

Team Leader: **Eric Nolan**

Secretary: **Tom Blanford**

Team members in attendance:

Michael Sizemore, Sara Taylor, Eric Nolan, Tom Blanford

Review of Last Meeting

Review of completed works - DSP progress, battery progress, website

Meeting Summary

Resolution of last week's issues

Eric wishes us all a happy Valentine's Day.

DSP:

- Tom has DSP running with 3 modes, external signal auto-volume, EEPROM
- Stereo enhancement algorithm in progress (with Mark)
- Working with external cock, still need to interface to ADC

A/D:

- Soldered onto board successfully
- Tom is in process of interfacing to DSP

BOARD:

- Microphone boards arrived, still awaiting microphones
- Next step is to attempt to solder microphones
 - Solder paste in closet/freezer by loading dock

MEMORY:

- Will use identical EEPROM to eval board
- I2C interface (must include pull up resistors - 10k? - in schematic)

BATTERY:

- Sara provided specs of battery under consideration.
 - Need to evaluate current draw of: DSP, ADC, lights, voltage regulator

WEBSITE:

- Sara has updated website with basic information and far too many lemurs.

USER INTERFACE:

- Discussion of bypass mode - implement by switch or auto-enable with low battery
 - Want to consider auto-enable using depletion mode MOSFETs (bandwidth?)
- Will use 2 connectors on headphones/microphones to allow headphones to still work with other devices

Unresolved Issues

- Still need to discuss Master clock - look into crystals.
- Michael forgot to bring in his Valentines. Does he really love us?
- Sara indicated abusive tendencies to small mammals. Should we get the SPCA involved?

Weekly assignments

ERIC: Look into depletion mode MOSFETs and consider bandwidth and frequency response

TOM and MARK: Continue DSP programming, interface to ADC

MICHAEL: Eagling packages, add in EEPROM and pull up resistors for I2C interface

TOM: Check current draw of devices and consider battery's spec's.

SARA: Be nicer to animals. Don't treat them like you did that case from the 3d printer...