**Agenda for the Session: Electrostatics In Space!**

|  |  |  |
| --- | --- | --- |
| **Time** | **Activity** | **Time** |
| **8:30-9:00** | **Registration** | **(30 min)** |
| **9:00- 10:40** | **Introduction of Workshop Team/ Workshop agenda/EIS Academy**  **Is Space Empty?**  **Cloud Chamber Demonstration & Activity**  **& Discussion** | **100 min** |
| **10:40 - 10:50** | **BREAK** | **(10 min)** |
| **10:50-11:20**    **11:20 - 11:40**    **11:40 - 12:30** | **Where do the particles/plasma originate ?**  **(Photons, charged Particles & Plasma)**  **Discuss solar wind/ CME’s/other stars GCR (Galactic Cosmic Rays)**  **CME’s, SPE (Solar Particle Events)**  **SOHO Activity to determine size and speed of CME**  [**https://sohowww.nascom.nasa.gov/classroom/cme\_activity.html**](https://sohowww.nascom.nasa.gov/classroom/cme_activity.html)  SOHO clip of CME:  <https://sohowww.nascom.nasa.gov/classroom/cme_activity.html>    **Plasma Investigations with:**  **Spectrum tubes w/power source**  **Plasma Balls**  **SOHO and SDO as resources** | **30 min**    **20 min**  **40 min** |
| **12:30- 1:15** | **Lunch** | **45 min** |
| **1:15 - 2:10** | **Aurora Explained (Dawn of the North Link)**  **Kinesthetic Activity**  **Magnetometer in a Bottle**  **SOFIA Magnetometer Clip** | **55 min** |
| **2:10 -2:50** | **Define Electrostatics**  **Electrostatics Effects**  **Discussion on how things move electrostatically** | **40 min** |
| **2:50 - 3:10** | **Electrostatic Effects on Hubble Demo**  **Fun Flyers**  **& Discussion** | **30 min** |
| **3:10 - 3:20** | **Break** | **10 min** |
| **3:20 - 4:05** | **Electrostatic effects on Human Physiology**  **Definitions sheet**  **View clip: “Could We Survive Prolonged Space TraveL?”**  [**https://www.youtube.com/watch?time\_continue=26&v=upp9-w6GPhU**](https://www.youtube.com/watch?time_continue=26&v=upp9-w6GPhU) | **45 min** |
| **4:05 - 4:20** | **Discussion on how to use the tools in the classroom** | **15 min** |
| **4:35 - 4:50** | **EIS/Yerkes Future Plans & Programs, Resources**  **EIS Academy Opportunities, and Evaluation** | **25 min** |
|  | **Total Instructional Time** | **6.5 hrs** |