Welcome

to the

48th AIAA Dayton-Cincinnati Aerospace Sciences Symposium (DCASS)

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The AIAA Dayton-Cincinnati Aerospace Sciences Symposium has provided a unique venue for technical communications of our regional aerospace community for 48 years. The symposium showcases cutting-edge scientific and engineering research and innovations within a one-day event through technical presentations across multiple aspects of aerospace science and technology.

More than sixty technical presentations are delivered in a day-long symposium program. Our invited keynote speaker for 2023 is Ms. Susan Gorton. Ms. Gorton has been with NASA for 24 years and has been the NASA Revolutionary Vertical Lift Technology Project lead for the past 16 years. Prior to joining NASA, she started her career as a researcher in the Army’s Aeroflightdynamics Directorate, now known as the Technology Development Directorate, for 15 years. Ms. Gorton is playing a lead role in development of technologies, validating tools, and concepts to improve vertical lift vehicles that are conducted at NASA Ames, Armstrong, Glenn and Langley. Ms. Gorton will be presenting a keynote address discussing the NASA aeronautics vision for transforming aviation.

To better serve the local community to promote Science, Technology, Engineering, and Mathematics (STEM) and prepare young engineering leaders for future aerospace, this year a High School Students Invited Talk Section is created. This session will allow involvement of talented high school students around Dayton-Cincinnati area and present their science and engineering research work related to aerospace science and technology.

With the reduced impact of COVID-19, the organizing committee decided to continue the fully in-person symposium, which offers more convenient information exchange and connection opportunities. Mask usage is optional during the conference. Attendees are requested to respect the decisions of other participants and continue to take any precautions as necessary.

The symposium has been organized by a group of dedicated volunteers who team throughout the year to make this meeting a success. This meeting would not be possible without their dedicated effort. We thank the local leaders and communities supporting DCASS as general co-chairs and executive committee members, and our co-sponsoring professional societies listed within this program. This meeting is also made possible by our corporate and educational sponsors shown on the back of this program. We thank them for their generous support.

Finally, we encourage all attendees to submit their vote for the art-in-science contest. The best presentations and art-in-science award winners will be recognized at the annual Dayton-Cincinnati Section Awards Program.

We hope you enjoy today's symposium, and we look forward to seeing you again next year!

Zifeng Yang and Anil Patnaik

2023 DCASS Executive Co-Chairs