

Next Gen FIR Instrument Workshop

Thurs Mar 23, 2017

Caltech

SOFIA Tour Fri Mar 24, 2017

[https://www.cfa.harvard.edu/
~mmacgreg/FIR SIG/events.html](https://www.cfa.harvard.edu/~mmacgreg/FIR_SIG/events.html)



If you were awarded 200 hrs on SOFIA or a series of many balloon campaigns what would you do with that time?

What science areas are not being addressed by our current far-IR (20-600 micron) platforms?

Where are our critical technology gaps?

We want to hear from you! Please bring your answers to those questions, and share your ideas to shape how we collect future Far-IR data at the Far Infrared Next Generation Instrument Community Workshop, at Caltech, on **Thursday March 23, 2017, 8:30am-5pm PST.**

A map to Room 401, Spalding, Caltech, can be found [here](#).

Please indicate your intent to attend by filling out this [registration form](#).

Schedule

March 23, 2017

8:30am	Coffe & Pasteries	
9:00am	Workshop Introduction & Scope	Kimberly Ennico
9:30am	What you don't know about SOFIA	Hal Yorke
10:00am	What may balloons be doing next?	Chris Walker
10:30am	Coffee Break	
11:00am	Using multiple platforms for Far-IR technology development	Carl Ferkinhoff
11:30am	Discussion Introduction & Lessons Learned	Kimberly Ennico
11:45am	Part 1 - Our Future Are there specific areas that we need to see emphasized in future Far-IR (ROSES, etc.) calls?	Moderator: TBD
12:15pm	Lunch List of local restaurants here	
1:30pm	Part 2 - Shaping the Next Generation What do you want your SOFIA Observatory to achieve next? Upcoming ROSES opportunity	
3:15pm	Coffee Break	
3:45pm	Part 3 - Shaping access above 80,000 feet (24 km)	
4:45pm	Wrap-up and Adjourn	Kimberly Ennico

Science Gap Thinking Questions

1. If you were awarded 200 hrs on SOFIA or a series of many balloon campaigns what would you do with that time?
2. What science areas are not being addressed by our current far-IR (20-600 micron) platforms?
3. Where are our critical technology gaps?
4. What knowledge (science) gaps has SOFIA left since its first flight?

Gathering input to shape ROSES 2017

SOFIA Next Gen Call for Proposals

1. Are there specific areas of science we should be emphasizing in the call?
2. Are there ways we can use what's on SOFIA now to make a new capability more feasible to develop? (e.g. standard dewar, gutting & reusing an existing facility science instrument)
3. If we did not give people a “cost cap”, what could they deliver?
4. Should we use SOFIA as a test-bench? Is there interest in the technology-only development use of the SOFIA platform? If so, we still will want to emphasize tech development flights need to have a clear astronomical connection and ultimate benefit.
5. Is there a desire for international participation? If so, to what extent [full instrument, part of instrument, specific unique contribution to the science return such as laboratory spectra, calibration techniques, etc.]?
6. Is there a specific interest in German-US partnership in an instrument?
7. Will you be interested in participating on an instrument proposal for SOFIA? If yes, what expertise will you bring to the collaboration?
8. From the US community, is there a desire to have a PI vs. FSI instrument and, for what reasons?

What other questions need we to ask?

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