

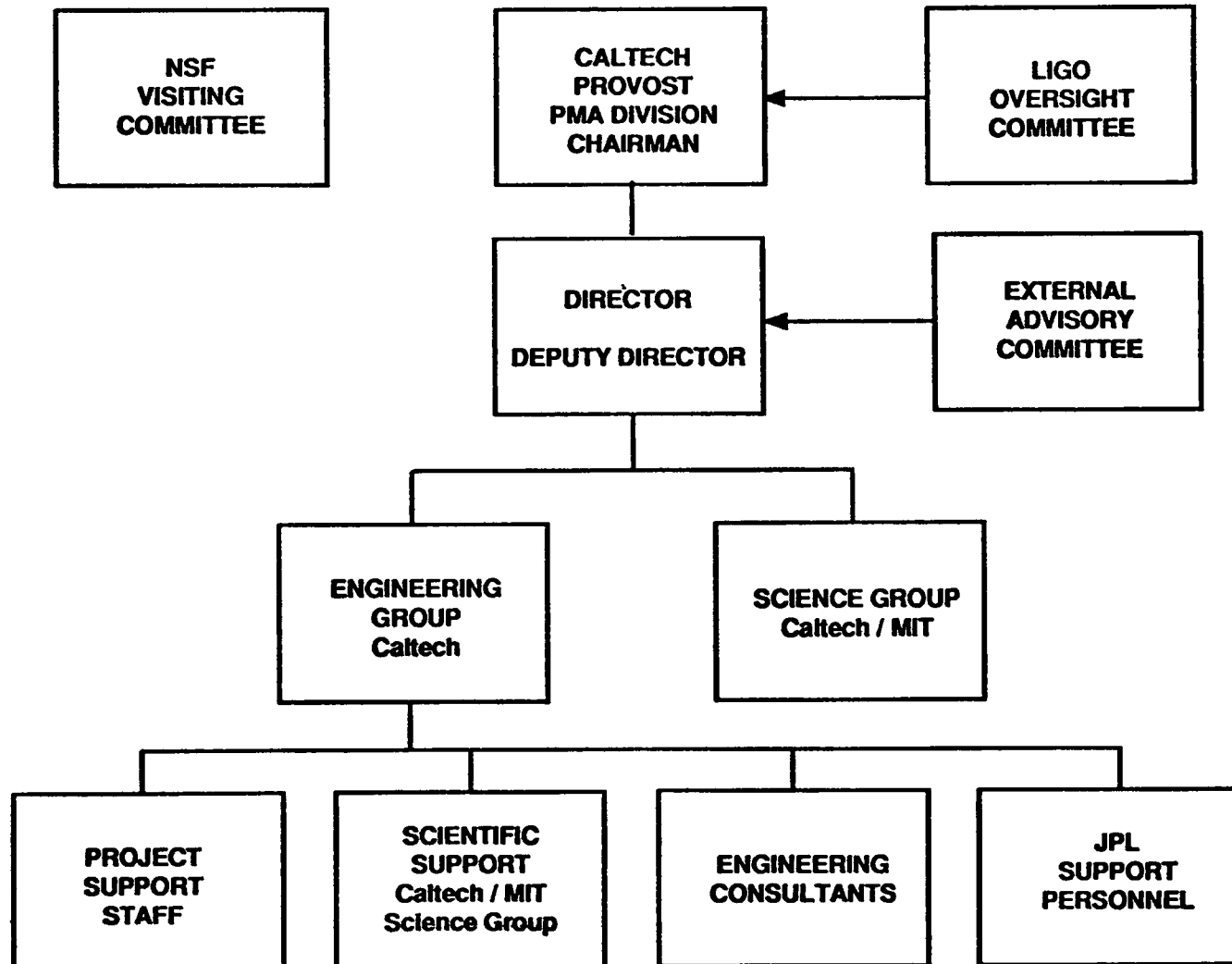
ORGANIZATION AND STAFFING

R. Vogt

December 11, 1992

ORGANIZATION AND STAFFING

LIGO PROJECT



ORGANIZATION AND STAFFING

- LIGO Personnel
 - Scientists: 14
 - Engineers: 10
 - Technicians: 5
 - Administrative Support: 5
 - Graduate Students: 9
 - Undergraduate Students
(academic year): 3
(summer): 12

ORGANIZATION AND STAFFING

- **Management Team**

 - R. Vogt, Director**

 - S. Whitcomb, Deputy Director and Project Scientist**

 - W. Althouse, Chief Engineer**

 - F. Raab, Science Manager, Caltech**

 - R. Weiss, Science Manager, MIT**

- **Chief Engineer directs activities of engineers and part of administrative support staff (subcontracts, finance)**
- **Science Managers coordinate and support activities of scientists at Caltech or MIT**
- **Project Scientist oversees science activities at Caltech and MIT**
- **All team members have direct access to members of management team, including director**

ORGANIZATION AND STAFFING

- **Formal Project Management**

- Weekly science team meeting at Caltech and MIT
Chair: Science Manager
- Weekly engineering/administrative team meeting at Caltech
Chair: Chief Engineer
- Weekly “scientists hour” with director
- Monthly Project Review: scientists, engineers, administrative staff, Caltech and MIT
Chair: Director

- **Task Management**

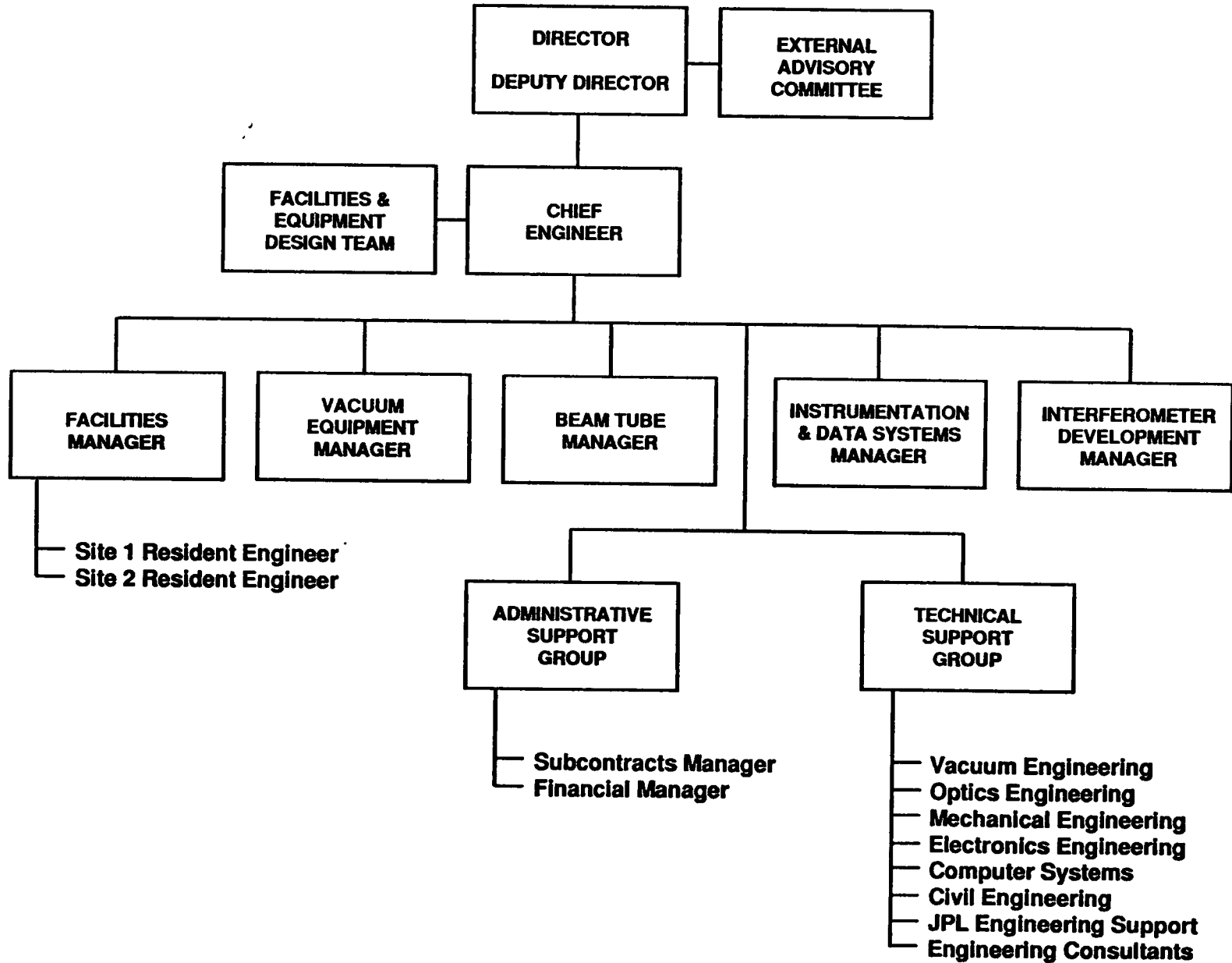
- Tasks typically managed by a Cognizant Scientist and a Cognizant Engineer
- Additional team members assigned to task as needed
- Oversight via regular weekly meetings and formal design reviews

- **Caltech and MIT team members operate as fully integrated team.**
Interactions through:

- e-mail
- conference calls
- individual calls
- monthly reviews
- special purpose meetings
- unified computing environment

ORGANIZATION AND STAFFING

LIGO CONSTRUCTION



ORGANIZATION AND STAFFING

- Existing staffing will continue to be fine tuned
- Unfilled positions:
 - Resident Site Engineers
 - Digital Electronic Engineer
 - Technicians for IF construction
- Unfilled critical positions:
 - Leader of design/construction of control and data system, and support staff
- Principal problems with staffing and team morale:
 - Uncertainty of project future
 - Absence of buffer against frequent changes (budget, schedule, tasks) dictated by the outside
 - University environment does not allow shifting of staff on/off project in response to these changes

LIGO STAFF

SCIENTISTS

Alex Abramovici	Senior Scientist
Jordan Camp	Scientist
Yaron Hefetz	Scientist
Andy Kuhnert	Scientist
Fred Raab	Asst. Professor, Science Manager (Caltech)
Rick Savage	Scientist
David Shoemaker	Senior Scientist
Lisa Sievers	Senior Scientist
Bob Spero	Senior Scientist
Kip Thorne	Professor
Robbie Vogt	Director
Rai Weiss	Professor, Science Manager (MIT)
Stan Whitcomb	Deputy Director and Project Scientist
Mike Zucker	Senior Scientist

ENGINEERS

Bill Althouse	Chief Engineer
Fred Asiri	Civil Engineer
Jake Chapsky	Electronics Engineer
Lawrence Chu	Assoc. Electronics Engineer
Greg Hiscott	Sr. Computing Analyst
Tim Howard	Project Engineer
Larry Jones	Mechanical Engineer
Doug Jungwirth	Optics Engineer
Boude Moore	Vacuum Engineer
Karl Reithmaier	Mechanical Engineer

ADMINISTRATIVE SUPPORT

Cindy Akutagawa

Betty Behnke

Dorothy Lloyd

Susan Merullo

Irena Petrac

Financial Coordinator

Administrative Assistant

Executive Secretary

Executive Secretary

Subcontracts Manager

TECHNICIANS

Tom Evans

Yehuda Kommemi

Oliver McCullough

Robert Sass

Steve Vass

Electronics Technician

Engineering Aide

Senior Electronics Technician

Lab Technician

Senior Lab Specialist

GRADUATE STUDENTS

John Carri

Joe Giaime

Aaron Gillespie

Joe Kovalik

Brian Lantz

Torrey Lyons

Nergis Mavalvala

Martin Regehr

Partha Saha