

**TRANSPARENCIES**  
**from the**  
**GRAVITATIONAL WAVE**  
**INTERNATIONAL COMMITTEE (GWIC)**  
**MEETING 2**

LIGO Site  
at  
Livingston, Louisiana

*22-23 April 1998*

LIGO-G980073-00-M

Gravitational Wave International Committee (GWIC) Meeting 2  
LIGO Livingston, Louisiana Site  
April 22<sup>nd</sup>-23<sup>rd</sup>, 1998

AGENDA - (Updated 4/21/98)

**Wednesday, April 22, 1998**

- 8:00 - 8:45 Van transportation from the Hampton Inn hotel in  
Baton Rouge to the Livingston Site (leave at 8:00 am)
- 9:00 - 9:15 Welcome and Orientation (Coles) **LIGO-G980073-01-M**
- 9:00 - 10:30 Livingston Site Tour (Coles)
- 10:30 - Morning Break
- 10:30 - 12:40 Scientific Meeting Coordination (Finn)  
10:30 - 11:20 General Discussion
- a. What standing meetings should be supported by community? Topics, size, frequency, and location.
  - b. What control should GWIC exercise over meeting organization? Scientific content, international profile and calendar coordination.
  - c. How do we exercise control to limit and coordinate community meetings?
- 11:20 - 12:40 Meeting Status Reports
- 11:20 - 12:00 Amaldi '99 (Meshkov) **LIGO-G980073-02-M**
- 12:00 - 12:20 GWDAAW '98 (Finn) **LIGO-G980073-03-M**
- 12:20 - 12:40 Moriond '99 (Meshkov/Brillet) **LIGO-G980073-04-M**
- 12:40 - 12:50 2<sup>nd</sup> TAMA Workshop (Fujimoto) **LIGO-G980073-05-M**
- 12:50 - 1:30 Working Lunch - catered/on-site  
Discussion of Joint GWIC/PAC Meeting (Barish)
- 1:30 - 2:00 GRAVITAS (Stebbins) **LIGO-G980073-06-M**  
(GRAVitational-wave InTernational ASSociation)

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**Wednesday, April 22, 1998 – agenda continued**

- 2:00 - 2:10            Large Scale Cryogenic Interferometric Gravitational Wave Telescope (Kuroda) **LIGO-G980073-07-M**
- 2:10 - 3:25            Cryogenic Resonant Detectors (Hamilton)  
Program status, future plans, and international collaborative aspects. **LIGO-G980073-08-M**
- 2:10 - 2:25            Status and prospects of ALLEGRO and of the data exchange under the IGEC agreement;  
Proto-TIA: Progress towards a spherical Detector (Hamilton)
- 2:25 - 2:40            Status and prospects of EXPLORER and Nautilus;  
R&Ds towards a spherical detector (Pizzella) **LIGO-G980073-09-M**
- 2:40 - 2:50            Status and prospects of NIOBE and of R&Ds of common interest with itfs (Blair) **LIGO-G980073-10-M**
- 2:50 - 3:00            Status and prospects of AURIGA and R&Ds on transducers for bars and spheres (Hamilton)
- 3:00 - 3:10            Status and prospects of GRAIL (Amersfoot) **LIGO-G980073-12-M**
- 3:10 - 3:25            Discussion on:
- Studies and R&Ds of common interests for advanced systems (noise, creep, etc.)
  - Common studies and R&Ds for data analysis
  - Relevance of studies on cosmic rays induced noise
- The GWIC may consider issuing a statement of support  
For acoustic detectors concerning:
- Continuing present bar network observations and implementing upgrades
  - R&D for a spherical detector (underground ?)
  - Favor exchange of young scientists and sharing
  - Of technologies between the two communities
- 3:25 - 3:40            Afternoon Break
- 3:40 - 4:00            Laser Interferometer in Space (Bender)  
(LISA): Program status, future status, future plans, and international collaborative aspects. **LIGO-G980073-13-M**

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**Wednesday, April 22, 1998 – agenda continued**

4:00 - 4:30

Theorists Role in GWIC (Barish)

There are four arguments in favor of adding standing member(s) to GWIC drawn from the theoretical relativity and astrophysics community:

1. They can provide valuable advice and perspective during the planning and organization of scientific conferences;
2. Representatives of these communities do not have the same institutional interests that the lab directors, who form the mainstay of GWICs membership, have; thus, they can be seen by the wider community as speaking less from institutional self-interest;
3. They can provide valuable advice and assistance in originating and framing GWIC Statements arguing for projects and resources;
4. They provide a liaison to important communities that have not been well integrated into the detection efforts. A concrete proposal for adding two new standing members to GWIC, one chosen from the astrophysics community and one from the theoretical relativity community, will be presented to form a context for the discussion. Unlike the other GWIC members, who represent laboratories with significant on-going gravitational wave detection efforts, these will be fixed-term appointments made by GWIC, with advice from representative organizations in the theoretical astrophysics and relativity communities.

4:30 - 5:30

GWIC Governance (Barish)

GWIC has a charter; however, it does not have officers upon whom rest the responsibility for meeting organization and who can act as organization spokespersons. A proposal for GWIC governance will be presented for general discussion, followed by a recommendation that a sub-committee be charged to develop a more detailed proposal for the GWIC to consider at its next meeting.

5:30 – 6:30

Private Mtg. (Southeastern Louisiana Univ./Barish/Sanders/Coles)

6:30 -

GWIC Dinner - On-Site - Crawfish Boil

Gravitational Wave International Committee (GWIC) Meeting 2  
LIGO Livingston, Louisiana Site  
*April 22<sup>nd</sup>-23<sup>rd</sup>, 1998*

AGENDA

**Thursday, April 23, 1998**

Joint GWIC/PAC Meeting

- 8:00 - 8:45 Van transportation from the Hampton Inn hotel in  
Baton Rouge to the Livingston site (leave at 8:00 am)
- 9:00 - 12:00 International Collaborative Efforts -  
9:00 - 9:30 Sapphire Test Masses (Whitcomb) -  
9:30 - 10:00 Common Data Formats (Lazzarini) -  
10:00 - 10:30 Optical Measuring, Testing, and Development (Billingsley) -  
10:30 - 11:00 Morning Break  
11:00 - 11:30 GEO/VIRGO Collaborative Work (Brillet/Danzmann) -  
11:30 - 12:30 International Collaboration on Data Analysis (Weiss)
- 12:30 - 2:30 Joint Working Lunch and Discussion - GWIC and PAC  
Structuring LIGO as an International Collaboration  
(Bill Fraser/Barry Barish)  
Issues that will arise in this discussion include MOUs  
for non-U.S. funded members of the LSC and NSF rules  
regarding intellectual property.
- 2:30 - 5:00 GWIC Departs for Tour of CB&I Factory and LSU  
Allegro Detector Facilities (Johnson)
- 6:30 - Joint Dinner GWIC/PAC in Baton Rouge  
at Brunet's Cajun Restaurant

# GWIC Meeting Agenda

22 April 1998

- 9:00 AM Welcome, orientation & lab tour M. Cdes
- 10:30 AM Scientific Meeting Coordination S. Finn
- 10:30 AM-11:20 AM General discussion
- 11:20 AM-12:00 PM Amaldi Mtg Status Report S. Meshkov
- 12:00 PM - 12:20 PM GWDAW 98 Status Report S. Finn
- 12:20 PM - 12:40 PM Moriond 99 Status Report S. Meshkov/A. Brilli
- 12:40 PM Lunch
- 1:30 PM GRAVITAS R. Stebbins
- 2:00 PM Cryogenic Acoustic Detectors B. Hamilton
- 3:15 PM
- 3:30 PM LISA P. Bender/R. Stebbins
- 3:50 PM Theorists & GWIC B. Barish
- 4:30 PM Governance B. Barish

# Gravitational Wave International Committee (GWIC) Meeting 2

LIGO Livingston, Louisiana Site

*April 22<sup>nd</sup>-23<sup>rd</sup>, 1998*

## ATTENDANCE LIST

### GWIC Members:

Barry Barish (Caltech - LIGO)  
Peter Bender (JILA/University of Colorado - LISA)  
David Blair (University of Western Australia - NIOBE)  
Alain Brillet (VIRGO)  
Karsten Danzmann (University of Hannover -GEO 600)  
Sam Finn (Northwestern University/Caltech - LIGO)  
Masa-Katsu Fujimoto (National Astronomical Observatory - TAMA 300)  
Adalberto Giazotto (INFN - VIRGO)  
James Hough (University of Glasgow - GEO 600)  
Yoshihide Kozai (National Astronomical Observatory - TAMA 300)  
Guido Pizzella (University of Rome "Tor Vergata")  
John Sandeman (Australian National University - ACIGA)  
Gary Sanders (Caltech - LIGO)  
P.W. Van Amersfoort (NIKHEF - GRAIL)  
William Hamilton (Louisiana State University - ALLEGRO)  
Massimo Cerdonio (University of Padua - AURIGA) (CANCELLED)

### Invited Observers:

Marcia Bartusiak (NAS – Science Writer)  
David Berley (NSF)  
Alan Coates (PPARC)  
Harold Collins (KES)  
Bob Eisenstein (NSF)  
Richard Isaacson (NSF)  
Kazuaki Kuroda (Institute for Cosmic Ray Research, University of Tokyo - TAMA 300)  
Robin Stebbins (University of Colorado - JILA)

### Livingston Site Staff:

Cecil Franklin	
Jonathan Kern	TOTALS:
Richard Riesen	
Allen Sibley	16 GWIC Members
Gerry Stapfer	8 Invited Observers
Kerry Stiff	8 Staff Employees
Juilien Svoboda	32 - Total Attendance for GWIC Meeting
Bonnie Wascomb	

# Gravitational Wave International Committee (GWIC) Meeting 2

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*April 22<sup>nd</sup>-23<sup>rd</sup>, 1998*

## GWIC Dinner

*Wednesday, April 22<sup>nd</sup>, 1998*

*Supplied by - Catering Plus*

Crawfish Boil - Served On-Site

6:30 pm

All GWIC Members, Invited Observers, and Livingston Site Staff will attend the Crawfish Bowl (for a total of 32).

### Additional Attendees to GWIC Dinner

Sally Clausen (President, Southeastern Louisiana University)

Willie Graves (Livingston Parish Sheriff)

Randy Moffet (Provost, Southeastern Louisiana University)

Tom Nash (PAC Member from Fermilab)

Rogers Pope (Superintendent of Schools, Livingston Parish)

Steve Ragan (Dean, College of Education, Southeastern Louisiana University)

Abe Seiden (PAC Member from University of California, Santa Cruz)

Skip Smart (Livingston Economic Development Council)

Dewey Ratcliff (Parish President)

Guest - To Be Determined (Physics Department, Southeastern Louisiana University)



Gravitational Wave International Committee (GWIC) Meeting 2  
*and*  
The LIGO Program Advisory Committee (PAC4) Meeting

LIGO Livingston, Louisiana Site  
*DINNER INFORMATION*  
*Combined GWIC/PAC4 Dinner on Thursday*

*April 23<sup>rd</sup>, 1998*  
*6:30 pm*

*Brunet's Cajun Restaurant*  
135 Flannery Road  
Baton Rouge, LA  
Phone No: (504) 272-6226

Directions to restaurant from Livingston site:

From Livingston site, return to Highway 190.

Turn Right on 190.

Travel about 20 miles (going back into Baton Rouge) -

- pass through the towns of Walker and Denham Springs -

- cross over Amite River Bridge and go Flannery  
(which is the 3rd red light).

- Turn left on Flannery.

Brunet's is the second building on the left.

Gravitational Wave International Committee (GWIC) Meeting 2  
*and*

The LIGO Program Advisory Committee (PAC4) Meeting

LIGO Livingston, Louisiana Site

*Van Drivers*

The following individuals will pick up people every morning at the Hampton Inn at 8:00 am and return them to the hotel in the evening. These van drivers will also be responsible for the site tours, and the tours the CB&I Factory and LSU Facilities, and for getting people to/from the dinners. Included are the arrival/departure times of the van drivers from out-of-state. You may obtain a ride from them to/from the airport if your flight coincides with theirs. The remaining van drives will take groups of people to/from the hotel or the airport on Thursday/Friday.

**Wednesday, April 22**

9:00 am – 10:30 am                      Livingston Site Tour for 23 people  
(GWIC members and invited guests)

Gary Sanders (arrives 4/21 Delta #1278 @ 9:16 pm, departs 4/24 AA # 5092 @ 5:20 pm)  
Allen Sibley  
Gerry Stapfer

**Thursday, April 23**

2:30 pm – 5:30 pm                      Tour of CB&I Factory and LSU Facilities  
for 23 people (GWIC/guests)

Mark Coles  
Cecil Franklin  
Fred Raab (arrives 4/22 Delta # 1115 @ 12:40 pm, departs 4/24 Delta #329 @ 8:00 am)  
Gary Sanders  
Allen Sibley  
Gerry Stapfer  
Juilien Svoboda

**Friday, April 24**

8:00 am – 9:30                              CB&I Tour and Livingston Site Tour  
for 33 people (PAC4 members/invited guests)

Gary Sanders  
Allen Sibley  
Gerry Stapfer

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*Note 1, Linda Turner, 04/30/98 10:09:19 AM*  
LIGO-G980073-01-M

*Note 2, Linda Turner, 04/30/98 10:10:02 AM*  
LIGO-G980073-02-M

*Note 3, Linda Turner, 04/30/98 10:10:22 AM*  
LIGO-G980073-03-M

*Note 4, Linda Turner, 04/30/98 10:10:55 AM*  
LIGO-G980073-04-M

*Note 5, Linda Turner, 04/30/98 10:11:16 AM*  
LIGO-G980073-05-M

*Note 6, Linda Turner, 04/30/98 10:12:05 AM*  
LIGO-G980073-06-M

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*Note 7, Linda Turner, 04/30/98 10:12:38 AM*  
LIGO-G980073-07-M

*Note 8, Linda Turner, 04/30/98 10:13:18 AM*  
LIGO-G980073-08-M

*Note 9, Linda Turner, 04/30/98 10:13:42 AM*  
LIGO-G980073-09-M

*Note 10, Linda Turner, 04/30/98 10:14:12 AM*  
LIGO-G980073-10-M

*Note 11, Linda Turner, 04/30/98 10:15:12 AM*  
LIGO-G980073-12-M

*Note 12, Linda Turner, 04/30/98 10:16:23 AM*  
LIGO-G980073-13-M