

# ECLIPSECON

AN ECLIPSE MEGAMOVIE MEETING

## Detailed Program

**Monday Morning, March 23, 2026**

Sonoma State University (SSU) Student Center

**9:00 a.m. to noon** — Presentations and Facilitated Learning

### Research Findings from Eclipse Megamovie

*Presentation and discussion focused on the questions below:*

**Subject Matter Experts:** Drs. Oliveros Martinez and Peticolas

**Facilitator:** Dr. Raquell Holmes

- ❖ What scientific outcomes, datasets, and methodological advances were produced through the Eclipse Megamovie project, and how do they contribute to understanding the solar corona?
- ❖ How can the results, data products, and analytical approaches developed through Eclipse Megamovie inform future eclipse-based solar research efforts?
- ❖ What practices were implemented across event preparation, data collection, data processing, analysis, and collaboration that can be documented as best practices and sustained in future research and education programs?

### Machine Learning and Data Analysis Techniques

*Facilitated learning using the questions below:*

**Subject Matter Experts:** Prof. Gill and Dr. Oliveros Martinez

**Eclipse Megamovie Team Experts:** Troy Wilson, Jesus Longares,  
Owen Wilson, Jennifer Ortiz

**Facilitator:** Dr. Raquell Holmes

- ❖ What Machine Learning (ML) techniques were successfully utilized, and how did they differ from those that were unsuccessful?
- ❖ What data analysis algorithms were used to produce scientifically valuable High-Dynamic Range (HDR) images, and how did they differ from those used to create artistic HDR images?
- ❖ How did student, citizen, and community scientists contribute to the data analysis process?
- ❖ What algorithms or other machine learning techniques support eclipse image data analysis?
- ❖ What practices implemented in machine learning and data analysis can be documented as best practices and sustained in research and education programs?

## Monday Afternoon, March 23 (cont.)

**12:00 p.m. to 2:00 p.m** — Lunch Share-a-thon (*lunch provided*)

- ❖ Custom camera automation software for eclipse photography –The Saxtons
- ❖ Eclipse Megamovie Data Analysis –SSU Student Posters
- ❖ Can a DIY tracking mount be a viable low-cost option? –EdEon Team
- ❖ Additional sessions TBD as registrants sign up with details

**2:00 p.m. to 5:30 p.m** — Presentations and Facilitated Learning

### Photography for Solar Corona Research

*Facilitated learning using the questions below:*

**Subject Matter Experts:** TBD

**Eclipse Megamovie Team Experts:** Dr. Oliveros Martinez, Jeffery Reedy

**Facilitator:** Dr. Raquell Holmes

- ❖ What photography tools, skills, or knowledge would have been helpful for successfully photographing the solar corona for scientific purposes?
- ❖ What did you learn from participating in the Eclipse Megamovie or other eclipse citizen science or educational activities that will inform future decisions?
- ❖ What main takeaways can we document when reflecting on the past 10 years of eclipse citizen science efforts using photography and telescopes?
- ❖ How might future citizen science photography efforts mitigate potential risks associated with capturing scientifically relevant images of solar eclipses?

### Eclipse Preparations, Education and Outreach

*Presentation and discussion focused on the questions below:*

**Subject Matter Experts:** TBD

**Eclipse Megamovie Team Experts:** Darlene Yan

**Facilitator:** Dr. Raquell Holmes

- ❖ What tools, skills, practices, and knowledge ensure a successful eclipse event for small and/or large audiences?
- ❖ What impacts and outcomes were used to define success for eclipse education and outreach events?
- ❖ What practices implemented across event preparation, activity implementation, and collaboration can be documented as best practices and sustained in future research and education programs?

**5:30 p.m.** — Meeting adjourns

## Monday Night, March 23 (cont.)

*Dinner on your own*

### **8:30 p.m. to** — *Astrophotography & Amateur Astronomy Night*

Sonoma County Amateur Astronomer's presentation on astrophotography. Night sky viewing with the three Robert Ferguson Observatory (RFO) telescopes. Bring your curiosity—and your camera, computer, and tripod.

#### **Location:**

[Robert Ferguson Observatory](#)

2605 Adobe Canyon Rd  
Kenwood, CA 95452.

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## Tuesday Morning, March 24, 2026

### **9:00 a.m. to noon** — Facilitated Planning for Future Work

#### **Future Eclipse Citizen Science, Photography, or Outreach**

*Facilitated group discussions to draft concrete plans.*

**Subject Matter Experts:** TBD

**Eclipse Megamovie Team Experts:** Dr. Peticolas

**Facilitator:** Dr. Raquell Holmes

- ❖ We will synthesize and summarize activities, research, lessons learned, and resources documented over the past 10 years and shared during this meeting.
- ❖ We will organize ideas on how to shape the future of eclipse photography and citizen science efforts based on these findings.
- ❖ We will plan next steps for future eclipses (international and national) or other natural events in the sky that can be used to inspire, educate, or support scientific research with families, friends, and/or communities.

### **12:00 p.m. to 12:30 pm** — Closing Remarks and Next Steps

*Lunch on your own*

### **2:30 p.m.** — Side meetings or travel home