

The View from NSF

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It's exciting to be in Hannover...

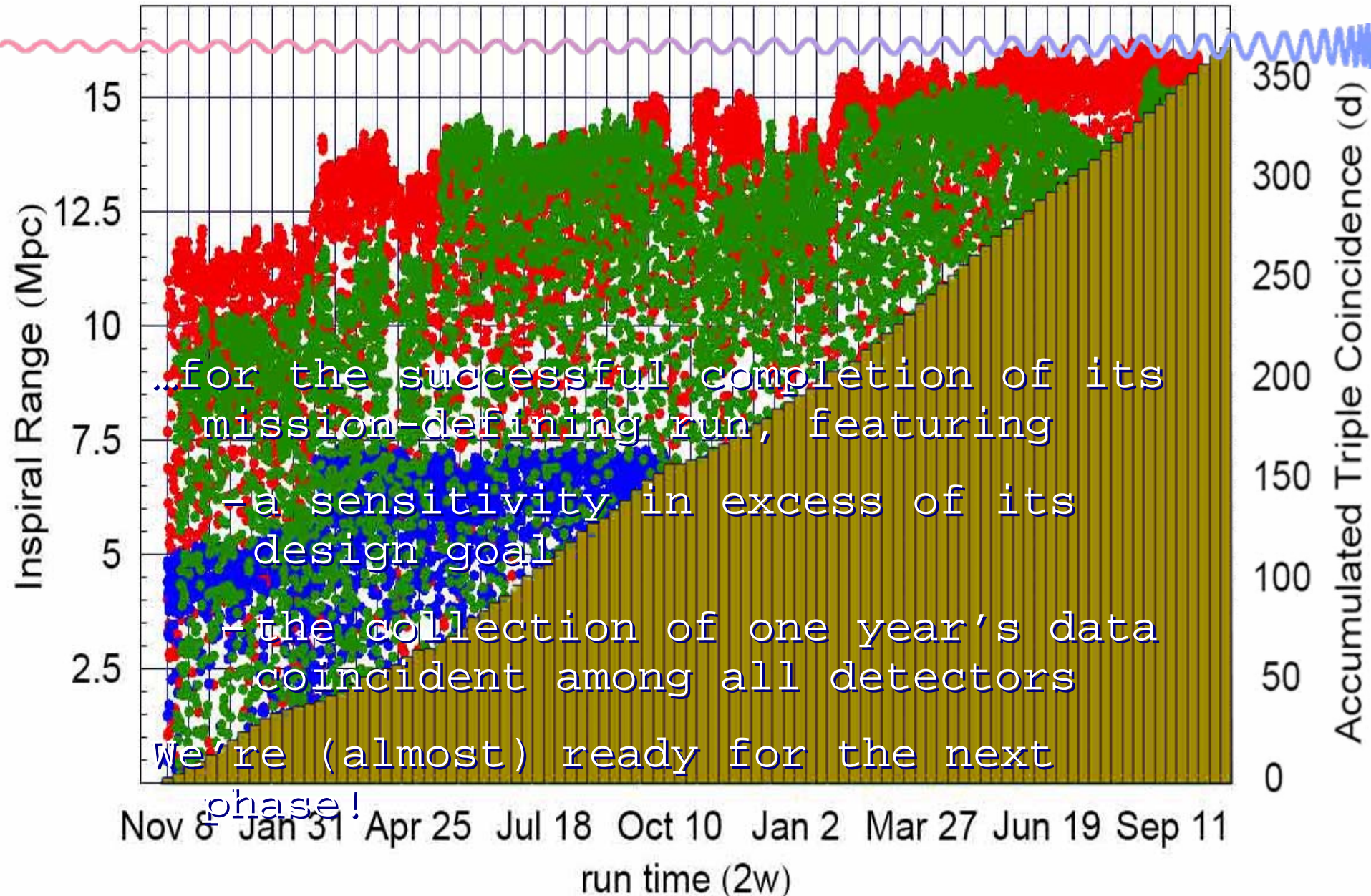


- It's rewarding to visit GEO and AEI, the source of a large part of the technology that LIGO is using and will incorporate into Advanced LIGO.



- NSF is gratified to see the new collaboration between LIGO and Virgo working so well.

Nov 6 CONGRATULATIONS 2 Mar 27 Jun 19 Sep 11



Advanced LIGO actions

- Baseline reviews in June 2006 and 2007
- Information item on readiness of Advanced LIGO presented to NSB in October 2007
- *Final readiness review scheduled for November 2007*
- Congressional appropriation – ?
- Return to NSB to release funds for project

Major LIGO review Nov 6-8, 2007

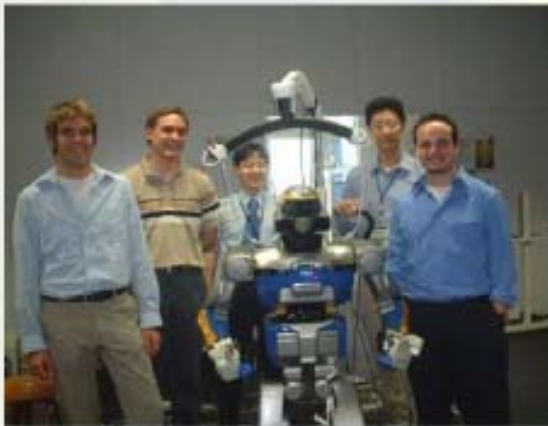
- Operations Proposal Review
- Annual Review
- Advanced LIGO Final Readiness Review

President's Request FY 2008

(DOLLARS IN MILLIONS) ↘	NSF	MPS	PHY	LIGO	Adv LIGO
FY 2006 ACTUAL	5646	1087	234.1	31.68	
FY 2007 ACTUAL	5917	1150	248.5	33.00	
FY 2008 REQUEST	6429	1253	269.1	≥28.20	32.75
CHANGE 07-08	+8.6%	+9.0%	+8.3%		



Students at Mutnovsky volcano in Kamchatka, Russia under the NSF-supported International Volcanological Field School.



U.S. students working with robots at the Digital Human Research Center, part of the Japan Science and Technology Agency.

Front cover photo: U.S. students exploring the Great Wall of China.

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Office of International Science and Engineering (OISE)



NSF 06-13



OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING

ABOUT NSF

The National Science Foundation (NSF) is a U.S. government agency responsible for promoting basic research and education in science and engineering. NSF provides more than \$5 billion per year in grants to U.S. institutions, primarily to universities, for research and education across all fields of science and engineering. NSF's investments result in new knowledge and discoveries at the scientific and engineering frontier as well as a world-class, diverse and technically trained workforce.

ABOUT OISE

NSF's Office of International Science and Engineering (OISE) serves as NSF's focal point for international science and engineering activities. OISE supports—either through its own programs or working with the other NSF directorates and offices—innovative awards and supplements that promote research excellence through new international collaboration and that develop the next generation of globally engaged scientists and engineers. OISE funds international research and education activities in all NSF-supported disciplines involving any region of the world. Researchers interested in collaborative research should consult both disciplinary and OISE program officers. OISE works to build effective partnerships throughout the global science and engineering research and education community and interacts with foreign government and scientific counterparts to facilitate research collaboration.

OISE PROGRAMMATIC ACTIVITIES

Developing Global Scientists and Engineers

- **International Research Experiences for Students:** Enable faculty at U.S. institutions to organize international research experiences for U.S. undergraduate and graduate students.
- **Doctoral Dissertation Enhancement Projects:** Support dissertation research by U.S. graduate students at a foreign site.

International Research Fellowship Program

Support for U.S. citizens or permanent residents with a recent Ph.D. to conduct research at institutions outside the United States.

Pan-American Advanced Studies Institutes

Short courses in engineering or biological, mathematical or physical sciences for advanced graduate and postdoctoral students in the Americas.

East Asia and Pacific Summer Institutes

Summer research experiences for U.S. graduate students (citizens and permanent residents) in Australia, China, Japan, Korea, New Zealand or Taiwan.

For more information on OISE, please visit <http://www.nsf.gov/oise>

Partnerships for International Research and Education (PIRE)

PIRE fosters the development of innovative models for long-term, international research and education partnerships. PIRE funds institution-to-institution, cutting-edge research conducted by U.S. universities in collaboration with foreign counterparts. PIRE supports research efforts that neither side could accomplish on its own, promotes U.S. scientists and engineers operating in international teams, and requires U.S. student participation in PIRE activities.

International Planning Visits and Workshops

- **International Planning Visits:** Travel to plan collaborative research with prospective foreign partners.
- **International Workshops:** Meetings to identify common priorities and approaches for collaboration on specific, well-defined research areas. Note: OISE does not support U.S. participation in international conferences.

NSF OVERSEAS OFFICES

OISE administers NSF's overseas offices in Beijing, Paris and Tokyo, which promote collaboration between the U.S. and international science and engineering communities as well as serve as liaisons between NSF and foreign organizations and researchers. These offices also report on in-country and regional science and technology developments and policies.

NSF's Office of International Science and Engineering (OISE)

http://www.nsf.gov/funding/pgm_list.jsp?org=OISE

Title	Solicitation #	Due Date
International Research and Education: Planning Visits and Workshops - OISE	04-035	2/20/08
Major Research Instrumentation Program (MRI)	07-510	—
ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers	07-582	12/06/07
EPSCoR Research Infrastructure Improvement Grant Program	08-500	1/4/08
Communicating Research to Public Audiences - OISE	03-509	open
Experimental Program to Stimulate Competitive Research: Workshop Opportunities (EPS)	06-613	—
PARTNERSHIPS FOR INTERNATIONAL RESEARCH AND EDUCATION (PIRE)	—	(2009)

Check NSF's funding pages!

Other open funding opportunities

Student/Early Career

http://www.nsf.gov/funding/pgm_list.jsp?org=NSF&ord=rcnt

Title	Solicitation #	Due Date
International Research Experiences for Students (IRES) and Doctoral Dissertation Enhancement Projects (DDEP) - OISE	04-036	DDEP anytime; IRES 2/15 & 9/15/08
International Research and Education in Engineering (IREE) (Early Career) - OISE	Dear Colleague Letter	
International Research Fellowship Program (IRFP) - OISE	06-582	—
NSF Graduate Teaching Fellows in K-12 Education (GK-12) (<i>K-12 exposure for scientists</i>)	07-555	—
Graduate Research Fellowship Program (GRFP)	07-576	11/1/07

Check NSF's funding pages!

Other open funding opportunities

http://www.nsf.gov/funding/pgm_list.jsp?org=NSF&ord=rcnt

<i>Title</i>	<i>Solicitation #</i>	<i>Due Date</i>
Informal Science Education (ISE)	06-520	12/13/07
Software Development for Cyberinfrastructure (SDCI)	07-503	—
CISE Computing Research Infrastructure (CRI)	06-597	—
Math and Science Partnership (MSP)	06-539	—
Science and Society (S&S)	05-508	2/1 & 8/1/08
Control Systems Program	—	2/15/08
Applied Mathematics	—	11/15/07
GRAVITATIONAL PHYSICS	—	9/24/08

Check NSF's funding pages!

NSF open funding opportunity

Cyber-Enabled Discovery and Innovation (CDI)

<http://www.nsf.gov/crssprgm/cdi/>

Letter of Intent Window: October 30, 2007 - November
30, 2007

CDI seeks ambitious, transformative, multidisciplinary research proposals within or across the following three thematic areas:

- **From Data to Knowledge:** *enhancing human cognition and generating new knowledge from a wealth of heterogeneous digital data;*
- **Understanding Complexity in Natural, Built, and Social Systems:** *deriving fundamental insights on systems comprising multiple interacting elements; and*
- **Building Virtual Organizations:** *enhancing discovery and innovation by bringing people and resources together across institutional, geographical and cultural boundaries.*

Check NSF's funding pages!