

Minutes for AMiBA Engineering Telecom 20060815, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

Participants: Peter, MTC, Ted, Joshua, Johnson, Ken, CT, Patrick, Chia-Hoa, Su-Wei, Hiroaki, Keiichi, Paul_H, Paul_S, Locutus, Kyle

USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #

Outside USA Dial-in = 1 630 693 3224

- **Upcoming Milestone**
 - **Oct. 3, 2006, Yuan Lee site visit. AMiBA Dedication**
- The Current Issues:
 - (0815) Johnson: Receivers are in compact configuration. All were cold and tested out. Ready for array testing
 - (0815) CT: Correlator readout board debugged. Would be back in correlator for system test. Schedule Monday for Sun scan.
 - 1.2 M dish fabrication: A more complete minutes would be circulated by Philippe.
 - Weight inconsistency in FEA and prototype: Still unknown. (Philippe)
 - Baffle design for honeycomb: Waiting. (Philippe)
 - Feedleg: Patrick circulated his calculation. Increase the thickness of the legs from 3mm to 10mm would reduce efficiency from 94% to 92%. This would be a tradeoff for a stronger feedleg structure. Agree to go ahead.
 - Protection coating: Patrick and Wang Shiang-yu would visit the coating factory. Patrick to keep us posted.
 - Schedule: Whether to ship the modified prototype to Hilo? Indecision
 - Beam pattern measurement: Keiichi to find out how other did theirs, and what AMiBA really need. (For pushing the right front of our work.)
 - Ready for system alignment next week.
- Site & Hilo Lab:
 - (0526) Vendor was working on an enclosure. Need a schedule.
 - (0504) emergency power generator (Pierre)
 - Few more tasks or issues need to be discussed or taken care of:
 - Transformer to be moved out of control room
 - Automate the weather station
 - A Site PA system (Over internet?)
 - Lighting protection. Enlist professional help.
 - Fabric replacement (Long term, but important.)
 - Supporting cone insulation?
 - Platform covers for drop-thru holes (CFRP, strong structure)?
 - A stair way up to the platform – might have to order an off-the-shelf model and modify it?
 - Crane?
- Calibration:
- RX/IF/LO:
 - (Log0607) 60 Hz ground loop appeared in IF/LO output?
- Data storage: Proposition of setting up on-site (MLO) storage and back up facility. Proty volunteer to take on the task for a plan.
- Software update:
- Major Issues:
 - (20060517) Large temperature variation in correlator. Major problem. Resolution to be investigated.
 - (20060507) DRO & receiver overnight stability. Got measurement. DRO over night seemed OK in both phase and amplitude. MT urged everyone to look into what were the realistic numbers we were after. Would come back to this issue again.
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- Intermittent Issues:
 - (20060517) Too much activity and work load in correlator computer? Resolved with extra computer in the cone area? Monitoring computer under the hexapod, permanent or not?

- (20060504) ACU occasional crashes. Cause unknown. Reboot the machine would resolve the situation.

Traveling Schedule to Hilo

| | |
|--------------|-------------------|
| Ted Huang | July 18 -- Aug 31 |
| Johnson Han | July 11 – Aug 31 |
| Joshua Chang | July 1 – Aug 31 |
| Ken Chen | July 8 – |
| CT Li | Aug 5 – Aug 31 |

ASIAA Hawaii: <http://pmo.asiaa.sinica.edu.tw/Hilo%20office/>

AMiBA Website: <http://amiba.asiaa.sinica.edu.tw/>

Distribution List:

kylin@asiaa.sinica.edu.tw, ctili@asiaa.sinica.edu.tw, dkubo@sma.hawaii.edu, homin@asiaa.sinica.edu.tw, cchan@asiaa.sinica.edu.tw, shchang@asiaa.sinica.edu.tw, pmkoch@asiaa.sinica.edu.tw, pierre@asiaa.sinica.edu.tw, ydhuang@asiaa.sinica.edu.tw, chiuehth@phys.ntu.edu.tw, kyl@asiaa.sinica.edu.tw, nishioka@asiaa.sinica.edu.tw, jhpw@phys.ntu.edu.tw, keiichi@asiaa.sinica.edu.tw, r91222042@ntu.edu.tw, mkesteve@atnf.csiro.au, raffin@asiaa.sinica.edu.tw, hueiwang@ew.ee.ntu.edu.tw, pshaw@asiaa.sinica.edu.tw, yjhwang@asiaa.sinica.edu.tw, f87026@ew.ee.ntu.edu.tw, ho@cfa.harvard.edu, jbp@cmu.edu, swchang@asiaa.sinica.edu.tw, thc@ew.ee.ntu.edu.tw, chchang@asiaa.sinica.edu.tw, ken@asiaa.sinica.edu.tw, fabi@asiaa.sinica.edu.tw, poshiro@asiaa.sinica.edu.tw, jlim@asiaa.sinica.edu.tw, wwilson@atnf.CSIRO.AU,

Please contact MTC for managing this mailing list