

## Minutes for AMiBA Engineering Telecon

Meeting Date: 28-October-2004

Participants:

Australia:

USA: Ming-Tang, Homin, Johnson, Kyle, Jeff

Taiwan: Huei, C.T., Steven, West, Patrick

USA Dial-in = 1-800-653-5390, 6668081#

Outside USA Dial-in = 1 773 843 6301

Minutes Recorder: C.T. Li

[previous weeks comments](#)

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### I. New Action Items:

### II. Previous Action Items (still open):

### III. Closed Action Items (as of this meeting):

### IV. Miscellaneous Discussions:

MMIC:

C.T. - [Purchase order for the doubler housing was issued. It will take 21 days for the machine shop to deliver the products.](#)

Receiver:

Johnson - We will put on the translation stage for the receivers, and leak check on Rx#1. Rx#2 still has the 3K temperature variation in few minutes even when the bias is off. It might be due to its cold head. We can try to put on a new one when the spare arrives (shipped with correlator).

Homin - I've tried the communication between Vertex's computers, and set up a webcam for the hexapod. We have ordered 100-meter optical fibers and two transceivers for the network. I am going to try connection with the optical telescope.

[Johnson - We're checking the cooling power as both receivers were cooled down.](#)

LO/IF:

Steven - I have tested the variable gain amplifiers. It seems their gain flatness, phase stability, and gain variation with the control voltages are marginal. I've asked the vendor for explanation. We may need to look for another solution.

[Steven - I have tested two variable gain amplifiers. One has lower gain than shown in the attached data sheet. We probably have to ship it back to the vendor.](#)

Calibration System:

Correlator:

C.T. - Equipments were shipped on Tuesday. I plan to arrive in Hilo on Nov. 8. We received the revised total power circuit boards. We will assemble one and test it in Taipei first.

[C.T. - All equipments were packed. It will possibly take 2 weeks to ship and get through the customs.](#)

Platform/Mount:

Ming-Tang - Philippe and Ted have finished the cone installation. The Vertex engineer will come by end of this week to check on the leveling and alignment. Then we will begin the grouting in next week. The shelter should also arrive in next week.

West - I am waiting for quotes for the flexible Helium lines. I will do some modifications on Helium hard line layout and design the fixture.

[West - I will circulate the helium line design by this Friday.](#)

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Ted - The cone was shipped up to MLO yesterday. We will start the cone assembly tomorrow.

Philippe - I was in CMA on Monday to check on the status of the platform. They're making very thorough inspection, improving all the gaps existing between plates, shimmed with glue. All the L-brackets were glued as well. It's progressing nicely. About the schedule, they may expect to finish the modification by the end of Nov. Assembly is planned for the 2<sup>nd</sup> week in Dec. Then acceptance test, disassembly and shipping will follow.

Ming-Tang/Philippe - We should put together the hexapod and the dummy ring by mid Dec. The cabling will take about 2 weeks. We will probably start the pointing in early Jan. Because of the dummy ring design, the pointing will be limited between 50 ~ 90 degrees. Vertex server people will be in Hilo in Jan. for hexapod re-commissioning. Then we need to carry out the tracking exercise.

### Dish:

Jeff - We have received the importation notice about the receiver components used to test the 1.2-meter dish.

Patrick - One 60-cm dish was shipped to Hilo with correlator on Tuesday. Michael will be on site during the pointing testing. His program can accommodate the orientation limitation with the dummy ring.

Patrick/Ted - According to Michael, the asymmetry of 1<sup>st</sup> side lobes could be due to mis-alignment. We will ship this new 60-cm dish to Hilo to measure the dish temperature. It will take about 2 months for Along to finish the remaining 6 dishes.

### Site:

Ming-Tang - Pierre and the contractor are working on the electrical wiring around the site, especially for the shelter.