

Attachment OUT to the
Memorandum of Understanding (LIGO-M050315-00-M)
between the
Hobart and William Smith Colleges Group (HWSLG)
and the
Laser Interferometer Gravitational Wave Observatory (LIGO)
August 15, 2005

This Attachment OUT to the Memorandum of Understanding LIGO-M050315-00-M defines the role of the Hobart and William Smith Colleges Group (HWSLG) as a Member of the LIGO Scientific Collaboration (LSC) in support of Education and Outreach to the broader community. The period of performance for the activities in this Attachment is from August 15, 2005 to August 15, 2006.

1. Education and Outreach – As a frontier physics effort, LIGO offers a unique opportunity to inspire interest in science among students and to educate the broader community. The LIGO Laboratory supports a broad program of education and outreach to take advantage of these opportunities. Activities to attract and educate visitors take place at both Observatories, as well as the development of educational materials for use there and elsewhere. The LIGO Laboratory is building a Science Education Center at the Livingston Observatory, and is participating with local partners to make it a vehicle for science education throughout the region. LSC groups are invited to participate in these activities, and to suggest others, with the goal of leveraging activities to make a greater impact. MOU Attachments define the roles and responsibilities of groups participating in these activities.
2. During the period August 15, 2005 to August 15, 2006, the members of HWSLG will participate in Education and Outreach in the following area:

K-12 Educational Activities – HWSLG will be continuing its support of the Geneva (NY) high school LIGO program. This year we plan to create two new interactive experiments with the students: a small interferometer and a vibration isolation system. We have also received donations of a few computers that we plan to use for data analysis using the bicoherence monitor developed by HWSLG. We are exploring the possibility of arranging to have some subset of the students be able to visit one of the LIGO laboratory sites.
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 HWSLG members while on LIGO assignment at any LIGO Laboratory site,
 - b) Access to LIGO data in support through established LSC channels in support of this work.

4. Coordination and Reporting – HWSLG will perform this 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 in coordination with the LIGO Observatories Education and Outreach Leaders. Coordination will include keeping these leaders informed of activities and plans, reporting to them 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 on-year period. These documents will be due one month before the close of the period of performance under this Attachment.

5. The research effort pursuant to this Attachment B will be coordinated by Steven Penn (HWSLG) and John Thacker LLO Education and Outreach Leader.

Approved:

Barry Barish
LIGO Laboratory Director

Steven Penn
HWSLG Principal Investigator

Peter Saulson
LSC Spokesperson

John Thacker
LLO Education and Outreach Leader