



*LIGO Laboratory / LIGO Scientific Collaboration*

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*ADVANCED LIGO*

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**Controls Prototype: - Schedule for the Advanced LIGO  
Suspension Workshop, Caltech October 13<sup>th</sup> – 18<sup>th</sup> 2003**

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Distribution of this document:  
LIGO Science Collaboration

This is an internal working note  
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## 1.1 Introduction

At present there are approximately 8 people attending the Advanced LIGO Suspension Workshop. This is being held at Caltech from the 14<sup>th</sup> – 17<sup>th</sup> October 2003. However there are some related suspension discussions on Monday the 13<sup>th</sup> October.

The current plan is to split into 2 groups for the lab work. In advance of the workshop the Caltech members of the suspension team will disassemble and arrange all of the suspension parts of the 2 mode cleaner suspensions.

All aspects of the workshop will be held in the Synchrotron Laboratory. All the offices of the suspension team are in the Bridge building Please inform Janeen Romie of attendance. Several useful links are outlined below: -

<http://admissions.caltech.edu/subpage/accommodations>

[http://atc.caltech.edu/CIT\\_parking/home.htm](http://atc.caltech.edu/CIT_parking/home.htm)

<http://admissions.caltech.edu/subpage/getting-here>

[http://www.ligo.caltech.edu/LIGO\\_web/sidebar/travel.html](http://www.ligo.caltech.edu/LIGO_web/sidebar/travel.html)

## 1.2 Schedule

A full schedule detailing the sections below should be available soon. Proposed speakers are highlighted in red.

### Monday 13<sup>th</sup> October

- 1) Preparation time for LIGO I installers.
- 2) Optical layout and footprint discussions with Luke Willems and Mike Lloyd.
- 3) MC and RM Structure discussions
- 4) Other discussions?

### Tuesday 14<sup>th</sup> October

- 1) Introduction to Suspensions Talk (Norma and Calum)
- 2) Distribution of assembly procedures and documents
- 3) Building the Sub-Assemblies.

### Wednesday 15<sup>th</sup> and Thursday 16<sup>th</sup> October

- 1) LSC Triple Assembly Talk (Calum)
- 2) Suspension Assembly

### Thursday 16<sup>th</sup> and Friday 17<sup>th</sup> October

- 1) LIGO I Installation and Alignment
  - a. Talk (Ken Mason)

- b. Description and viewing of tools used (Doug and Betsy)
- 2) Discussion
- 3) Alignment and installation of MC assemble with LIGO I tools and adjustments available on the mode cleaner suspension

If time permits

- 1) Reaction Chain assembly
- 2) QUAD assembly – ETM
  - a. Talk (Calum)
  - b. Discussion

Additional days linked to above workshop

Janeen and I thought this was a good place to list additional work items that came up as we compiled the schedule. At present our proposal is to suggest that these become possible visits to Caltech?

- 1) Russell Jones to visit Caltech with GEO 600 catcher (Nov 2003)
- 2) Ian Wilmut to visit to start work on a section of the ETM suspension (? ?)
- 3) CAC, JHR, CIT Structure work and Modal Test facility for labs (? ?)

### 1.3 Summary

All comments and suggestions are very welcome.