Operations at LIGO Hanford and LIGO Livingston Observatories

Fred Raab March 31, 1998



Status of Observatories

LIGO Hanford Observatory (LHO):

- >>Buildings in joint occupancy
- >>Beam tube completed, accepted & pumped down
- >>Beam-tube bake out preparations underway
- >>Vacuum equipment bolted down, some plumbed, some baked
- >>Lab integration underway
- >>SEI 1st-article test underway
- LIGO Livingston Observatory (LLO):
 - >>Buildings in joint occupancy
 - >>More than 1/2 of beam tube installed
 - >> Vacuum equipment deliveries start next week

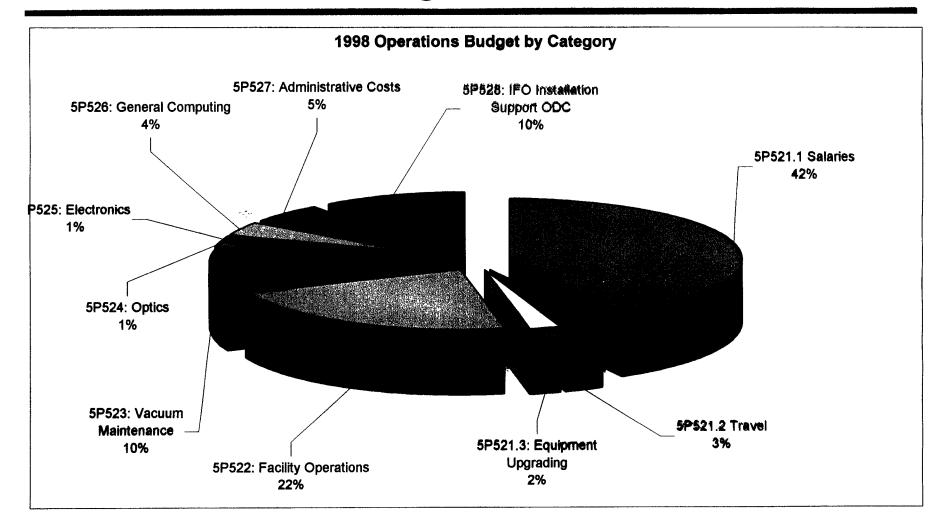


Management Philosophy

- Management structure is flat, not hierarchical
 - >>analogous to a small physics department
- Head has overall responsibility for operational mission
- Facility Manager provides facilities management, oversight of business administration and safety issues
- Science and engineering staff provide leadership and liaison on technical matters within laboratory and collaboration
- Technical support staff, together with science/engineering staff, both build and operate interferometers
 - >>no separate "technician" or "operator" classes
 - >> support staff can and will stand in for scientists on various operations tasks



LIGO Hanford Observatory (LHO) Budget Chart





LIGO Hanford Observatory (LHO) Budget Table

Operations Budget - WA Observatory (98K\$)						
Revised Basis of Estimate						
Category	Direct	Indirect	Total	%of Total		
5P521.1 Salaries	738.7	158.8	897.5	42.1%		
5P521.2 Travel	45.0	9.7	54.7	2.6%		
5P521.3: Equipment Upgrading	49.7	0.0	49.7	2.3%		
5P522: Facility Operations	402.2	58.5	460.7	21.6%		
5P523: Vacuum Maintenance	190.4	20.8	211.2	9.9%		
5P524: Optics Maintenance & Supplies	24.0	5.2	29.2	1.4%		
5P525: Electronics Maintenance & Supplies	24.0	5.2	29.2	1.4%		
5P526: General Computing	63.3	13.6	77.0	3.6%		
5P527: Administrative Costs	91.3	19.6	110.9	5.2%		
5P528: IFO Installation Support ODC	200.0	14.3	214.3	10.0%		
Total Budget (in 98K\$)	1828.5	305.7	2134.2	100.0%		



LIGO Livingston Observatory (LLO) Budget

FY98 Budget salaries:

Position	Name	Category	FTEs
Head	Coles	Mgr	0.50
Fac. Mgr.	Stapfer	Mgr	0.25
Admin	Wascom	Admin	0.25
Sr. Sci.	open	Sci	0.25
Sci.	open	Sci	0.25

 Salaries + Site Services + Materials&Supplies + Travel + Equipment = \$ 320 K for FY98

