



GATEWAYS TO
BLUESKIES

**ADVANCING AVIATION
FOR NATURAL DISASTERS
COMPETITION**

May 30-31, 2024
NASA's Ames Research Center
Mountain View, CA



SPONSOR WELCOME MESSAGE



Koushik Datta

Ames Research Center (ARC)
Project Manager, University
Innovation Project

Congratulations, Blue Skies competitors, and a warm welcome to sunny California! We're excited to have you here at NASA Ames Research Center for the third annual Blue Skies Forum. Did you know NASA Ames boasts the world's largest wind tunnel, the fastest NASA supercomputers, the agency's only arc jet facility for re-entry testing, and the world's largest motion-based flight simulator? There's so much to see here, and I hope you'll soak it all in. As we kick off this two-day competition, we're eager to learn more about your ideas for "Advancing Aviation for Natural Disasters." You should feel proud of the amazing work you've accomplished, particularly being one of only eight teams to be selected as finalists. With natural disasters increasingly exacerbated by climate change, there's a growing need for awareness and action. NASA is actively channeling resources to mitigate and address their impacts. The technologies you've proposed hold great promise as we seek innovative aviation-related solutions. In the meantime, you're gaining invaluable experience as you focus on researching potential solutions to today's most pressing challenges. This forum is an opportunity to showcase your talents and nurture your interests within the aerospace industry. Make the most of it and enjoy the experience!

FORUM GUIDELINES

Participation: Please review the Forum Agenda and be on time for all sessions. Participation in all Gateways to Blue Skies Competition Forum events is mandatory.

Personal Responsibility: You are responsible for your actions, and accountable to your school policies. During your free time, please be respectful of the hotel property and guests (i.e., no loud parties in your rooms). Any complaints may result in disqualification of the team and immediate dismissal from the competition. While there is plenty of opportunity to have fun at the Forum, we must be representative of NASA and NIA while attending the Forum.

Group/Team Photos: We will be taking team photos and a group photo following lunch on Thursday, May 30. Please dress accordingly. At the Awards Dinner on May 31, we will take another group photo. Plan to wear your Blue Skies T-Shirt.

Emergencies: For medical emergencies, call 911.

- Nearest Hospital: El Camino Hospital at 2500 Grant Road, Mountain View, CA 94040
- Nearest Urgent Care: Urgent Care Mountain View at 1150 W. El Camino Real, Mountain View, CA 94040

NIA PROGRAM TEAM



Janice Kurbjun Miller
Program Lead
757-325-6807



Amy McCluskey
Program Coordinator
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Stacy Dees
Program Manager
757-218-8313



Shelley Spears
Program Director
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AGENDA LEGEND

Events restricted to Judges & Staff are **GREEN**.

Events restricted to Paid Registrants (teams, judges, staff) are **BLUE**.

Wednesday, May 29, 2024

6:30 – 8:30 PM **Blue Skies Forum Team Check-in**
The Ameswell Hotel
800 Moffett Blvd., Mountain View, CA

Thursday, May 30, 2024

NASA's Ames Research Center & The Ameswell Hotel

8:00 – 8:50 AM **Breakfast**
NASA Ames Conference Center, Showroom
Building 3, NASA Ames

8:30 – 8:40 AM **On-Site AV Orientation**
NASA Ames Conference Center, Ballroom

8:15 – 8:45 AM **Judges Meet & Greet**
NASA Ames Conference Center
North Wing Room

9:00 – 9:15 AM **Welcome and Introductions**
NASA Ames Conference Center, Ballroom

9:15 – 9:45 AM **NASA Presentation**
Carol Carroll, ARMD Deputy Assoc. Admin.

9:50 – 10:35 AM **California State Polytechnic University, Pomona**
Aero-Quake Emergency Response Network
Advisor: Mark Gonda

10:35 – 10:50 AM **Morning Coffee Break**
NASA Ames Conference Center, Ante Room

10:50 – 11:35 AM **Columbia University**
AVATARS: Aerial Vehicles for Avalanche Terrain Assessment and Reporting Systems
Advisors: Dr. Mike Massimino, Nicholas Frearson

11:45 – 12:30 PM **Boston University**
Rapid Evaluation, Coordination, Observation, Verification & Environmental Reporting (RECOVER)
Advisor: Dr. Anthony Linn

12:30 – 1:30 PM **Lunch**
NASA Ames Conference Center, Showroom

1:30 – 2:00 PM **Judges Meeting/Scoring**
NASA Ames Conference Center
North Wing Room

1:30 – 2:00 PM **Team Photos**

2:00 – 2:15 PM **Group Photo**

2:20 – 3:05 PM **Bowie State University**
Enhancing Earthquake Disaster Relief with Artificial Intelligence and Machine Learning
Advisor: Dr. Haydar Teymourlouei

Thursday, May 30, 2024 (cont'd)

3:05 – 3:20 PM **Afternoon Break**
NASA Ames Conference Center, Ante Room

3:20 – 4:05 PM **University of Texas at Austin**
Data Integrated UAV for Wildfire Management
Advisor: Dr. Christian Claudel

4:15 – 5:30 PM **Poster Session – Day 1 Teams**
NASA Ames Conference Center, Fireside Room

6:00 – 7:30 PM **Outdoor Networking Reception & Light Dinner**
The Ameswell Hotel
Airstream Outdoor Event Space

Friday, May 31, 2024

NASA's Ames Research Center & Ristorante don Giovanni

7:45 – 8:45 AM **Breakfast**
NASA Ames Conference Center, Showroom
Building 3, NASA Ames

8:45 – 9:30 AM **Cerritos College**
F.I.R.E. (Fire Intervention Retardant Expeller)
Advisor: Janet McLarty-Schroeder

9:40 – 10:25 AM **North Carolina State University**
Reconnaissance and Emergency Aircraft for Critical Hurricane Relief (REACHR)
Advisor: Dr. Felix Ewere

10:25 – 10:40 AM **Morning Coffee Break**
NASA Ames Conference Center, Ante Room

10:40 – 11:25 AM **Boston University**
Deployable Unmanned Aerial System To Detect and Map Volcanic Ash Clouds
Advisor: James Geiger

11:35 – 12:20 PM **Poster Session – Day 2 Teams**
NASA Ames Conference Center, Fireside Room

12:20 – 1:20 PM **Lunch**
NASA Ames Conference Center, Showroom

1:30 – 4:30 PM **Teams Tour NASA Ames**

NLT 1:45 PM **Judges Deliver Finalized Scores**

2:00 – 4:00 PM **Judges' Deliberation**
NASA Ames Conference Center
North Wing Room

Awards Dinner, Ristorante don Giovanni

6:45 – 7:45 PM **Awards Dinner**
Ristorante don Giovanni
235 Castro Street, Mountain View

7:45 – 8:15 PM **Awards Ceremony & Group Photo**

LIVESTREAM INFORMATION

A Livestream of the presentations can be viewed at: <https://vimeo.com/showcase/blueskies>



STEVEN HOLZ

Blue Skies Co-Chair & Sponsor
NASA Langley Research Center



MARCUS JOHNSON

Blue Skies Co-Chair
NASA Ames Research Center



STARR GINN

NASA Armstrong Flight
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Research Center



TRAVIS POTTER

FEMA Region 4



CHARLES SHEEHE

NASA Glenn Research Center



JAY STALNACKER

XPRIZE Wildfire



Help Blue Skies improve by
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The Gateways to Blue Skies Competition is sponsored by NASA's
Aeronautics Research Mission Directorate's University Innovation
Project and is managed by the National Institute of Aerospace.

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<https://blueskies.nianet.org>



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program book.

JUDGING PANEL