



## 2023 AAS/AIAA Astrodynamics Specialist Conference



Big Sky, MT, Aug 13-17, 2023

### Guidance, Navigation and Control III

Room: Gallatin, Tuesday, August 15, 1:30 PM : 3:10 PM

Session Chair: Mar Vaquero (JPL)

1:30 PM

AAS-332 : From Freefall to Controlled Descent: Dragonfly's Transition to Powered Flight

**Connor Boss** (Johns Hopkins University Applied Physics Lab), Lev Rodovskiy (JHU/APL)

1:50 PM

AAS-196 : Overview and Control Performance of the Dragonfly Flight Test Platform

**Rebecca Foust** (Johns Hopkins University Applied Physics Laboratory), Jinho Kim (Johns Hopkins Applied Physics Laboratory), Lev Rodovskiy (JHU/APL), John Samscock (JHU/APL), Jason Stipes (JHU/APL), Connor Boss (Johns Hopkins University Applied Physics Lab), David Edell (JHU/APL), Ben Schilling (Johns Hopkins Applied Physics Laboratory), Erin Sutton (Johns Hopkins University Applied Physics Laboratory), Glenn Creamer (JHU/APL), Timothy McGee (Point Mass Technologies LLC), Stephen Jenkins (Johns Hopkins University Applied Physics Lab), Benjamin Villac (Johns Hopkins University Applied Physics Laboratory)

2:10 PM

AAS-139 : Initial Flight Test Performance of the Dragonfly Navigation Filter

**Ben Schilling** (Johns Hopkins Applied Physics Laboratory), Rebecca Foust (Johns Hopkins University Applied Physics Laboratory), Jinho Kim (Johns Hopkins Applied Physics Laboratory), Timothy McGee (Point Mass Technologies LLC), Connor Boss (Johns Hopkins University Applied Physics Lab)

2:30 PM

AAS-175 : Sequential Filtering in the Presence of Uniform Measurement Errors

**James McCabe** (NASA Johnson Space Center)

2:50 PM

AAS-260 : A Delicate Balance of Torque and Thrust: How Lunar FLashlight Used Rotating Maneuvers to Make One Thruster do the Work of Four

**Tim McElrath** (JPL/Caltech), Steven Collins (NASA Jet Propulsion Laboratory), Kevin Lo (NASA Jet Propulsion Laboratory), Celeste Smith (JPL/Caltech), Nathan Cheek (JPL/Caltech), Michael Hauge (JPL/Caltech)