

**LASER AND OPTICS -
WORKING GROUP SUMMARY
LSC 3 MEETING
AUGUST 13-15, 1998
ERIC GUSTAFSON (STANFORD)**

LIGO-G980113-19-M

WHITE PAPER

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Mode Cleaners

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10. Conclusions & Recommendations

Recommendations L160 II

100 W class 1064 nm Laser

1. Consistent with Susp Group
2. Consistent with Config. Group
3. Building toward L160 III
4. Risk
5. Contamination

Larger Test Masses

Supporting Development

1. Phase Modulators
2. Optical Isolators
3. Core optics Coatings
4. Photodiodes
5. Adaptive Core optics

Recommendations For L160 III

I. Laser \rightarrow Material Change
1030 nm

II. Wavelength
515, 343, 257 nm
More materials
Delay Lines
Cryogenic

Writing Committee

Reitze & Fritschel

Camp

Zucker

Aug 21 - Conference call

August 28 - Draft to committee

Sept. 8 - Draft to Weiss

Note 1, Linda Turner, 08/20/98 01:19:17 PM
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