

Subject: Thursday's JRDG Teleconference...

Date: Mon, 22 May 2000 08:44:05 -0700

From: Jennifer Neighbours <jneighbo@tuc.nrao.edu>

To: Carolyn White <cwhite@NRAO.EDU>

Hi Carolyn --

I meant to include you on Friday's distribution of the following and forgot at the last minute. I've been adjusting my address book JRDG list and have finally got it straight.

By the way, there is a correction needed in the Minutes from last teleconference. In number 5 under Action Items, 'Torben Andersen' should be 'Wolfgang Wild'. John wanted me to include the Action Item section in the new agenda. I just did a cut and paste. Didn't realize that there was a problem. He was stressed anyway on Friday and sometimes he likes to have someone to jump on -- I lucked out! Anyway, it needs to be changed in web page JRDG minutes. He's hiking the Grand Canyon at the moment, so I hope he comes back refreshed and better-tempered.

Things are calmer for me now that the Test Plan meeting of last week is over. It seemed to go well -- and from reading reports of those who attended (ALMA Weekly Reports), it was productive. It was definitely one of my LONGEST weeks! I'm taking a couple of extra days (Fri/Tues) around Memorial Day weekend. Have to go to California to check on (my) John's 90-yr old uncle who lives alone. It may be cooler there -- we're due for 105 and 106 in the next couple of days! Yuk!

Have a great holiday weekend!

Jennifer

Greetings --

Following is the agenda for the next ALMA JRDG Teleconference, which will take place at 15:00 UTC (see www.timeanddate.com for your location) next Thursday, 25 May. For teleconference participants in the U.S., please dial 888-551-7094. For international participants (including Canada), please dial +1-712-271-3362. You will be asked for PASSCODE NUMBER 98939 and name of Conference Leader: JOHN PAYNE. Dial-in numbers, passcode number, and name of conference leader will remain the same for all JRDG teleconferences scheduled for the last Thursday of each month.

Wolfgang will be unable to attend this meeting. John will be away from the office and not be available until the day of the meeting.

Best Wishes,

Jennifer/NRAO

AGENDA for ALMA JRDG Monthly Teleconference -- Thursday, 25 May

- 1) Review of status of action items from last meeting. (See list at end of agenda.)
- 2) Report on progress on the optical design. (Matt)
- 3) Report on progress on dewar design. (Mark)

- 4) Brief description of Japanese Bands 8 and 10. (Can Sekimoto-san circulate electronic drawings of these prior to the meeting? -- or put them on the ESO web site?)
- 5) Baseline receiver design proposed at the last meeting. (See proposal following Action Items.) Any comments or suggestions?
- 6) Other business.

ACTION ITEMS:

- 1) Rutherford needs an accurate estimate of the heat loads on the various cryogenic stages.
Who: John Payne
When: June 01, 2000
- 2) The calibration question needs to be settled.
Who: Richard Plambeck
When: June 30, 2000
- 3) HFET performance: An analysis and report on the suitability of the amplifiers for ALMA.
Who: John Webber
When: June 30, 2000
- 4) Thermal link justification report.
Who: Mark Harman
When: May 19, 2000
- 5) Dewar/Antenna Interface Teleconference will be setup between the antenna group and a subset of the JRDG. Any questions, comments, etc., about the antenna/receiver interface should be directed to:
U.S.- John Payne
Europe - Wolfgang Wild

PROPOSAL FOR RECEIVER BASELINE DESIGN:

The appendix to the agenda represents a change in receiver design. The following is proposed:

- 1) We eliminate the provision for Martin Puplett interferometers in the dewar design.
- 2) All cartridges may now be supplied with LO power through the bottom of the cartridge. In the case of the multiplier approach, the input will be W-band waveguide with the final multiplier at 15K. Optical LO insertion into a WG hybrid is another possibility.
- 3) The baseline for lower frequencies is sideband separating mixers (with DSB mixers as a fall-back position), and for higher frequencies a balanced DSB configuration (with single-ended DSB mixers as fall-back position).