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 MISSION:
To help aerospace professionals and their organizations succeed

- Nearly 30,000 Members
- 8,000+ Student Members
- 91 Countries
- 100+ Corporate Members

MEMBERSHIP PROFILE:
- Aerospace Sciences: 31%
- Aircraft & Atmospheric Systems: 11%
- Propulsion & Energy: 13%
- Aerospace Design & Structures: 15%
- Space & Missiles: 16%
- Business & Management: 4%
- Information Systems: 7%
- Systems Integration: 3%
- Aerospace Outreach: 2%
- International: 1%
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

AIAA KEY ROLES

Connect People, Ideas, and Resources
Advance Career Journeys
Build Technical Agility and Cohesion
Establish United Front to Solve Critical Issues

LEAD HUMANITY BEYOND PLANET EARTH
DEFINE NEXT CENTURY OF FLIGHT
CREATE THE WORLD WE DREAM

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 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 Financial Results
Month Ending 28 February 2023
FY23 Continuing Operations
($ in thousands)

FY23 Actual Net
FY23 Budgeted Net
FY22 Results

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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

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

- 5-year plan to the Board
Customer Needs Drive AIAA

Technology Trends
Academic Needs
Government Needs
Public Policy Trends
Corporate Needs

Domains

Domain Leadership Coalition
Challenges
Priorities

PROBLEM SOLVING
Member Communities
Volunteers
(READ, TAD, IOD, BoT-Directed Committees, and Domain Task Forces)
Integrated problem-solving sessions w/ documented results
- Identify applicable research opportunities and results

OUTCOMES
AIAA Products
Papers, Journals, Books
Workshops
Courses
Forums
Policy Events
Webinars
Advocacy Papers
Standards

Outreach, Communication & Marketing

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
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

AVIATION FORUM
12–16 June 2023
San Diego, California

ASCEND
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

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AIAA KEY ROLES

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Establish United Front to Solve Critical Issues
Governing Document Hierarchy

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

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

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.

Committee Charters
- Each Section, TC, IOC and Board-directed Committee will have a “charter” that defines its purpose, make-up and high-level operation.

Committee Operating Procedures
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