

CERN LVC workshop roundtable (what's coming next?)

Sheila Rowan

Chair, Gravitational Wave
International Committee



GWIC

Gravitational Wave International Committee

What is GWIC (Gravitational Wave International Committee)?

Body formed in 1997 to facilitate international collaboration and cooperation in the construction, operation and use of the major gravitational wave detection facilities worldwide

- Affiliated with the International Union of Pure and Applied Physics
 - From 1999 until 2011, GWIC recognized as a subpanel of PaNAGIC (IUPAP WG.4).
 - In 2011, GWIC was accepted by IUPAP as a separate Working Group (WG.11).

Links to the:

International Astronomical Union (IAU)

International Society for General Relativity and Gravitation (ISGRG)

The membership of GWIC represents **all of the world's active gravitational wave projects***, as well as other relevant communities, covering gravitational wave frequencies from nanohertz to kilohertz.

Current Chair: Sheila Rowan

Executive Secretary: David Shoemaker, Co-secretary: Stan Whitcomb

Full membership and more information at: <https://gwic.ligo.org/>



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The membership of GWIC represents **all of the world's active gravitational wave projects***, as well as other relevant communities, covering gravitational wave frequencies from nanohertz to kilohertz. Each project has either one or two members on GWIC depending on size.

ACIGA Bram Slagmolen

Einstein Telescope Michele Punturo

European Pulsar Timing Array Michael Kramer

GEO 600 Karsten Danzmann, Sheila Rowan

IndIGO Bala Iyer

KAGRA Yoshio Saito, Takaaki Kajita

LIGO Dave Reitze, Gabriela Gonzalez

LISA Neil Cornish, Bernard Schutz,
Ira Thorpe, Stefano Vitale,

NANOGrav Maura McLaughlin

Parkes Pulsar Timing Array George Hobbs

Spherical Acoustic detectors Odylio Aguiar

Theory Community Clifford Will

Virgo Fulvio Ricci, Jo van den Brand

IUPAP AC2 (ISGRG) Beverly Berger

IAU D1 Marica Branchesi

Executive secretary : David Shoemaker
Co- secretary: Stan Whitcomb

*no CMB community membership

GWIC 3G sub-committee

- 2009 GWIC formulated a roadmap with a 30 year horizon
- Foresaw:
 - essential to have a global network
 - upgrades to the Advanced detectors
 - a science case and technology pointing to future 3rd Generation GW observatories
 - GWIC is conscious of the **relevance of the global approach** to 3G matters
- A sub-committee has been formed to support this
 - Co-chairs: Dave Reitze, Michele Punturo
 - Members:
 - Federico Ferrini - EGO Director/interface to Virgo related organisations
 - Takaaki Kajita - KAGRA Director
 - Harald Lueck - interface to German agencies
 - Jay Marx - Big Project Expertise
 - David McClelland - interface to Australian agencies
 - Michele Punturo - ET Design Study Lead
 - David Reitze - LIGO Director/interface to NSF
 - Sheila Rowan - GWIC Chair



D. Shoemaker (secretary)

V. Kalogera

B. Sathyaprakash

} Expertise in astrophysics/analysis

GWIC 3G sub-committee mandate

WG : chairs V. Kalogera,
B. Sathyaprakash

“Examining the path to a future network of observatories / facilities, specifically:

1) Science Drivers for 3G detectors:

commission a study of ground-based gravitational wave science from the global scientific community

2) Coordination of the Ground-based GW Community:

develop and facilitate coordination mechanisms

3) Networking among Ground-based GW Community:

organize and facilitate links between planned global 3G projects and other relevant scientific communities

4) Agency interfacing and advocacy:

identify and establish a communication channel with funding agencies

WG: chairs J. Marx, F.
Ferrini

5) **Investigate governance schemes**

- The subcommittee should provide a preliminary report and set of proposed actions recommendations to GWIC no later than the 2017 GWIC meeting.
- Subsequent reports should be delivered future GWIC meetings.