

**Attachment Number 2 to the
Memorandum of Understanding (LIGO-M950037-0-M)
between the
University of Colorado
and the
Laser Interferometer Gravitational Wave Observatory (LIGO) Project
May 15, 1997**

This Attachment to the Memorandum of Understanding LIGO-L950073-0-M describes the activities of Joseph A. Giaime, a Senior Research Associate in the Low Frequency Isolation (LFI) Project of the University of Colorado, as a Visitor to LIGO working on initial seismic isolation systems. The period of performance for the activities in this Attachment is from May 15, 1997 to May 14, 1998. This period may be modified by agreement to a revision of this Attachment.

1. Goal - The aim is to have Joseph A. Giaime visit at Caltech during May and June, 1997. During this time, Giaime will learn about some current LIGO activities, particularly those involving the initial seismic isolation systems. Giaime will participate in ongoing experimental work in this area. The possibility of a longer term collaboration will be explored.
2. Management - Giaime, already an expert in seismic isolation, will work under the overall direction of Stan Whitcomb, and will interact with a number of LIGO personnel active in seismic isolation, including Dennis Coyne, Mike Fine and Fred Raab.
3. Statement of Work and Deliverables - The work will be primarily carried out at Caltech. The following tasks are to be carried out:
 - a. Giaime will become familiar with seismic isolation schemes currently being considered for use in initial LIGO, and those which are candidates for advanced LIGO.
 - b. Giaime will use an ultra-low-noise piezoelectric accelerometer readout amplifier of his own design to study possible noise in the passive isolator spring elements, working with Fred Raab.
4. Reporting - Technical progress will be reported to the cognizant LIGO task leader via e-mail weekly.
5. Costs - Joseph A. Giaime will continue to be paid by the University of Colorado while at Caltech. The LIGO Project will pay for Giaime's living expenses and for his travel to and from Boulder, Colorado to Caltech, with these funds coming from the LIGO Visitors Program.

6. Intellectual Property Rights - The rights to intellectual property developed under this Attachment will be subject to the National Science Foundation Grant Policy as indicated in Section 750, Intangible Property.

Approved:

Barry Barish

Barry Barish
LIGO Principal Investigator

4/28/97

Date

James E. Faller

James E. Faller
LFI Principal Investigator

5/2/97

Date