

# SATCON1

## Workshop Agenda

### June 29 and June 30, 2020

Zoom link opens each day at 7:00 AM PDT / 10:00 AM EDT / 14:00 UT / 4:00 PM CEST

## Monday, June 29

All talk times below are PDT = UT-7

### Welcome, Introduction, and Ground Rules

- 7:20-7:30 Connie Walker (NOIRLab) & Jeff Hall (Lowell Observatory)

### Report of the OBSERVATIONS Working Group

7:30-9:30 AM PDT / 10:30 AM-12:30 PM EDT / 14:30-16:30 UT / 4:30-6:30 PM CEST

Chair: Lori Allen (NOIRLab)

- 7:30-7:45 Lori Allen (NOIRLab), *Summary of Observations Working Group*
- 7:45-8:05 Jeremy Tregloan-Reed (Universidad de Antofagasta), *Optical to NIR magnitude measurements of the Starlink LEO satellites & effectiveness of the Darksat darkening treatment*
- 8:05-8:25 Harry Krantz (Steward Observatory), *Autonomous Observations of Starlink Satellites with the Pomenis Observatory*
- 8:25-8:45 Meredith Rawls (University of Washington/Rubin Observatory), *Comparing SpaceX's DarkSat to brighter Starlink siblings in g-band with DECam*
- 8:45-9:30 Discussion

## Break

### Report of the SIMULATIONS Working Group

10:00 AM-12:00 PM PDT / 1:00-3:00 PM EDT / 17:00-19:00 UT / 7:00 PM-9:00 PM CEST

Chair: Pat Seitzer (University of Michigan)

- 10:00-10:10 Pat Seitzer (University of Michigan), *Summary of Simulations Working Group*
- 10:10-10:30 Jonathan McDowell (Center for Astrophysics), *A Sky Full of Satellites: Simulating the Visibility of MegaConstellations*
- 10:30-11:00 Cees Bassa (ASTRON) / David Galadi (SEA) / Olivier Hainaut (ESO), *Simulations of the Number of Satellite Trails and the Impact on Visible/Near IR Observations*
- 11:00-11:20 Moriba Jah / Daniel Kucharski (University of Texas), *Simulating the Brightness of Satellites with BRDFs*
- 11:20-11:25 Pat Seitzer (University of Michigan), *Summary and Recommendations for Future Work*
- 11:25-Noon Discussion

Tuesday, June 30

All talk times below are PDT = UT-7

**Report of the MITIGATION Working Group**

**7:30-9:30 AM PDT / 10:30 AM-12:30 PM EDT / 14:30-16:30 UT / 4:30-6:30 PM CEST**

**Chair:** Tony Tyson (UC Davis, Rubin Obs.)

- 7:30-8:00 Tony Tyson (UC Davis, Rubin Obs.), "Summary of Mitigations work"
- 8:00-8:15 Andrew Bradshaw (SLAC), *LSSTCAM Sensor Impacts and Correction*
- 8:15-8:30 Mike Sholl (SpaceX), *Starlink Optical Signature Characterization*
- 8:30-8:45 Federica Bianco (U. Del., LSST Science Collaborations), *Impact on Rubin Observatory Science Collaborations Programs*
- 8:45-9:00 Clare Saunders (Princeton, Rubin Obs.), *Mitigation of Satellite Tracks in LSST Data Processing*
- 9:00-9:30 Discussion

Break

**Report of the METRICS Working Group**

**10:00 AM-12:00 PM PDT / 1:00-3:00 PM EDT / 17:00-19:00 UT / 7:00 PM-9:00 PM CEST**

**Chair:** Richard Green (Steward Observatory)

**Speakers:**

- 10:00-10:15 Richard Green (Steward Observatory, UArizona), *Metrics for Reflected Sunlight and Position Accuracy*
- 10:15-10:40 James Lowenthal (Smith), *Metrics for Impact on Diverse Astronomical Programs and Recommended Simulation Studies*
- 10:40-10:55 John Barentine (IDA), *Impact on Amateurs and the Non-Scientific Community*
- 10:55-11:15 Jared Greene (SpaceX), *Impact mitigation through operator collaboration*
- 11:15-Noon Discussion