Vertical Flight Society
Southern California Chapter

CALL FOR PAPERS OR PRESENTATIONS

Rotorcraft for Public Good Specialist Meeting

Long Beach Marriot, February 23-25, 2027

The **Rotorcraft for Public Service Specialists' Meeting** will bring together industry, government, and academic experts to discuss emerging technical challenges, operational needs, and innovative solutions for vertical takeoff and landing (VTOL) aircraft supporting public service missions. These missions include emergency response, disaster relief, medical evacuation, infrastructure support, and environmental monitoring.

Sponsored by the **VFS Southern California Chapter**, the meeting will be held as part of the **2027 VFS Transformative Vertical Flight Conference**, which includes the **14th Annual eVTOL Symposium,** taking place **February 23–25, 2027, in Long Beach, California**. *The conference is an in-person event.*

Technical Papers or Presentations are invited that advance technical understanding, analytical tools, and enable new technologies to improve the effectiveness of rotorcraft in public service roles. The meeting provides a forum for participants to discuss vehicle-level innovations, certification progress, operational challenges, and the evolving role of rotorcraft in serving societal needs, along with the airspace management system, supporting data, and functions required to enable safe, dense, and coordinated aerial operations. This conference emphasizes technical rigor and engineering innovation, with a focus on how modeling and simulation, flight control, autonomy, unmanned technologies, and many more technical disciplines, can be leveraged to improve the effectiveness, safety, affordability, and scalability of rotorcraft operations in public-serving roles.

Topics: Papers or Presentations are invited in all areas related to rotorcraft/VTOL for public service missions, **including both manned and unmanned flight (UAS)**. Topics of interest include;

- Rotorcraft and VTOL Vehicle Design for Public Service Missions (police, fire, search and rescue, surveillance, disaster relief)
- Aeromechanics and Environmental Interaction (downwash, DVE, urban effects)
- Flight Dynamics, Stability, and Control (manned, unmanned and optionally piloted)
- Fault-Tolerant and High-Reliability Flight Control Systems
- Autonomy, AI/ML, and Human–Machine Teaming
- GNSS-Denied Navigation and Perception (vision, LiDAR, SLAM/VIO)
- Sensing, Payload Integration, and Real-Time Mission Systems
- Operations in Degraded and Extreme Environments
- Airspace management system and layered conflict management for safe and dense manned and unmanned operations

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- Supporting data and airspace management functions needed for nighttime and DVE operations
- Intelligent airspace management for effective and coordinated aerial operations
- Simulation, Modeling, and Digital Engineering (MBSE, digital twins)
- Testing, Validation, and Flight Demonstration
- Certification, Safety, and Airspace Integration of novel technologies

Abstract Submittal: Please submit abstracts by **October 30th 2026**
o **events@socal.vtol.org** and provide the following information.

- Present the status of the background data to be used and summary of important conclusions.
- Sample figures and illustrations can be used and are encouraged.
- Be approximately 1,000 words and submitted in PDF or Word format.
- Include paper title, author name, organization and email contact information.
- Specify whether it will be a **technical paper or a presentation-only**.

Deadlines:

- Final written technical papers will be due by **February 8, 2027.**
- All technical presentations will be due **February 19, 2027.**

Author Commitment Following Abstract Acceptance: Acceptance of an abstract constitutes a professional commitment to:

- Prepare and submit the final technical paper or presentation by the established deadlines;
- Register at discounted speaker rates and pay to attend the meeting; and
- Present the topic at the conference.
- If an author is unable to deliver the presentation, it is the author's responsibility to arrange for a qualified substitute presenter.

General Chair: Dr. Michael Jones, Systems Technology, Inc. president@socal.vtol.org