

# Cooperative Research Programs (CoRP) Science Symposium (25 – 27 July 2022)

## Agenda

### **DAY 0 (Pre-Meeting): Sunday, July 24th**

See Pre-Symposium Social Event Tab

### **DAY 1: Monday, July 25th**

**8:30 – 9:00: Check-In, Name Tags, Light Breakfast**

**9:00 – 9:10: Welcome, Logistics, & Introductions**

David McLean (Dean of the Walter Scott, Jr. College of Engineering)  
Steve Miller (CIRA Director)

**9:10 – 10:30: NOAA Leadership Presentations**

Moderator: Chris Brown (CoRP Director)

Steve Volz (Assistant Administrator, NESDIS)

*“The National Environmental Satellite, Data, and Information Service (NESDIS)”*

Satya Kalluri (JPSS Project Scientist)

*“The Joint Polar Satellite System (JPSS) Satellite Program”*

Andy Heidinger (GeoXO Project Scientist)

*“The Geostationary Extended Observations (GeoXO) Satellite Program”*

Thad Bowman (NESDIS)

*“NESDIS Early-Career Opportunities”*

**10:30 – 11:00 Coffee/Discussion Break**

***Sign-up sheet for Drone Center Activity***

***Sign-up sheet for No-Host small group Dinners with Mentors***

**11:00 – 12:00: Open Format Mentor Panel Discussion 1**

Moderator: Steve Miller (CIRA)

Mentors: Bill Line (CoRP/RAMMB), Melissa Burt (CSU/ATS), Amanda Back (CIRA/GSL),  
Shakila Merchant (CESSRST)

**12:00 – 1:30: Catered Lunch – Students Mingle With Professionals**

**1:30 – 3:30: Student and Young Scientist Presentations**

Moderator: Wayne Feltz (CIMSS)

Mitch Goldberg (Chief Scientist, NESDIS)

*“Science at the National Environmental Satellite, Data, and Information Service (NESDIS)”*

Stephanie Ortland (nee. Bradshaw) (CIMSS)

*“ThunderCast: A Deep Learning Model for Nowcasting Midlatitude Thunderstorms”*

Keneshia Hibbert (CUNY/CESSRST) - Title (tbd)

Daile Zhang (CISESS)

*"Developing & Deploying Tools to Better Observe Lightning in the Washington D.C. Region & Beyond"*

Yifan Yang (CIRA)

*"Machine Learning for Precipitation Retrieval Using ABI and GLM Measurements on the GOES-R Series"*

Maria Novoa (CUNY/CESSRST)

Zaibeth Carlo Frontera (CIRA)

*"Using Random Forest to Forecast Hurricane Presence in the East Pacific with a 2-Week Lead"*

Alex Alvin Cheung (Lapenta Intern at CIRA)

*"Detecting Tropical Cyclone Secondary Eyewalls with Microwave-Based Scheme"*

### **3:30 – 4:00 Coffee/Discussion Break**

### **4:00 – 5:00: CI/MSI Partnership Program Presentations**

Moderator: Chris Kummerow (CSU/ATS): *"Introduction to CIRA/MSI Program"*

Chris Kummerow (CSU/ATS) with Hernan Moreno-Ramirez (UTEP) and Andres Monsalve Salazar  
Matt Rogers (CIRA) with Prof. Nir Krakauer (CESSRST) and Elaine Famutimi (CCNY)

### **5:00 – 7:30 Poster Session & Ice Breaker (with Heavy Hors D'oeuvres and Bar)**

Moderator: Steve Miller and Renate Brummer

## **DAY 2: Tuesday, July 26th**

### **8:30 – 9:00: Arrive, Light Breakfast**

### **9:00 – 10:00: NOAA and EPP/MSI CSC Leadership Presentations**

Moderator: Bill Line (CoRP/RAMMB)

Melissa Petty (NOAA Global Systems Laboratory)

*"The Future of the NOAA GSL End-to-End Science Mission"*

Shakila Merchant (NOAA Education Partnership Program/Minority Serving Institutions  
Cooperative Science Centers)

*"CESSRST Overview"*

Audrey Trotman (NOAA Education Partnership Program/Minority Serving Institutions)

*"NOAA Cooperative Science Centers – Expanding the candidate pool for future NOAA mission enterprise career paths." (Virtual)*

### **10:00 – 10:30 Coffee/Discussion Break**

### **10:30 – 12:00: Student and Young Scientist Presentations**

Moderator: Hugo Berbery (CISESS/UMD)

Anthony Bernal Ayala (CIMSS)

*"Parallax Shift in GOES ABI Data"*

Zachary Paganini (CUNY/CESSRST) - Title tbd

Zoey Rosen (CIRA)

*“Shades of Risk: A Social-Scientific Approach to Designing a New Hurricane Map Graphic”*

Malarvizhi Arulraj (CISESS)

*“Assessing the Impact of Precipitation Vertical Structure in the Satellite Precipitation Retrievals – Feature-based approach.”*

Jessica Chen (CUNY/CESSRST)

*“Impacts of Smoke Intrusion in New York City on Pollution and Health.”*

Kevin Yang (CIRA/CSU ATS)

*“Near-Cloud Aerosol Retrieval From Passive Satellite Observations Using Machine Learning Techniques, and Implied Direct Radiative Effects”*

**12:00 – 1:00: Catered Lunch – Students Mingle With Professionals**

**1:00 – 4:00: Drone Center Activity (15-Minutes to Travel Each Way)**

**4:00 – 5:00: Open Format Mentor Panel Discussion 2**

Moderator: Shakila Merchant (CESSRST)

Mentors: Alisa Young (STAR), Chris Kummerow (CSU/ATS), Satya Kalluri (JPSS), Renate Brummer (CIRA)

**5:00 – 5:30: Mingling with Light Refreshments**

**6:30: No-Host Dinners – Students with Senior Staff**

**DAY 3 (HALF-DAY): Wednesday, July 27th**

**8:30 – 9:00: Arrive, Light Breakfast**

**9:00 – 10:00: Developing Your Support Network**

Melissa Burt (CSU/ATS)

**10:00 – 10:30: Coffee/Discussion Break**

**10:30 – 11:30: CI Leadership Presentations**

Moderator: Steve Miller (Director, CIRA)

Hugo Berbery (Director, CISESS MD campus): *“CISESS Overview”*

Wayne Feltz (Deputy Director, CIMSS): *“CIMSS Overview”*

Renate Brummer (Deputy Director, CIRA): *“CIRA Overview”*

**11:30 – 12:00: Student Awards**

Moderator: Steve Miller and Chris Brown

**12:00: Closing Remarks and Meeting Adjourn**

Moderator: Steve Miller and Chris Brown