

## AIAA Committee (TAD and IOD) Charter

Version	Revision date	Revisions Made by
Ver1	October 1, 2025	Vishwanath Bulusu

### 1. Committee Name

*Aviation in Multimodal Transportation Integration and Outreach Committee*

### 2. Scope

The scope of the AiMT IOC is defined as:

*"Engaging the community and fostering the development of methodologies and technologies that integrate aviation effectively and seamlessly with other modes of transportation, enabling an ecosystem in which passengers and freight can transfer safely and efficiently among car, train, ferry, air taxi, and other modes with integrated end-to-end solutions."*

Aviation is experiencing a transformation. Novel aircraft technologies are poised to safely and efficiently transport people and goods in urban and rural settings, in addition to traditional aircraft operations. The vision is to *move beyond the gate-to-gate perspective towards a door-to-door, passenger-centric approach*, ensuring the ultimate goal of better people and package mobility is achieved. New cross-cutting research (for both AAM and legacy aviation) is needed to accomplish this multimodal perspective, including infrastructure, logistics, operations, data fabrics, technologies and automation, security, seamlessness, and resilience.

The committee will enable this by organizing technical sessions, webinars, courses, and special journal issues, as well as developing novel engagement and outreach events in collaboration between AIAA and other technical societies, as relevant to the mobility domain. The scope complements and augments other AIAA committees (e.g., ATM, ATS, EAT, TF) with access to the wider transportation ecosystem and consideration of non-traditional aerospace/aviation stakeholders. It also provides a new platform for international engagement and collaborations.

The committee has till date identified the following relevant topics:

- Airports as Mobility Hubs
- Energy Production and Dissemination Across Modes
- Integrating Aviation in Door-to-Door Solutions
- Passenger-Oriented End-to-End Models
- Policy, Regulations, and Economic Challenges to Integrating Air With Other Modes
- Resiliency Through Multimodal Solutions
- Seamlessness Across Modes
- Services for the Multimodal Technology and Autonomy Enablers of Multimodality
- Testbeds for Multi-Modal Research

### **3. Governance**

AIAA Integration and Outreach Committees (IOCs) are focused on the cross-disciplinary integration/programmatic and societal interface/outreach areas of interest to the Institute, and often span more than one technical discipline. Their activities are directed by the Integration and Outreach Division (IOD), which is led by the Chief, IOD, and assisted by the Staff Liaison. There are six operating groups under the IOD. The Aviation in Multimodal Transportation (AiMT) IOC will be part of the Integration Group (IG), which is led by the Director of IG.

### **4. Roles and Responsibilities**

#### ***4.a. Institute Activities***

The AiMT IOC will begin by supporting the AIAA Aviation Forum held each year, and extend to SciTech over two years. The conference technical activities will be handled by a Technical Discipline Chair and a Co-Chair, both selected from the committee or experienced past members of the committee. The committee will also conduct relevant workshops, as identified by the subcommittees, on topics relevant to the forum theme and pertaining to the relevant developments in the transportation ecosystem.

#### ***4.b. Functional activities***

Outreach is a major function of the IOC. The AiMT IOC will organize joint webinars, courses, and brainstorming sessions on cross-disciplinary topics in collaboration with societies like ITS-America, IEEE, and the Transportation Research Board. Other relevant academia, industry, and government joint engagement events will be organized as deemed relevant by the subcommittees. The precursor AAM Working Group started a joint special issue in AIAA, IEEE, and INFORMS journals. This joint issue approach towards journals will be continued by the IOC to facilitate engagement between aerospace and other mobility systems stakeholders.

### **5. Leadership**

The AiMT IOC has three officers: Chair, Vice Chair, and Secretary/Treasurer. The officers are elected by the IOC members and serve to ensure the efficient functioning and organization of the IOC's work.

**Chair:** The Chair serves a term of two years and is elected every other year at Aviation. The primary responsibilities of the Chair include overseeing the committee's activities, leadership, serving as the technical chair of the domain, and the principal liaison with other AIAA committees and outside organizations.

**Vice Chair:** The Vice Chair assists the Chair in their duties and stands in for the Chair when necessary and is tasked, among other things, with organizing and leading committee meetings, assigning abstracts, and creating technical sessions. The Vice Chair is automatically nominated to become the next Chair at the conclusion of the current Chair's term, provided they receive a majority approval by the committee. This provides continuity in leadership and ensures the ongoing stability of the committee's activities.



**Secretary/Treasurer:** The Secretary/Treasurer is responsible, among other things, for keeping records of the committee's activities and funds. Activities include minutes of meetings and correspondence, scheduling all meetings, maintaining the roster, and for submission of required updates to IOD. The Secretary is automatically nominated to become the next Vice Chair at the end of the current Vice Chair's term if approved by a majority of the Committee.

To be considered for an officer position, each candidate requires at least one nomination, either from another member or through self-nomination. All officer elections operate on a simple majority rule. If an officer's automatic nomination to a higher position is not approved by a majority of the Committee or if an officer withdraws their automatic nomination, an election will be held for that position, open to all Committee members. Officers may serve in their role for more than one term if re-elected.

Terms are effective 1 May, extending to 30 April two years later. There are also Chairs of each subcommittee that are appointed by the Chair under the guidance of the IOC members.

Elections will be held at the Aviation Forum committee meeting each year. Since the date varies every year, from 1 May to the election, officers will hold their position in an acting capacity.

## **6. Structure**

The officers of the IOC can establish subcommittees to execute a specific set of tasks. Members are then assigned (or self-volunteered) to specific subcommittees with at least one member acting as the lead. Each subcommittee must establish a mandate for its focus areas and expected activities. Each subcommittee lead is expected to provide updates on its activities during each IOC meeting.

The following subcommittees have been identified as of this writing of the charter:

- Conference Activities - Abstracts / Sessioning / Chairing (technical sessions)
- Publications: Document and share outcomes of IOC activities, e.g., articles for Aerospace America
- Workshops
- Membership Advancement
- Outreach (Panels, Talks, Courses, and Webinars)
- Research Themes: Identify areas for research and development and build IOC expertise
- Knowledge Dissemination: Consolidate and disperse insights from IOC members through whitepapers
- Student Engagement

The subcommittees can be formed, modified, and dissolved at the discretion of the IOC officers.

## **7. Membership**

AiMT IOC membership is open to any qualified professional active in the field of aviation and/or multimodal transportation. This encompasses individuals from academia, government, and industry, including subject matter experts, transportation planners, non-traditional mobility researchers, and mobility entrepreneurs. Members should be able to commit to meetings held



two times a year at various AIAA Forums (or in a hybrid format) in the U.S. and to actively participate in the work of the subcommittees. Participation or representation in two (2) of four (4) quarterly meetings is expected.

Committee membership is expected to be capped, ideally at 50 active, contributing members, to allow for effective communication, coordination, and dissemination of information.

'Contributing' is defined as active participation in at least two committee activities per year.

These activities include (not an exclusive list):

- Abstract and paper reviews (for all relevant events during a calendar year).
- Chairing at least one technical session
- Participation in 1 or more subcommittees.
- Relevant outreach activities such as webinars and workshops that promote collaboration and engagement between AIAA and other technical societies.

Liaison organization membership includes individual representation of a related organization involved in parallel programs, having similar or overlapping interests, and technical representation in the transportation ecosystem or associated fields. Liaison status is open to any and all approved domestic and international organizations.

## **8. Meetings**

The IOC meets in a hybrid format (in-person and virtual) at SCITECH and AVIATION and has quarterly virtual meetings. These meetings are for status updates of the committee and overall coordination. Additional committee or subcommittee meetings, such as to coordinate progress, reviews, and outreach event planning, are to be conducted as needed.

## **9. Committee Website**

TBD on AIAA Engage.

## **10. Charter Revision**

The committee is expected to review and revise the charter primarily when the chairperson changes every two years, with minor annual updates as deemed necessary.