

# AIAA Virtual Exhibit

## Satellite Educators Association Conference

**July 24, 2021**

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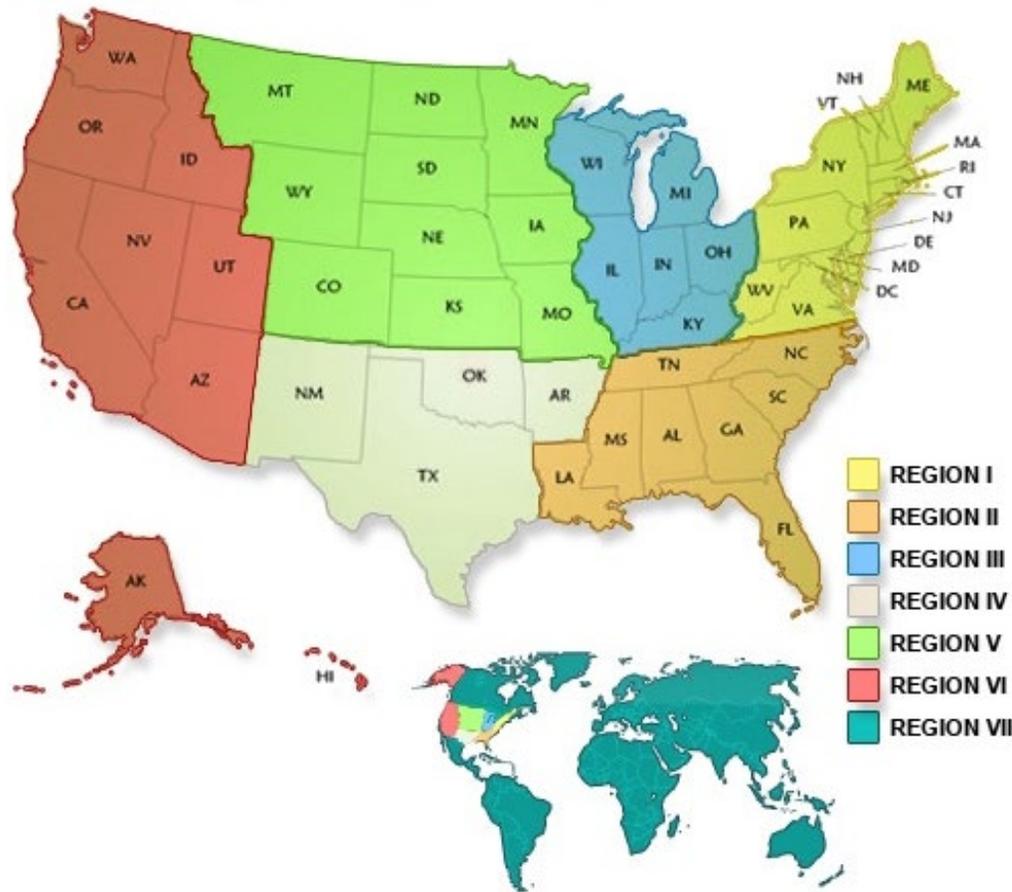
[aiaa-lalv.org/events](http://aiaa-lalv.org/events)

[aiaa.org/membership](http://aiaa.org/membership)

## About AIAA

- Vision: “Shaping the future of aerospace”
- 90+ Years of Aerospace Leadership
- ~30,000 Members
  - ❖ Across 88 Countries
  - ❖ Includes 95 Companies
- Headquartered in Reston, VA
  - ❖ <https://www.aiaa.org/>
  - ❖ (703) 264-7500

# AIAA Mission



President: **Basil Hassan**

Executive Director: **Daniel L. Dumbacher**

LA-LV Section Chair: **Dr. Jeff Puschell**

## Our Mission

AIAA exists to help aerospace professional and their organizations succeed

The objective of the LA-LV Section is to further the purposes and programs of the AIAA within its territory. The purposes of the AIAA are to advance the arts, sciences and technology of aeronautics, astronautics, and allied fields.

- 1) To engage communication between scientists and engineers with other professional groups.
- 2) To encourage original research, foster dissemination of new knowledge, further the professional development of those engaged in scientific and engineering activities.
- 3) To improve public understanding of the profession and its contributions, and recognize outstanding professional accomplishments.

## Why Join a Professional Society?

- Receive updates on the latest technologies/trends
  - ❖ Keep current in your field
  - ❖ Meet the experts
- Networking opportunities
  - ❖ Career advice
  - ❖ Employment guidance
- Opportunity to publish your work and make presentations
  - ❖ Peer reviewed papers
  - ❖ Get known and established in your field
- Looks great on your resume

## Membership Categories

- Professional
  - Young Professional
    - University Student to Early Career, > 35 years old
  - Student
    - University
    - High School
  - Educator (free)
  - Corporate
  - Associate
  - Retiree
- Your AIAA Customer Service representatives are here to help.
- Call toll free between 8:30 a.m. and 4:30 p.m. (ET) M-F at **800.639.2422**
- Email us anytime at **custserv@aiaa.org** with your questions or comments.
-  **Young (Early Career) Professional Discount**  
Professionals under age 35 a discounted rate on membership as they navigate the climb of their career. It is a **yearly rate of \$62.50 (50% of member dues.)**

# Membership Categories

## AIAA Member Categories



### Professional

You hold a science or engineering degree or equivalent professional qualifications.

[Join](#)

[Learn More](#)



### Educator

You are a K-12 teacher of math, science, engineering or technology.

[Join](#)

[Learn More](#)



### University Student

You're a full-time university student with a concentration in aerospace.

[Join](#)

[Learn More](#)



### High School Student

You're interested in science, technology, engineering, or mathematics, while having a passion for aerospace

[Join](#)

[Learn More](#)



### Corporate Member

You are a business that wants to successfully move forward in the aerospace industry.

[Brochure](#)

[Learn More](#)



### Associate

You work or are interested in the aerospace industry.

[Join](#)

[Learn More](#)



## Honors and Awards

## Student Membership

- 6,500 student members
- 160 active student branches
  - 12 located in foreign countries
- Student scholarships awarded
  - \$2,000 - \$2,500 – under graduate
  - \$5,000 - \$10,000 – graduate

# AIAA Membership Benefits



Find premiere aerospace technology, engineering, and science content and research across 100+ topics.



Support the next generation of aerospace professionals through innovative educational programs and recognition.

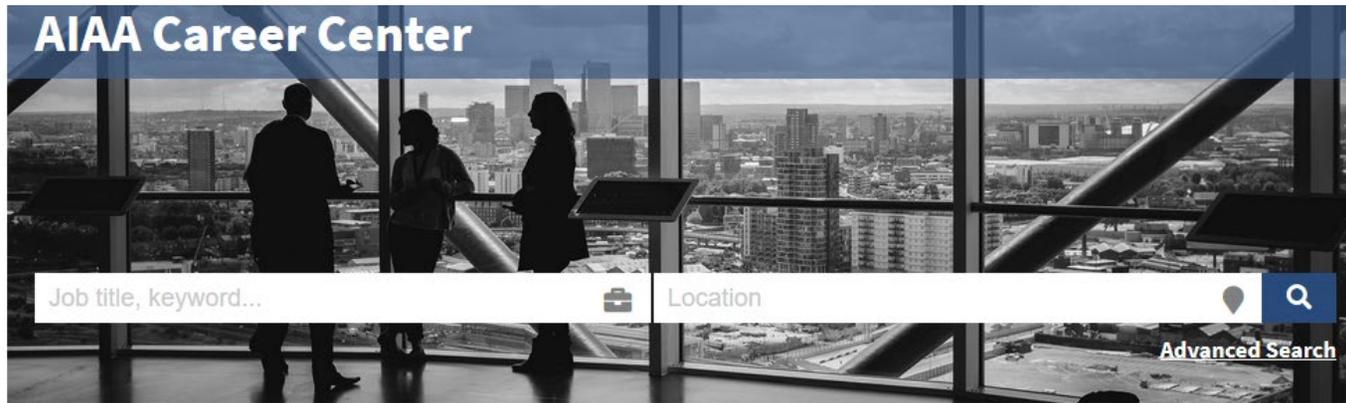


Connect with all of your AIAA colleagues online. Find your community and join the conversation.



Search a list of businesses and contacts in the astronautical and aeronautical industries.

# AIAA Career Center



 **338**  
 Job Listings

 **280**  
 Employers Hiring

**SIGN UP NOW**  
 or [Sign In](#) if already registered

## AIAA Career Center Account Benefits

 **Post Your Resume**

 **Apply for Jobs**

 **Get Job Alerts**

Get the most out of your [AIAA Membership](#)



### Career Coaching

Coming from a variety of professional backgrounds, our certified coaches have the experience, training, and expertise needed to help you achieve your career goals.



### Resume Writing

Whether you are mid-career professional, a senior executive, or just entering the job market, our experts are ready to critique your existing resume or help you craft a document that gets you noticed.



### Reference Checking

Get your references checked, confidentially and professionally so you can be confident your past employers are helping, not hurting, your candidacy.



### Career Learning Center

Video and written presentations designed to instruct and entertain, from creating powerful resumes to developing an effective personal network for career success.

# AIAA Events

## In This Section

### Events & Learning

Forums

Events

Courses & Workshops

AIAA Webinars

Online Education

Exhibit & Sponsorship

Podcasts

### Featured Events



#### 📅 2021 AIAA Aviation and Aeronautics Forum and Exposition (2021 AIAA AVIATION Forum)

2 AUGUST - 6 AUGUST 2021

Virtual

The AIAA AVIATION Forum is the only aviation event that covers the entire integrated spectrum of aviation business, research, development, and technology.



#### 📅 2021 AIAA Propulsion and Energy Forum and Exposition (AIAA Propulsion and Energy Forum)

9 AUGUST - 11 AUGUST 2021

Virtual Event

AIAA Propulsion and Energy Forum is the world's only conference event to showcase both aeronautics and space propulsion energy technologies in a single venue.

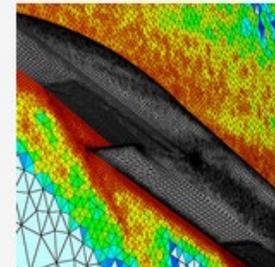
### 👤 COURSES & WORKSHOPS

### 🎥 ON DEMAND

#### Computational Aeroelasticity – Online Short Course (Started June 24, 2021)

24 JUNE - 15 JULY 2021

This 8-hour online short course covers concepts and terminology associated with aeroelasticity, including structural dynamics, unsteady aerodynamics, aeroservoelasticity, and recent developments such as computational reduced order models.



#### 🎥 AIAA Webinar: A Brief History of Modern Hypersonics, Or How Did We Get Here?

17 JUNE 2021 1200 - 1300 (EASTERN DAYLIGHT TIME)

Virtual



#### 🏛️ 🎥 📍 Space Policy Pod: Episode 21 (Sean O'Keefe)

26 MAY 2021

Episode 21 features former NASA administrator Sean O'Keefe.

# AIAA Events - ASCEND

ASCEND
November 2021  
Powered by AIAA

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**PARTNERS**

ASCEND attracts the leaders, innovators and influencers you need to know, and who need to know you.



**PROJECTS**

From one-off widgets to wholly integrated systems, big ideas bring us together.



**PROCESS**

It's the discipline in our DNA. It's how we solve problems, building confidence every step of the way.



**POLICIES**

We're active advocates for laws, legislation, and regulations that encourage innovation and eliminate barriers to progress.



**PASSION**

It's sustainable. It's renewable. It fuels us!

**ASCEND IS YOUR COMMUNITY**

## The space ecosystem

From classrooms through careers, ASCEND is assembling the most technically, professionally, and culturally diverse space workforce pipeline on the planet.

Join 3,000 engineers, scientists, policymakers, investors, civil and government leaders, national-security experts, researchers, and media at ASCEND—a new, immersive event designed to accelerate space commerce, exploration, and new discovery.



6,000

ATTENDEES

32

COUNTRIES

1,300

ORGANIZATIONS

125

UNIVERSITIES

# Southern California Aerospace

(Just some examples)



Electric & Hybrid  
Sustainable Aviation



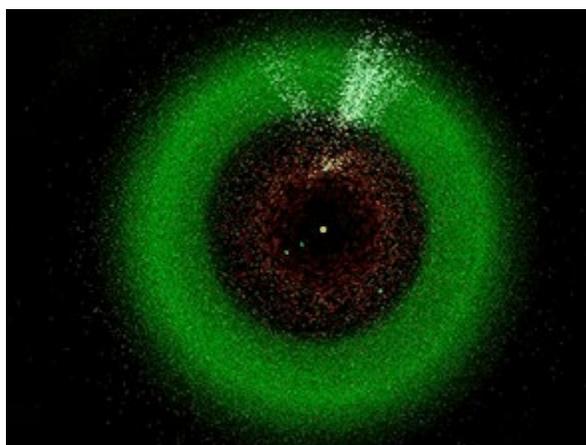
James Webb Space Telescope  
(Exoplanets, Astrophysics)



F/A-18 Hornet and Super Hornet  
E/A-18G Growler



Mars 2020 Perseverance  
Mars Helicopter



Planetary Defense  
Asteroid Exploration  
Space Debris Mitigation



Space Tourism  
Launch Vehicle



Rockets, Space Launch  
Space Exploration / Manufacturing  
Education



## Upcoming Online Webinars and Meetings

- \* **July 31, 2021, 9 AM PDT**: Design and Development of Lighter-than-Air systems: Making Balloons Float and Fly ! (Prof. Rajkumar S. Pant)
- \* **August 7, 2021, 10 AM PDT**: Countering Objections to Space Settlement by AI Globus
- \* **August 14, 2021, 10 AM PDT**: AIAA LA-LV Space Philosophy Gathering 2021 (led by Prof. Madhu Thangavelu) (AIAA Member)
- \* **August 21, 2021, 10 AM PDT**: AIAA LA-LV Celebrates the American History Month for Women, with Women Aerospace Professionals and a Featured Presentation “From Passenger to Pilot” (led by Ms. Marilee Wheaton (Fellow, AIAA))
- \* **August 28, 2021, 10 AM PDT**: (1) Deep Space Communications, by Dr. Jon Hamkins (JPL) (AIAA Senior Member) (2) Aerospace Robotics and Autonomy Research at Caltech (how to combine Machine Learning / Artificial Intelligence (ML/AI) with GNC), by Prof. Soon-Jo Chung (CalTech) (Associate Fellow, AIAA)
- \* **September 11, 2021, 10 AM PDT**: The SpaceX Starship is a very big deal, and Countering Misconceptions in Space Journalism, by Dr. Casey Handmer (CalTech PhD)
- \* **September 18, 2021, 9 AM PDT**: Space Technology & RADAR Applications, by Dr. Sudhir Kumar Chaturvedi (2) MDAO Lessons-Learned & Best Practices, by Mr. Jim Guglielmo (Associate Fellow, AIAA)

## Useful Links

### Event Calendar

[http://events.r20.constantcontact.com/calendar/monthview?eso=0010gqoU-\\_jblZTmCh7qkkm8w==&llr=p9tbt6cab](http://events.r20.constantcontact.com/calendar/monthview?eso=0010gqoU-_jblZTmCh7qkkm8w==&llr=p9tbt6cab)

### Resources

Join Mailing List: <https://lp.constantcontactpages.com/su/FnG0zoy> (8,000+ and growing)

Upcoming Events: <https://aiaa-lalv.org/events>

Join AIAA Membership: <https://aiaa.org/membership>

YouTube AIAA LA-LV Channels:

[https://www.youtube.com/channel/UCCJrx\\_vB7oxnU6T1yinEapg](https://www.youtube.com/channel/UCCJrx_vB7oxnU6T1yinEapg)

Podcasts AIAA LA-LV Channels:

<https://rss.com/podcasts/aiaa-losangeles-lasvegas/>

<https://open.spotify.com/show/4Uvslv07JHgBDUa3HkxmbO>

AIAA LA-LV Video: [aiaa-lalv.org/video](http://aiaa-lalv.org/video)

AIAA LA-LV Blogs: [aiaa-lalv.org/blogs](http://aiaa-lalv.org/blogs)

AIAA LA-LV Newsletters: [aiaa-lalv.org/download](http://aiaa-lalv.org/download)

AIAA LA-LV @ Engage: [engage.aiaa.org/losangeles-lasvegas](http://engage.aiaa.org/losangeles-lasvegas)

### Social Media

Facebook: [www.facebook.com/AIAALALVSection/](http://www.facebook.com/AIAALALVSection/)

Linkedin: [www.linkedin.com/in/aiaa-lalv/](http://www.linkedin.com/in/aiaa-lalv/) (13,000+ connections)

Twitter: [twitter.com/aiaa\\_lalv](http://twitter.com/aiaa_lalv)

Instagram: [https://www.instagram.com/aiaa\\_lalv/](https://www.instagram.com/aiaa_lalv/)

Pinterest: [www.pinterest.com/aiaalalv/](http://www.pinterest.com/aiaalalv/)