

AIAA-ATS 2022 Program (draft as of May 19)

CUB-UMC, Boulder, Colorado, Sept. 28, 2022

Motto: Colorado Aerospace Engineering Now And In Next 5+ Years

Objective: Discuss current technologies and brainstorm on future innovative aerospace science and technology projects

8:00 AM Morning Sessions. Glenn Miller Ballroom. Opening: Alexandra Dukes, Chair AIAA-RMS

8:05 AM **7 Lt. Gov. Primavera: Welcome and Introduction for Congressman.**

Brief Remarks: Congressman Joe Neguse (video)

Brief Remarks: Senator John Hickenlooper (web, live)

8:15 AM	Future of Aerospace Science and Engineering in CO. The place of CO in the Nation and in the World. Colorado Space Branding.	Current state of the art. How does the State support aerospace industry, small and large companies. How does the State prepare for the future.	Colorado Aerospace Manager (OEDIT). Placeholder: Michelle Hadwiger (OEDIT). Vicky Lea (Metro Denver); Chris Muldrow (CUB-AES); Erin Miller (Space ISAC)	What has the Colorado State Government done so far to strengthen aerospace engineering activities in CO: e.g. Advanced Industries support for start-ups; attracting businesses; success stories.
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9:00 AM	Current pains, and limitations. How to collaborate with Agencies and each other. STEM/STEAM challenges. Plans for the future.	Discuss needs to be met by Academia, Industry, Government. Goal: Recommendations to the 3 GIA constituents to improve collaboration in aerospace engineering to strengthen CO aerospace activities	Brian Argrow (CUB-AES, lead), Scott Gustafson (LMCO); Paul Deaderick (The Aerospace Corporation), Art Maples (NASA)	What can Government and Industry do to help academia? What can Academia and Government do better to help industry? How can academia and industry work closer with government? Can the Aerospace Minor fill industry needs?
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9:45 AM Coffee Break

10:00 AM	Panel on future technology and science developments.	Aerospace engineering and science in the next 5+ years	Mike Gazarik (Ball, lead); Al Tadros (Redwire); Joe Landon (LMCO); Allie Anderson (CUB-AES); Omar Mahmoud (Redwire); Krystal Scordo (Astroscale); John Andrews (SWRI).	Brainstorm advanced projects, opportunities. Brainstorm new ideas.
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10:45 AM	Future Aerospace Workforce on Earth and in Space.	STEAM and education challenges. Aerospace Minor programs. Aerospace careers in the future.	Trip Carter (LMCO, lead); Chris Deel (ULA), Mike Richey (Boeing), Amy Horan (Sierra Space); Eric Felt (USSF)	Review John McMaster's skills criteria.
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11:30 AM Science and Technology Keynote

JWST Technology and Anticipated Science

Erin Wolf (BALL)

12:15 PM Lunch

12:30 PM Brief Remarks

Senator Hickenlooper (web)? Gov. Polis?, Chancellor?

12:35 PM	Lunch Keynote Panel: Our Vision for Aerospace Engineering in Colorado	Robert Lightfoot, Executive VP of Lockheed Martin Space.	Panel with David Kaufman (BALL), Heather Bulk (SAS), Tom Vice (Sierra Space), Tory Bruno (ULA)	
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2:00-5:00 PM Afternoon Technical Sessions (Topics are tentative. Times and rooms may change)

	Glenn Miller Ballroom Capacity 400	UMC 235 Capacity 300	UMC 382-386 Capacity 120	UMC 425 Capacity 40	UMC247 Capacity 50	UMC 415-417 Capacity 80
2:00 PM	Small and Midsize Companies CEO Panel (organized by CSBR)	Space Infrastructure Projects. Fred Slane (Space Infrastructure Foundation); Scott Asbury (Sierra Space); Adam Biskner (Redwire); Daniel Faber (Orbit Fab).	Cybersecurity. John Walsh (Bedrock Systems); Kristian Hahn (SEAKR); Angela Robinson (NIST); Holly Rollins (Booz Allen Hamilton);	Liabilities and Indemnification for Space Activities Panel. Karri Palmetier, (Palmetier Law); Randy Repcheck (FAA), Skip Smith (Sherman & Howard); Laura Cummings (Astroscale); Matthew Feltner (Command Tek)	Research Presentations (Four (4) selected from submitted Abstracts)	Poster Sessions. Maximum 20 posters. Share and discuss current academic and industry in-house research. Meet students.
3:00 PM	Space Traffic Management Policy, Walter Scott (MAXAR)	Advanced Space Technologies. Scott Erwin (USSF); Jay McMahon (CUB, DART mission); (? BlueOrigin)	In-Space Manufacturing Panel. Slade Gardner (Big Metal Additive); Bradley Hayes (CUB); Kari Abromitis (Redwire); Dave Coleman (PickNik Robotics)	The Future of Systems Engineering Panel. Casey Medina (StudioSE.Design); ? (INCOSE);	Research Presentations (Four (4) selected from submitted Abstracts)	
4:00 PM	Space Sustainability, Space Tugs Panel (Astroscale (lead), Momentus)	Space Missions, Artemis. (Corey Brooker, LMCO); Daniel Scheeres (CUB-AES); John Reed (ULA)	Supersonics and Hypersonics Panel. Iain Boyd (CUB-AES), Ben Murphy (Boom Supersonic)	ISRU Panel. Angel Abbud-Madrid (lead, Mines)	Research Presentations (Four (4) selected from submitted Abstracts)	

5:00 PM Recess or Adjournment/Conclusions

5:00 PM	Conclusions on CO Aerospace R&D Future	Panel leader conclusions. Where we are; where we go. Recommended actions.	Alexandra Dukes, Chair AIAA-RMS, Panel leaders	Panelists submit a brief 100 word recommendation of achievements (to be published by AIAA-RMS web site). Purpose of attendance was fulfilled? Did conference galvanize creative ideas and/or collaborations?
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Possible alternative: at Ann and H.J. Smead Aerospace Engineering Sciences new building, Main Hallway, 3775 Discovery Drive, Boulder, CO 80303

5:30 PM	Conclusions on CO Aerospace R&D Future	Panel leader conclusions. Where we are; where we go. Recommended actions.	Have a CO government leader, or CUB leader send off attendees? Alex for AIAA-RMS	
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All Day	Exhibitor Booths	Aspen Room	20 booths available	
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