



**Attachment OPT to the  
Memorandum of Understanding LIGO-M060057-00  
between the Embry-Riddle Gravitational Wave Astrophysics Group  
(ERGWAG)  
and the  
Laser Interferometer Gravitational Wave Observatory (LIGO)  
For The Period  
August 15, 2007 - August 14, 2008**

This Attachment OPT to the Memorandum of Understanding LIGO-M060057-00 defines the role of the Embry-Riddle Gravitational Wave Astrophysics Group (ERGWAG) as a Member of the LIGO Scientific Collaboration (LSC), and a member of the Optics Development Group (LDG). The period of performance for the activities in this Attachment is from August 15, 2007 - August 14, 2008.

### **1. Collaboration**

The Optics Development Group (ODG) is the scientific collaboration for defining and developing instruments in optics for use in advanced subsystems for the initial LIGO interferometers, or in entirely new advanced interferometers.

MOU Attachment OPT defines the roles and responsibilities of groups in this development group.

### **2. Participation**

During the period August 15, 2007 - August 14, 2008, the members of ERGWAG will participate in ODG in the following areas:

a. Optics Characterization

The information previously in attachment OPT is now in attachment SUS.

b. Other Contributions

*Not Applicable*

### **3. Resource Sharing**

The LIGO Laboratory will contribute resources including allocation of appropriate scientific and engineering personnel, research facilities, and funding in support of the effort in Item No. 2, as indicated below.

- a. Research accommodations for ERGWAG group members while on LIGO research assignment at any LIGO Laboratory site.

*Not Applicable*

- b. Access to LIGO data through established LSC channels in support of this work.

*Not Applicable*

#### **4. Coordination and Reporting**

ERGWAG will perform research within the structures established by the LIGO Laboratory and the LSC where appropriate. In particular, activities described in Item 2 will be carried out within the Optics Development Working Group of the LSC.

This includes keeping the Group leaders informed of activities and plans, reporting to the group at meetings and telecons, and through technical documents submitted to the LIGO Document Control Center.

In addition, an annual report will be submitted with the update to this Attachment, giving a summary status on research by topic as indicated in Item No. 2, including progress against the milestones if any, significant accomplishments such as new insights/discoveries or publications, issues of concern if any, and an indication of invested time.

This Attachment will be updated at least annually with a plan of activities for the succeeding one-year period. These documents will be due one month before the close of the period of performance under this Attachment.

#### **5. Computer Code**

All computer code delivered to the LSC under this Attachment must be developed in consultation with the LSC Data Analysis Software Working Group (DASWG) and archived, documented and reviewed as determined by that group.



Jay Marx  
**LIGO Laboratory Director**



Andri M. Gretarsson  
**Principal Investigator(s)**  
**ERGWAG**



David Reitze  
**LSC Spokesperson**