TOPS Program

Astronomy & Culture Outreach

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The TOPS Program

Goals
- Teacher Training
- Student Training
- Awareness of Science & Culture in Hawaii

Program Essentials
- Lectures
- Hands on activity
- Field Trips
- Observing

Oahu (3 dy; teachers);
Big Island (2 wks; all)

Hands On & Lectures

IRTF Remote Observing
Discussion; NASA Scientists
Learning the Night Sky
Mirror Making
Hands on Astrobiology

Nighttime Observing

Beginner to Advanced Projects
Student & Teacher Teams
Discussion Groups
Project Presentations
Scientific Investigation Skills

Observing Projects

- Variable Stars & Messier Hunt
- Lunar & Deep Sky Photography
- Photometry
- CCD Imaging
- Spectroscopy

Culture & Astronomy

- Exploring Cultural Heritage
- Learning practical Skills
- Engaging in frontline research

Polynesian Voyaging

Kukaniloko calendar

Learning Surveying

Lecturing slide
TOPS Results

- Teacher Presentations at HaSTA, HSTA
- IfA Openhouse Participation
- Planetarium Shows
- Astronomy Course Development
- Student Science Fair Projects
- Joint AAVSO Mtg 7/02 – Big Island
- Community Connections

Outreach Interconnections

- TOPS
- Faulkes REU/RET
- IFA Outreach
- Research
- Grad Pgm

Inside Connections
- Graduates
- Articles
- Publications
- Lectures

Outside Connections
- TOPS Followup
- Public House
- Public Speaking

- Faulkes REU/RET
- IFA Outreach
- School Reform
- Science Fair
- Student Careers

- AAVSO
- NASA Astrobiology
- Space Missions

- Taiwanese/Astronomy
- Pacific Cultures
- Lakota Indians

- Hawaiian Astronomy
- Pacific Cultures

- Hawaii Science Fair
- Student Careers