

NASA FLIGHT OPPORTUNITIES





Welcome to the Community of Practice Webinar Series!

First, a bit of housekeeping...

- · Please mute your microphone and turn off your camera
- · Today's session will be recorded
- · Recordings for this and all future sessions will be posted on the Flight Opportunities website
- Please engage!
 - Use the chat throughout the session to ask questions and offer reflections
 - · And raise your hand if you'd like to contribute to the discussion!

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Welcome to the Community of Practice Webinar Series!

Flight Opportunities hopes these webinars will enable researchers, program staff, and flight providers to connect informally and share information

- Designed to distill and share the most important lessons learned to:
 - · Increase the impact of suborbital flight tests
 - Transfer best practices
 - Optimize the experience of current and prospective program participants
- Part of a broad effort to capture, organize, and communicate lessons learned by suborbital researchers
- An opportunity to hear from subject matter experts on best practices for preparing for suborbital flight tests

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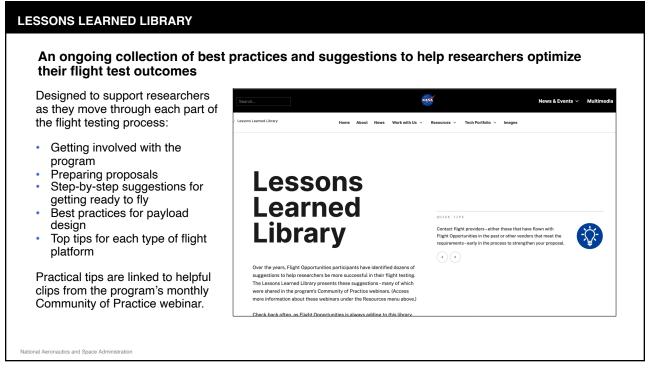
Join us for future Community of Practice webinars!

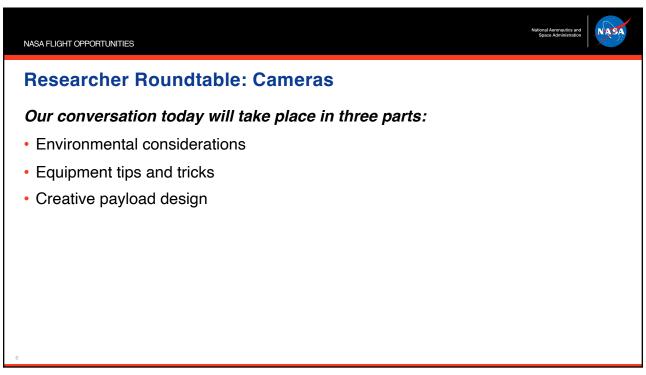
Subscribe to our newsletter for updates on future webinars!

https://www.nasa.gov/directorates/spacetech/flightopportunities/newsletter

Future webinars

- Webinars are held 1st Wednesday of each month at 10 a.m. PT
- Topics will be announced in the Flight Opportunities newsletter and website
- Session recordings will be posted on the Flight Opportunities website
- Let us know session topics you would like to see covered





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Environmental Considerations

- Considering diverse flight environments and integration with a variety of vehicles
- Tackling unexpected environmental challenges that affect cameras in flight testing

Lightning talks:

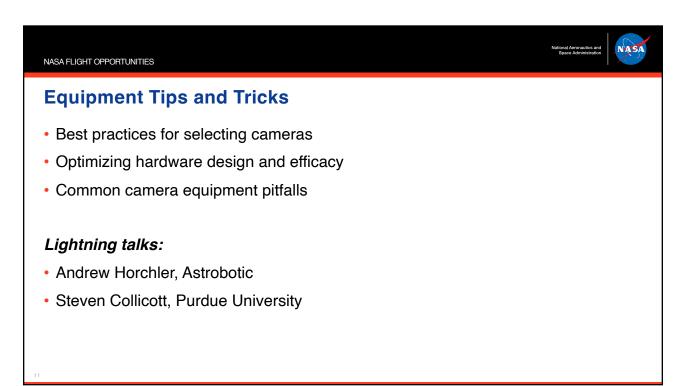
- · Kevin Crosby, Carthage College
- · Josh Baumann, Rhea Space Activity





Kevin Crosby, Carthage College

04:35:417



Creative Payload Design Using cameras in unique ways Developing new camera-based technologies Custom solutions to make comprehensive observations Lightning talks: Vee Reumers, imec Jason Achilles Mezilis, Zandef Deksit

mec

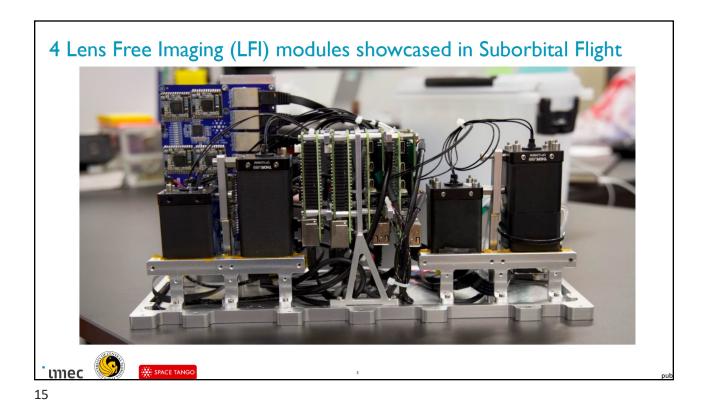
FLIGHT OPPORTUNITIES COMMUNITY OF PRACTICE WEBINAR APRIL 3, 2024

VEERLE REUMERS PHD, R&D MANAGER

PUBLIC

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IMEC'S LENS FREE IMAGING TECHNOLOGY VALIDATED IN PARABOLIC & SUBORBITAL FLIGHT Parabolic Flight -25 sec. of µg per parabola 31,000 feet -24,000 feet -1,.8g 1,8g GRANT NR: 80NSSC20K0110 GRANT NR: 80NSSC21K0338



Lens-free imaging of a variety of samples

MM FIELD OFVIEW WITH

MM RESOLUTION

TIMELAPSE OF MICROFLUIDIC SAMPLE

In flight movie

In flight image



