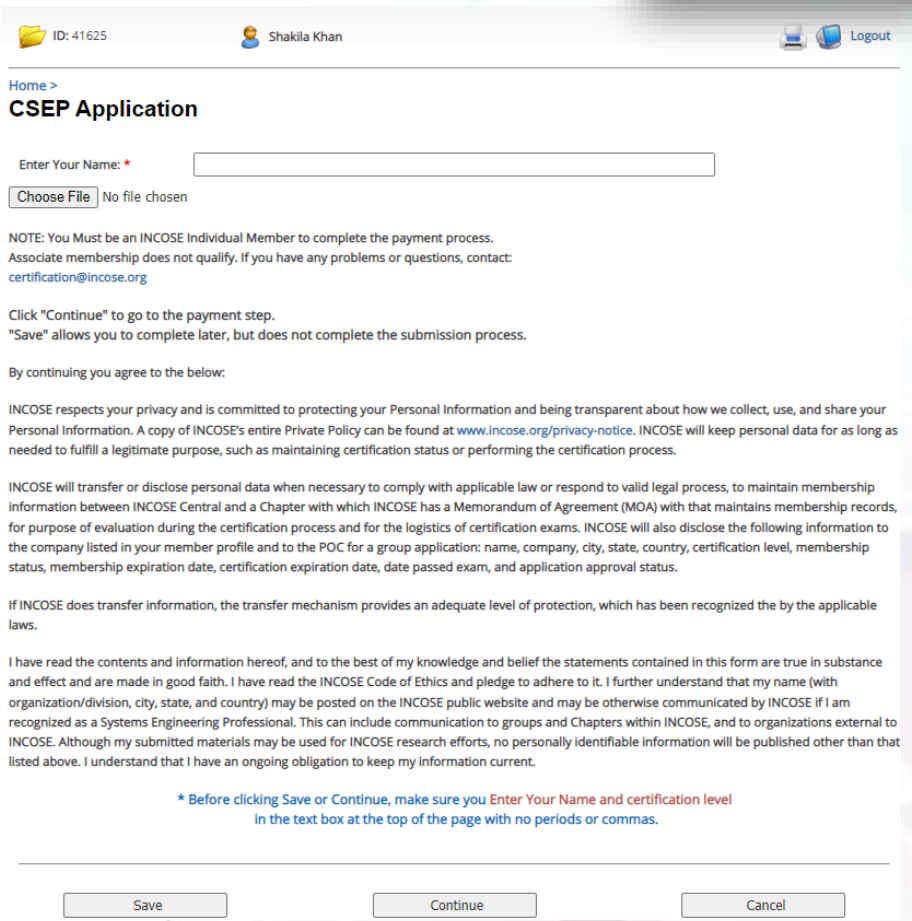


SEP Applications

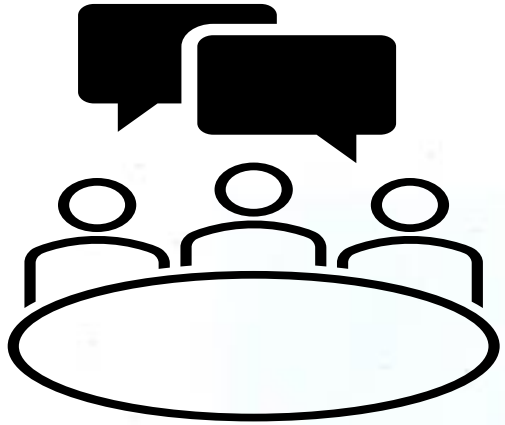
Access Your Member Profile to submit a SEP application







Discussion



Are You Interested in Pursuing a Certification?

INCOSE Workshop and Annual Conference

INCOSE Events

Access specific events from toolbar at the top of the page

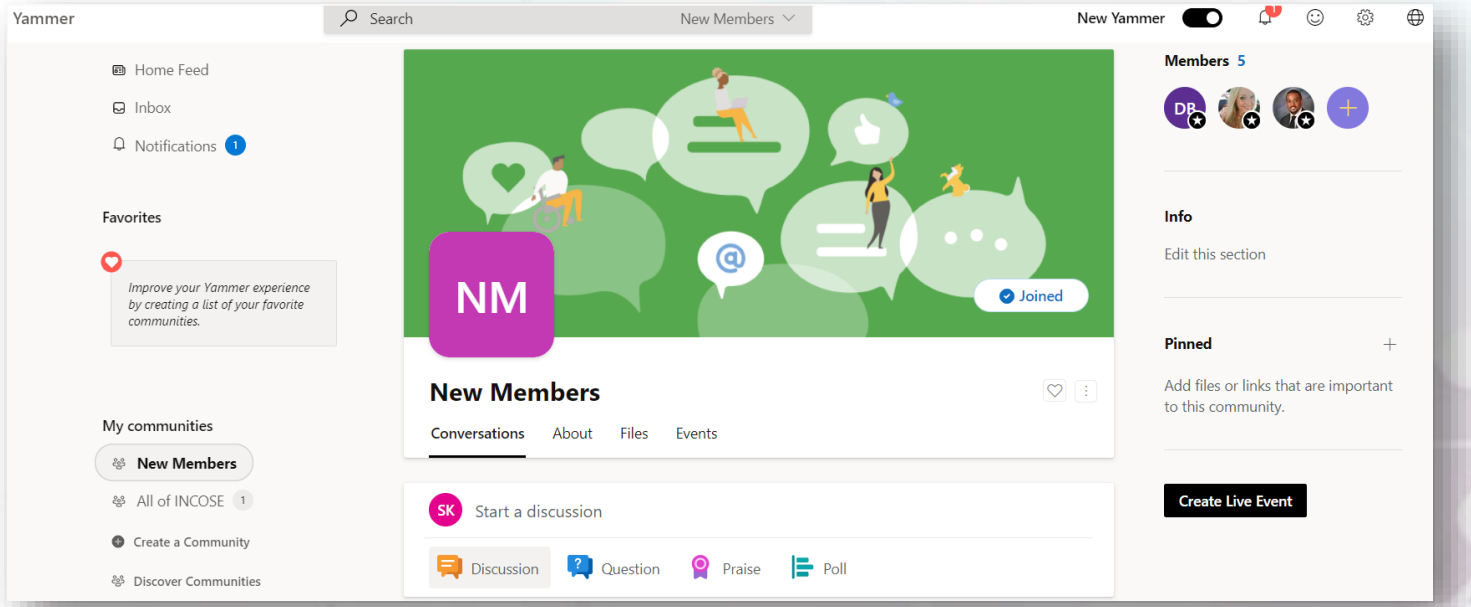
- Listing of INCOSE Events (international, regional or local chapter) found at https://www.incose.org/events-and-news/events
- At this site, you will find a listing of upcoming informational sessions, a link to the annual International Working Group (IW) and the International Symposium (IS) conferences.
- International Workshop - attendees spend 4 days working alongside fellow systems engineers working sessions and contribute their knowledge and experience to take the discipline forward. Find information on IW2022 @ https://www.incose.org/iw2022/what-is-the-international-workshop
- International Symposium - largest worldwide annual gathering of people who do systems engineering for four days of presentations, case studies, workshops, tutorials and panel discussions. Find information on IW2022 @ https://www.incose.org/symp2022/home/what-is-the-international-symposium

Connecting across INCOSE

*Yammer

New Member Yammer Community

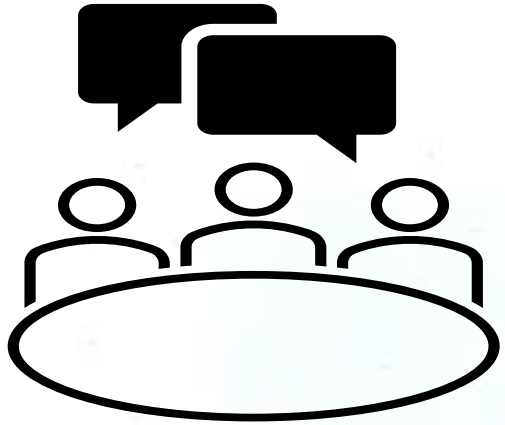
- Yammer, a Microsoft 365 products, is used within INCOSE to connect and socialize in and among communities
- This is a community for YOU, INCOSE New Members to network and discuss topics of interest
- Add yourself to a community to engage in conversation and learn more - via MS Teams or website (Yammer.com)
- Link: (1) Yammer - New Members



Chapters & Groups

- At the heart of INCOSE is the ability to connect people.
- Whether you are interested in increasing your circle of influence, or in working on an issue, INCOSE Chapters and Working Groups offer unparalleled points of connection.
- Search for an INCOSE chapter - https://www.incose.org/incose-member-resources/chapters-groups

Discussion



What Member Benefits Are You Interested In Pursuing?

Have you engaged with your local chapter?

Welcome Center Poll

We want YOUR Feedback on today's Welcome Center event (e.g., chat poll)

1. What did you like about this Welcome Center event?
2. What can be improved for future Welcome Center events?
3. How else do you want to be supported to become more involved within INCOSE?

Contact Us @ nme@incose.net

Systems Engineering: Importance & Impact

- Systems engineers are at the heart of creating successful new systems.
  - As an SE you are responsible for the system concept, architecture, and design.
  - As an SE you analyze and manage complexity and risk.
  - As an SE you decide how to measure whether the deployed system actually works as intended.
  - As an SE you are responsible for a myriad of other facets of system creation.
- Systems engineering is the discipline that makes your success possible – their tools, techniques, methods, knowledge, standards, principles, and concepts.
- The launch of successful systems can invariably be traced to innovative and effective systems engineering.

About INCOSE

- Founded to develop & disseminate the interdisciplinary principles and practices enabling successful systems – 31+ years of INCOSE!!!
- Connects Systems Engineering professionals with educational, networking, and career-advancement opportunities
  - Developing the global community of systems engineers and systems approaches to problems
- Focused on producing state-of-the-art work products that support and enhance Systems Engineering global visibility

Vision, Mission & Goals

- Vision
  - A better world through a systems approach.
- Mission
  - To address complex societal and technical challenges by enabling, promoting, and advancing Systems Engineering (SE)and systems approaches.
- Goals
  - Be a focal point for dissemination of systems engineering knowledge
  - Promote international collaboration
  - Assure the establishment of professional standards in systems engineering
  - Improve the professional status of all Systems Engineers
  - Encourage governmental and industrial support for System Engineering
- Visit https://www.incose.org/about-incose to view the vision, mission and goals

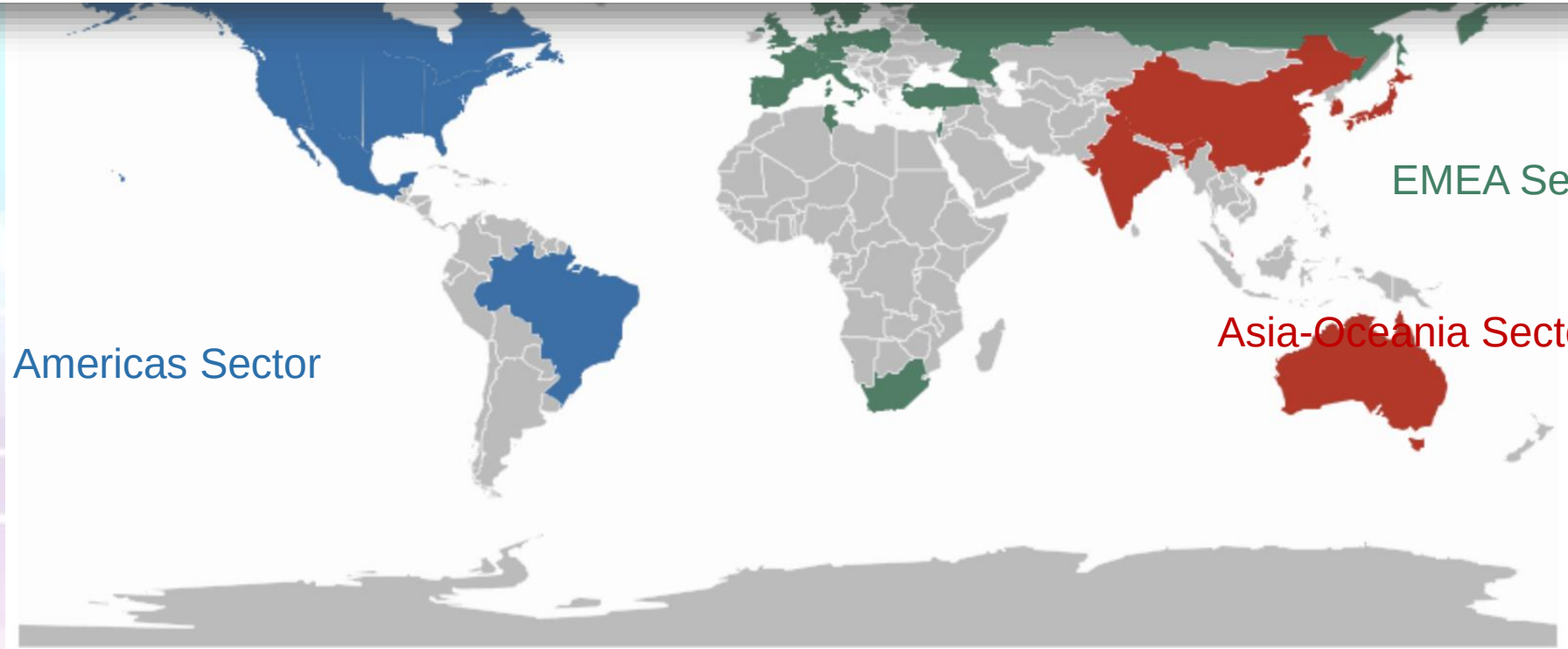
INCOSE Reach

18000+ MEMBERS

74+ CHAPTERS

55 WORKING GROUPS

3182 CERTIFIED

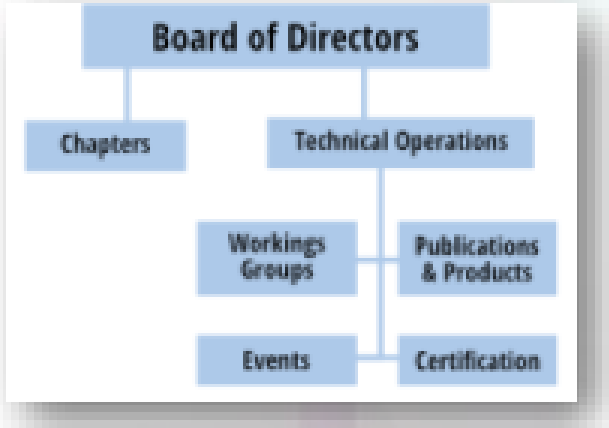


Values & Principles

- INCOSE Values
  - Systems Thinking
  - Pioneering and Innovation
  - Learning and Development
  - Respect, Diversity, Collaboration
  - Individuals
  - Volunteerism
- INCOSE Principles
  - Impact
  - Partnership
  - Holism
  - Differentiation
  - Volunteers

INCOSE Organization

- INCOSE is an organization of volunteers who have a passion and desire to forward systems engineering
- The INCOSE Board of Directors (BoD) leads on the INCOSE strategy and policies.
  - The BoD leadership is available at https://www.incose.org/about-incose/leadership-organization

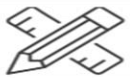


- INCOSE Organization chart - https://www.incose.org/about-incose/incose-organization-chart

Our Members Improve the World

18000+
MEMBERS

74+
CHAPTERS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WORKING GROUPS

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CERTIFIED

- INCOSE membership represents a broad spectrum – from student to senior practitioner, from technical engineer to program and corporate management, from science and engineering to business development.
- Members work together to advance their technical knowledge, exchange ideas with colleagues, and collaborate to advance systems engineering.
- Our members:
  - drive the discipline forward, developing state-of-the-art solutions and products for their customers.
  - solve real-world problems and save time and money in the process.
  - improve system performance, drive change, and make a lasting impact on the world of systems engineering.
- Visit the New Member page (https://www.incose.org/about-incose/new-in-incose) on the INCOSE website