

Education and Public Outreach Activities for the SOHO Ultraviolet Coronagraph Spectrometer Program

presented by Leonard Strachan



SOHO is a joint ESA / NASA mission to study the Sun and solar wind. It is now in its sixth year of science operations.

UVCS is the SAO instrument onboard which is used to study the physical properties of the extended corona using ultraviolet spectroscopy. John Kohl is PI.

<http://cfa-www.harvard.edu/uvcs/>

Overview of UVCS E/PO Programs

- ❑ **Who we are:** Primarily scientists in the UVCS group at SAO and at Goddard Space Flight Center.

- ❑ **Our major collaborators:**
 - NASA Sun-Earth Connection E/PO Forum
 - ESA and NASA SOHO Project Office
 - Boston Museum of Science
 - Project ASTRO
 - Howard University in Washington, DC
 - Southern University – Baton Rouge

- ❑ **Scope of programs:** We have only one program specifically funded for E/PO. All other programs come from UVCS program budget. We intend to have major E/PO efforts for new proposals.

Highlights of UVCS E/PO Activities

☐ Informal Education:

- Sun-Earth Day 2002: Talks and UVCS Exhibit at Museum of Science
- SOHO 5th Anniv. (2001): 10 Talks on SOHO science and Space Weather to general audiences and K-12 schools
- Support CfA's Bring your Daughters and Sons to Work

☐ Formal Education:

- Contributed to "Secrets of the Sun" Turnstone Explorer Textbook & Teachers Guide (1998)
- Contributed to SOHO Education Lithograph Set (2001)

☐ Public Outreach:

- Participated in Local TV News and Radio Programs
- Talks by UVCS scientists to amateur groups, clubs, etc.

☐ Outreach to Under-represented Groups / Small Colleges:

- Student Interns from HBCUs and Muskingum College (1997-2002)
- Southern University Partnership: Mentoring, Lectures, Interns (2001-2003)

Areas Where Help is Needed

- ❑ Partnership with SED for Formal Science Education Program
 - Development of Science Curricula for Grades K-12
 - K-12 Teacher Professional Development
- ❑ Leveraging of Other Resources
 - Incorporating solar science into existing outreach programs
- ❑ Development of Education “Products”
 - Science textbooks and CDs
 - Educational Videos
 - Posters, etc.
- ❑ Dissemination on a National Level