

AIAA Volunteer Leader Onboarding Session

April 28, 2023

Laura McGill
AIAA President

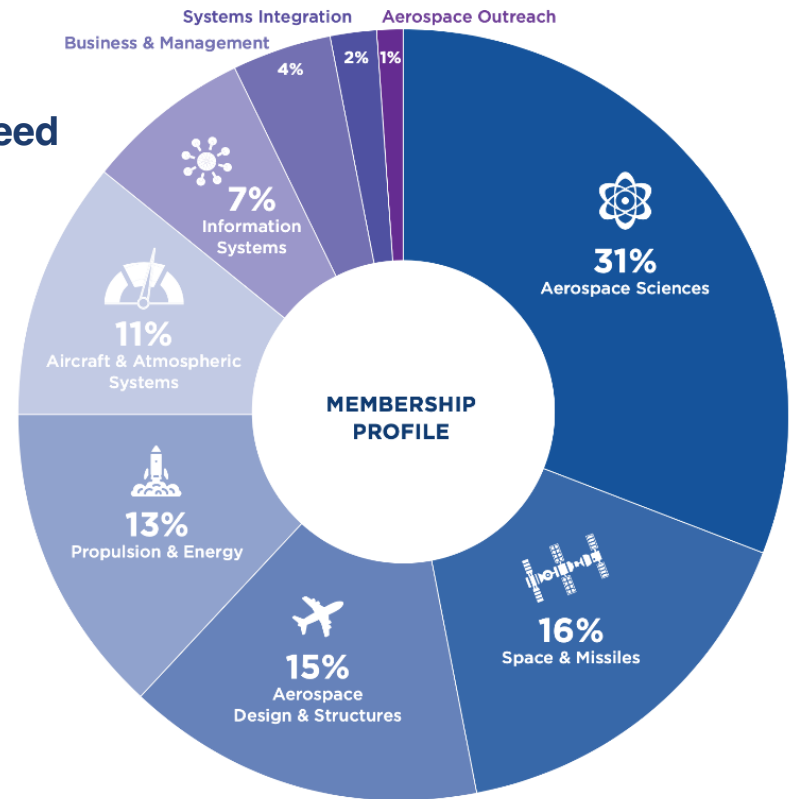
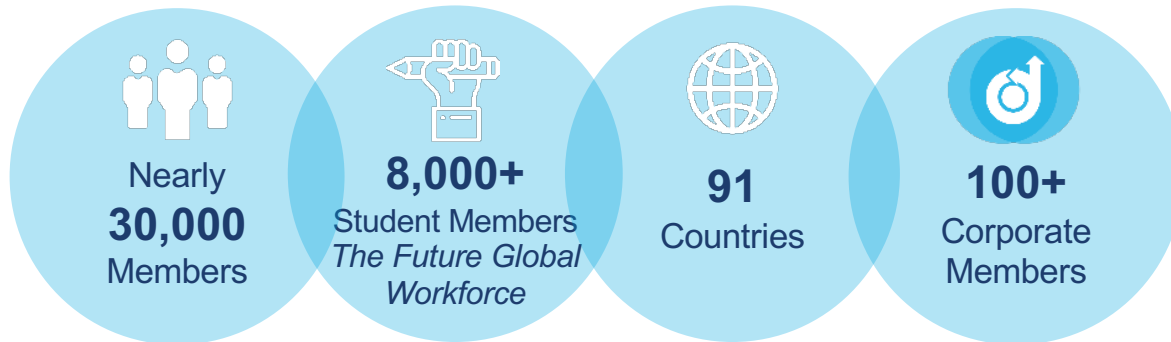
Agenda

- Welcome
- AIAA Today
- Vision and Mission
- Governance
- Financials
- Strategic Plan and Milestones
- Domains
- Upcoming Events
- Volunteer Leaders Expectations

AIAA Today

AIAA MISSION:

To help aerospace professionals and their organizations succeed



AIAA Foundation

S.T.E.A.M

SCIENCE | TECHNOLOGY |
ENGINEERING | ARTS | MATHEMATICS

Funded 1,600+ K–12 classroom grants
Impacting over 255,000 students

Awarded 1,350+ aerospace scholarships

Supported 13,000+ students through conferences
13,000+ college students participated and presented

Engaged 23,000+ students
Sponsored hands-on design & engineering competitions

Inspired 100,000+ students and 5,000 educators
through hands-on programming annually

Provided 98 micro-lessons for K–12 teachers

Downloadable lessons focused
on aerospace principles

K-12

Design
Build
Fly

Diversity
Scholars
Program

Supporting
Industry
Collaboration

Scholarships &
Graduate
Awards



The AIAA Foundation prides itself on its commitment to the continued study of science, technology, engineering, and mathematics. This commitment has been made possible for the past 25 years with the support and generosity of our esteemed donors.

What We Do

AIAA'S VISION IS TO BE THE VOICE OF THE AEROSPACE PROFESSION THROUGH INNOVATION, TECHNICAL EXCELLENCE, AND GLOBAL LEADERSHIP



LEAD HUMANITY
BEYOND PLANET EARTH



DEFINE NEXT
CENTURY OF FLIGHT



CREATE THE
WORLD WE DREAM

AIAA KEY ROLES

Connect People, Ideas, and Resources

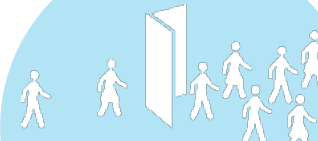
Advance Career Journeys

Build Technical Agility and Cohesion

Establish United Front to Solve Critical Issues



Building a Diverse
and Inclusive
Workforce



Meeting Tomorrow's
Workforce
Demands



Enabling Knowledge
Transfer

Mission, Vision, Tagline

Our Mission:

AIAA exists to help aerospace professionals and their organizations succeed

Our Vision:

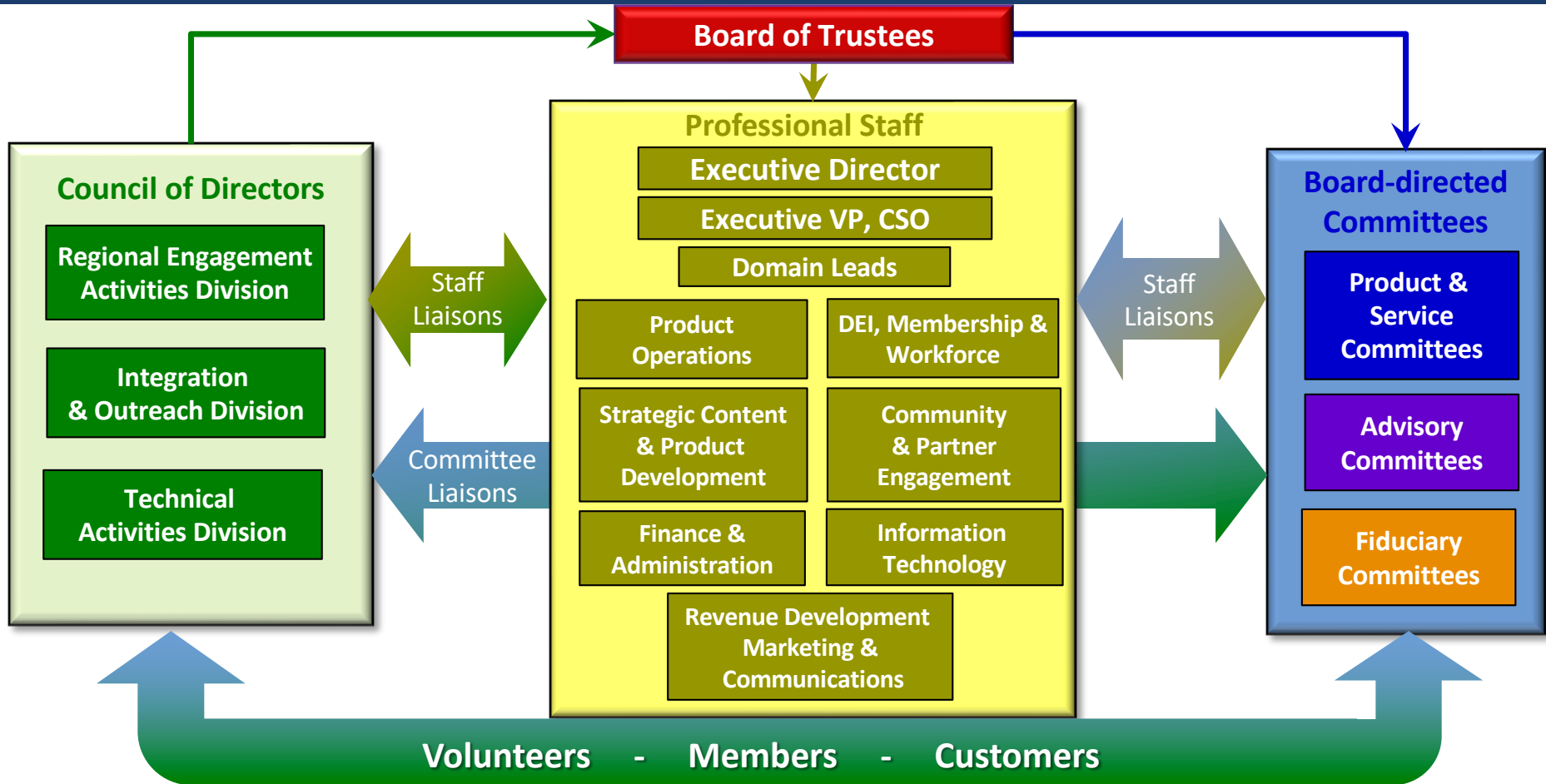
AIAA's vision is to be the voice of the aerospace profession through innovation, technical excellence, and global leadership

Our Tagline:

“Shaping the Future of Aerospace.”

This reflects our belief that AIAA members are continually shaping the future of aerospace through their creativity, ingenuity, and passion for aerospace engineering and science

Governance Operations



Governance Resources

Governance Documents

AIAA Constitution

AIAA Bylaws

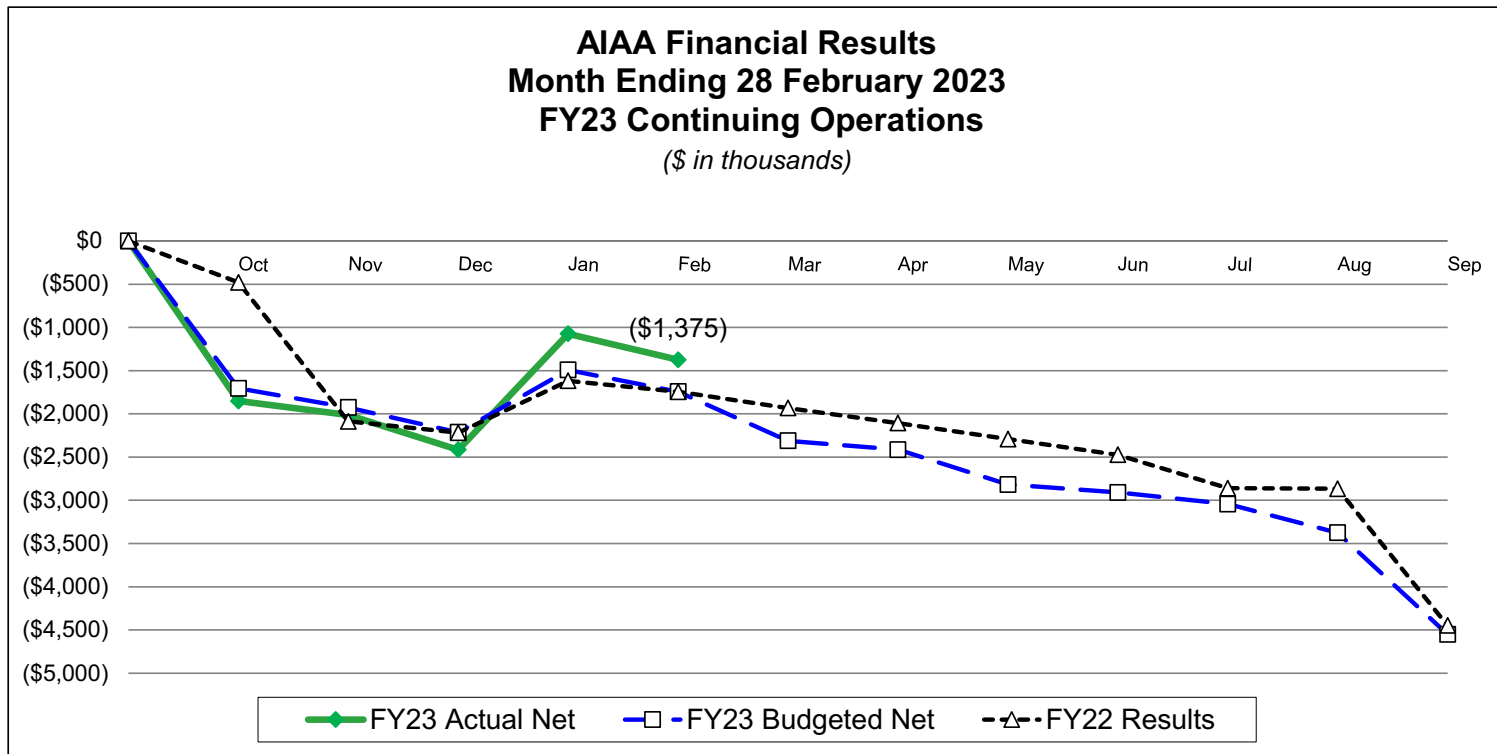
AIAA Governance Organization

AIAA Code of Ethics

AIAA Member Whistleblower Policy

AIAA Anti-Harassment Policy

FY23 YTD Operating Results by Month



AIAA Strategic Goals

MISSION

AIAA EXISTS TO HELP AEROSPACE PROFESSIONALS AND THEIR ORGANIZATIONS SUCCEED

CORE STRATEGIES



DATA DRIVEN Use the appropriate data in the analysis of decisions



CURATE CONTENT Be the leader in curated aerospace content



THOUGHT LEADER Be the thought leader in technology and capability advancement

GOALS

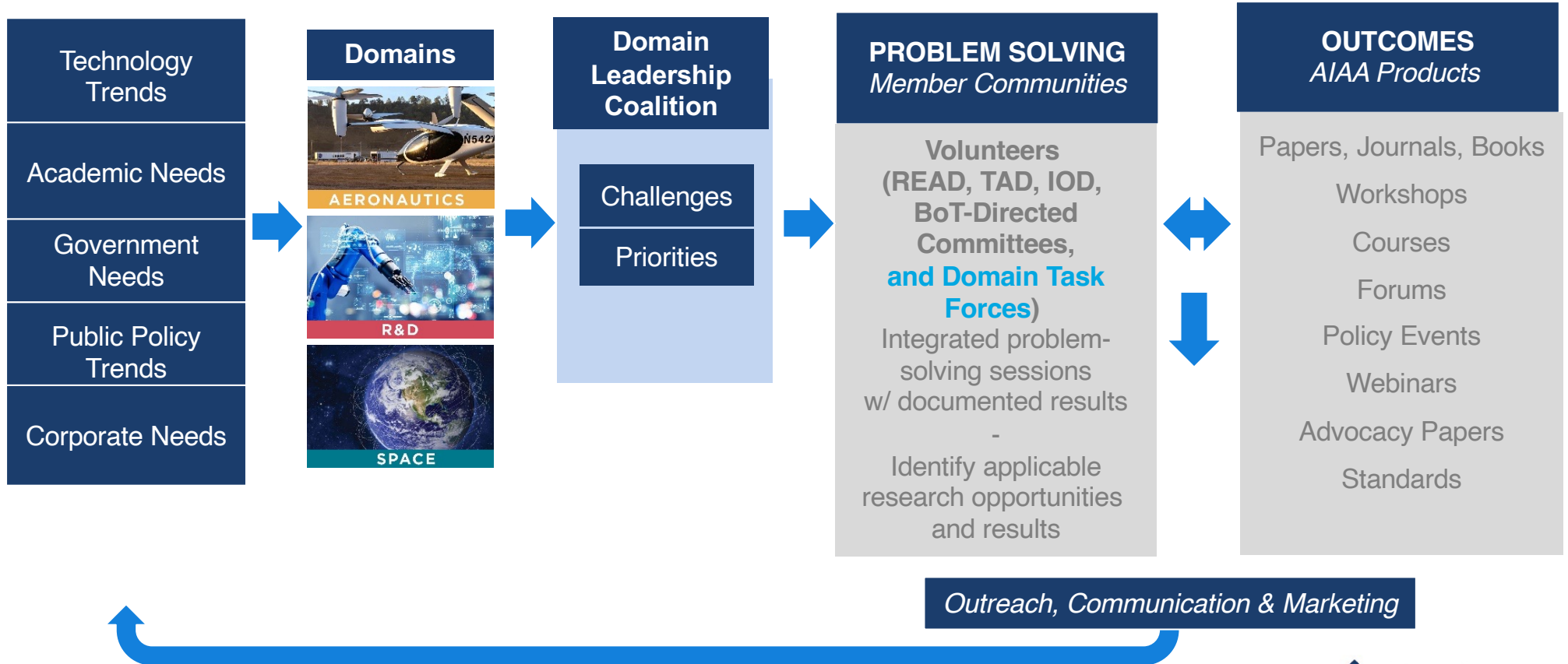
- 1: INCREASE ENGAGEMENT** and overall customer growth
- 2: IMPROVE VOLUNTEER & LEADERSHIP DEVELOPMENT** for AIAA's future
- 3: ALIGN VOLUNTEER ACTIVITIES** to the strategic plan in partnership with AIAA staff
- 4: ACHIEVE POSITIVE** net revenue
- 5: REFLECT SOCIETY'S DEMOGRAPHICS** in AIAA membership & leadership

Each Goal has 2-3 objectives

FY23 Milestones to Establish Strategic Plan

	<u>FY 23 Q1</u>	<u>FY 23 Q2</u>	<u>FY 23 Q3</u>	<u>FY 23 Q4</u>
Incr Engagement and Customer Growth	Membership Baseline Metrics Defined & Communicated	User Experience Needs Defined		Student Renewal @ 28% Prof Renewal @ 70%
Improve Volunteer and Leadership Development			Leader Expectations Documented Training Plan developed and initiated	Proposed updates to nominating and election process defined
Volunteer activities aligned and partnership with AIAA Staff		Adjacent Content Plan w/ all stakeholders	Revised Domain Roadmaps to Board Forum 2024 implementation plan to Board	Finalize comm plan w/ volunteer leaders
AIAA Net Positive Revenue	Continue monthly tracking of FY 23 revenue targets, w/ recovery plans where needed	Proposed revenue experiments and list of sunset items to Board		IT Roadmap and investments - Revised 5-year projections - Hire Director of Finance
Membership and leadership reflect society demographics	Establish VP Diversity, Workforce and Membership			5-year plan to the Board

Customer Needs Drive AIAA



Purposeful Outcomes / Results

Domain Key Topics



AERONAUTICS

System solutions applied by private industry, government programs to address commercial and policy customer needs

- Carbon Emissions and Sustainability
- Advanced Air Mobility
- Certification
- Hypersonics and Supersonics



R&D

Research performed by academic institutions, government laboratories, industry laboratories to be utilized by system solutions

- Transformative System Engineering
- Autonomy / Artificial Intelligence / Machine Learning
- Resilient and Assured Systems
- Advanced Manufacturing and Advanced Materials



SPACE

System solutions applied by private industry, government programs to address commercial and policy customer needs

- Space Traffic Mgmt/Space Traffic Coordination
- Space Sustainability
- Space Exploration
- Outpacing the Space Threat
- Competitive and Burgeoning Space Economy

PROBLEMS | ISSUES | PRIORITIES

Domain Outcomes: Task Forces

Aeronautics

- Carbon Emissions & Sustainability
 - Commercial Aviation is primary focus; impacts to climate change beyond carbon emissions
 - Developing AIAA Impact Plan—Aviation 2023
- Advanced Air Mobility
 - Needs identified: testing, certification, standards, skills
 - Recommendations to BoT—SciTech 2023, new phase launching
- Certification
 - Assessing current landscape; emphasis on certification for the emerging next generation of technology and operations
 - Launched—SciTech 2023

Aerospace R&D

- Transformative Systems Engineering
 - Focused on four subtasks: System of Systems Architecture Integration; Dynamic Mission Requirements; Budget Integration; Mission Metrics
 - Launched—September 2022, subtask workgroups launched and working
- Autonomy/Artificial Intelligence/Machine Learning
 - Focus on low TRL and enabling technologies
 - Formation in work; strong coordination with TAD and ISG

Space

- Space Traffic Management
 - Support policymakers with relevant technical perspectives and advocacy for effective US governance of space traffic management/coordination
 - Recommendations to Congress and publication of “Satellite Orbital Safety Best Practices Guide”
- Cislunar Ecosystem
 - Coordination of government, aerospace and adjacent industry, and supporting institutions to promote permanent, sustainable human presence off-world between LEO and the lunar surface
 - Task Force and work groups formed; initial definition/ taxonomy white paper at ASCENDxTexas

Upcoming Events



Aerospace Spotlight Awards Gala

18 May 2023
Washington, DC



12–16 June 2023
San Diego, California



23–25 October 2023
Las Vegas, Nevada

Volunteer Leader Expectations

- **Know and promote Institute mission, purpose, goals, policies, programs and services**
- **Be knowledgeable in the domain you are leading**
- **Review and follow a charter for your group / project that identifies:**
 - Your products and services and how they align with AIAA strategic goals and objectives
 - Target market
 - Important events, milestones, deadlines
- **Lead by Influence:**
 - Establish expectations – keep goal(s) in front of your team
 - Lead by example – roll up your sleeves when necessary to make progress
 - Accommodate other demands on your volunteer teams' time
 - Communicate regularly – solicit input and share status on progress
 - Get help when needed

Volunteer Leader Expectations

- **Ensure succession planning and recruit new, diverse members with broad representation**
- **Stay in Communication with your Committee/Community**
 - **Identify priorities and provide updates**
- **Document policies and practices**
- **Share best practices**
- **Represent the organization to the community**
- **Understand roles and responsibilities as defined in the governance**
- **Be a role model for the Code of Conduct**

Upcoming Leadership Development Opportunities

Spring

- Volunteer Leader Onboarding, May
- TC and IC Chair Orientation, May
- AIAA Town Hall, May

Summer

- Committee Leadership Development – June (on-site in coordination with AVIATION Forum)
- Section & Student Branch Leadership Development– July/August

Fall

- Section Chair Orientation – September
- Student Branch Chair Orientation – September
- AIAA Town Hall – September
- Committee Leadership Development – October (on-site in coordination with ASCEND)



AMERICAN INSTITUTE OF
AERONAUTICS AND ASTRONAUTICS

Shaping a Bold Future Together



**LEAD HUMANITY
BEYOND PLANET
EARTH**



**DEFINE NEXT
CENTURY OF
FLIGHT**



**CREATE THE
WORLD
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AIAA KEY ROLES

**Connect
People,
Ideas, and
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**Advance
Career
Journeys**

**Build
Technical
Agility and
Cohesion**

**Establish
United Front to
Solve Critical
Issues**

Governing Document Hierarchy

Institute Constitution

- Legal document, defines AIAA as an organization.
- Owned by the membership.

Institute Bylaws

- Defines the organizational structure, roles and responsibilities and outlines key processes.
- Allows for flexibility.
- Owned jointly by the Board of Trustees and the Council of Directors.

Operating Procedures

- Board, Council, READ, IOD and TAD.
- Details on day-to-day operations; how to get things done!
- Owned by each governance element.

Committee Charters

Committee Operating Procedures

- Each Section, TC, IOC and Board-directed Committee will have a “charter” that defines its purpose, make-up and high-level operation.
- As needed, committees may also have operating procedures to document the details of how they do business.

Upcoming Elected Positions for 2024

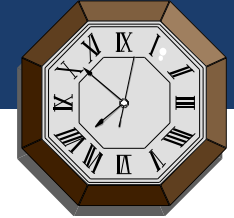
➤ Board of Trustees

- Members at Large – 3 open positions

➤ Council of Directors

- Speaker of the Council
- Region III Director
- Region VI Director
- Young Professional Group Director-Elect
- Aerospace Design and Structures Group Director
- Aerospace Sciences Group Director

Important Dates to Remember



- **January**
 - Council/READ/IOD/TAD Meetings
- **January 31**
 - Annual Report to Directors and AIAA
 - Committee Rosters to AIAA
- **April 15**
 - Associate Fellow Nominations
- **May**
 - Board/Council/READ/IOD/TAD Meetings
- **May 15**
 - Associate Fellow References
- **June 15**
 - Fellow/Honorary Fellow Nominations
- **July**
 - Nominations for AIAA Board of Trustees
- **July 15**
 - Fellow/Honorary Fellow References
- **August**
 - Council/READ/IOD/TAD Meetings
- **As Appropriate**
 - AIAA Award Recipient Recommendations
 - Senior Member Applications (anytime)

2024 Forum Co-location



- 28 July – 2 August 2024, Caesars Forum, Las Vegas
- Two co-located forums with common networking and integrated show floor
- Collaborative content across aviation and space domains as appropriate
- Emphasis on continuing AVIATION and ASCEND experiences
- 4,000+ attendees across both events

AIAA Engage

- AIAA Engage has for all committees and communities
 - Engage is single sign-on with your MyAIAA account.
- **Once logged in, check your “My Communities” link from the drop down**
 - You should see all committees you’re on the roster of, or if you’re an officer of that group.
- Engage is a great way to send out information and keep a record of discussions.
 - Discussion Posts will send an email to everyone in your Community.
 - Libraries contain records and important documents.
 - Check the library for important documents pertaining to your Community and use it to keep track of Command Media: TC Charters, Annual Report records, etc.

Working together...

- Support the Board's strategic vision
- Drive alignment across all committees/divisions
- Build networks
- Bring value for our members and their organizations
- Build events momentum – bring communities together with technical excellence and enthusiasm