

Communicating with and between funding agencies

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GWIC Chair

Dawn IV meeting

Amsterdam 2018

4. Agency Interfacing and Advocacy Subcommittee

Overseen by GWIC Chair

Mission:

- identify and establish a communication channel with funding agencies who currently or may in the future support ground-based GW detectors;
- communicate as needed to those agencies officially through GWIC on the scientific needs, desires, and constraints from the communities and 3G projects structured in a coherent framework;
- serve as an advocacy group for the communities and 3G projects with the funding agencies.

Landscape

- Relevant funding agency bodies
 - Individual national agencies (you all know your own and are interacting with them)
 - Relevant agency groupings:

Europe: APPEC - 'Astro-particle Physics European Consortium'

International:

GWAC 'Gravitational Waves Agency Correspondents'

GSO 'Group of Senior Officials'

APIF 'Astro-particle Physics International forum'

Who is/are ApPEC? - created in 2012 (following 2001)

Antonio Masiero (GA Chair)	INFN	Italy
Job de Kleuver (General Secretary)	NWO	Netherlands
Teresa Montaruli (GA Deputy Chair)	Unige	Switzerland
Catherine De Clerq	FWO	Belgium
Laurent Favart	FNRS	Belgium
Ivan Stekl	IEAP-CTU	Czech Republic
Panu Jalas	OSI	Finland
Anne-Isabelle Etienvre	CEA	France
Berrie Giebels	CNRS IN2P3	France
Christian Stegmann	DESY	Germany
Johannes Blümer	KIT	Germany
Manolis Plionis	NOA	Greece
Luke Drury	DIAS/RIA	Ireland
Fernando Ferroni	INFN	Italy
Stan Bentvelsen	Nikhef	The Netherlands
Michiel van den Hout	NWO	The Netherlands
Mario Pimenta	LIP	Portugal
Nicolae Marius Marginean	IFIN-HH	Romania
Victor Matveev	JINR	Russia
Mario Martinez	IFAE	Spain
Antonio Bueno	University of Granada	Spain
Lars Bergström	VR	Sweden
Pascal Fischer	SNSF	Switzerland
Tony Medland	STFC	UK
Laura Baudis (Interim SAC Chair)	SAC	

Role of ApPEC

- See talk from Antonio yesterday
 - Consortium focussed on joint actions to support Astro-particle physics in Europe
 - Appointments a Scientific Advisory Committee to maintain a Scientific roadmap
 - Can choose to create financial instruments to support strategic areas ('virtual common pot')
 - Can act via influence to support projects

Who are GWAC (Gravitational Agency Correspondents)?

Informal inclusive grouping of agency representatives associated with support of the gravitational waves field; creation stimulated by NSF

- EG: invitee list to most recent GWAC/GWIC telecon:

ARC (Stephen Buckman)

In2p3 (Berrie Giebels)

Innovation Canada (Guy Levesque)

DFG (Karin Zach; Stefan Krueckeberg; Wolfgang Muessel)

DAW, NIC (Arun Srivastava; Praveer Asthana)

ESA (Guenther Hasinger; Fabio Favata)

INFN (Antonio Masiero)

Conacyt (Julia Tagüeña Parga)

STFC (Janet Seed, Tony Medland, Jenny Hiscock)

NWO (Job de Kleuver)

NASA (Paul Hertz; Rita Sambruna)

NSF (Denise Caldwell, Mark Coles, Bradley Keister, Saul Gonzalez, Pedro Marronetti, Anne Kinney, Matthew Hawkins)

Formal GWIC interactions by invitation

- Telecons with presentations to GWAC, (Nov 2016, Jan 2018)
 - (Rowan, Shoemaker, Reitze, Punturo)
- Presentation at APPEC General Assembly, Barcelona (Dec 2017)
 - (Rowan, + Punturo, van den Brand)

GWIC presented the status of community planning along with some recommendations to GWAC/APPEC for support actions

The GWIC 3G subcommittee activities are ‘funding limited’ – limited largely to working through telecons and e-mail.

- The Australian Research Council (ARC) committed approx. AUD 600K to support participation of Australian scientists in global 3G preparatory activities
- **GWIC recommended:** GWAC/APPEC should consider and identify support mechanisms for the community in its respective regions to participate in the 3G activities which are essential to feed into the major international roadmapping and landscaping exercises
 - NSF has responded with support for US participation,
 - APPEC response?
- **GWIC recommended:** GWAC endorse and support a joint Dawn/ET workshop in 2018 to advance coordination of Euro-US community-agency planning
 - DAWN IV - expanded with enhanced Euro-US-Australasian attendance
- **GWIC recommended:** GWAC consider playing a role in collaborating with scientists in the study and definition of possible governance schemes in the 3G detector era
 - GWIC appetite for this continues, very useful discussions at this meeting
 - Aim to iterate with GWAC on draft governance report before finalising (?)

- **GWIC:** Welcomes the statement by APPEC European APPEC Roadmap “European Astroparticle Physics Strategy 2017-2026”
<http://www.appec.org/roadmap/>

APPEC recommendations:

- *“With its global partners and in consultation with the Gravitational Wave International Committee (GWIC), APPEC will define timelines for upgrades of existing as well as next-generation ground-based interferometers. APPEC strongly supports further actions strengthening the collaboration between gravitational-wave laboratories.*
- *It also strongly supports Europe’s next-generation ground-based interferometer, the Einstein Telescope (ET) project, in developing the required technology and acquiring ESFRI status.*
- *In the field of space-based interferometry, APPEC strongly supports the European LISA proposal.”*

GSO ('Group of Senior Officers)

- Established to “*informally explore cooperation opportunities in Global Research Infrastructures*” see:

<https://ec.europa.eu/research/infrastructures/index.cfm?pg=gso>

- Not always funders per se, but senior advisors to ministries etc
 - Composed of representatives from Australia, Brazil, Canada, China, the European Commission, France, Germany, India, Italy, Japan, Mexico, Russia, South Africa, UK and USA.
- The GSO was set up to:
 - identify Research Infrastructures of global interest
 - analyse how countries evaluate and prioritise the construction of large scale Research Infrastructures
 - identify possible new areas of cooperation
 - promote transnational access to Global Research Infrastructures
 - foster “distributed infrastructures”
 - identify measures to ensure that scientific data is appropriately handled, stored and accessed
 - adopt a common understanding for the joint lifecycle management of global research infrastructures

GSO ('Group of Senior Officers)

- **11th GSO Meeting May 21-25 2018**
- Hosted by United States (NSF & DOE)
- NSF's National High Magnetics Field Lab (Maglab) Florida State University, **Included visit to LLO; presentation by Italian rep. with offer to hear more about GW global infrastructure planning**
- **Possible opportunity to interact further with this group coming up in Nov this year – details TBD**

Time Scales for GWIC 3G Subcommittee's Work

- Subcommittees will work over the next few months to assemble their reports to have a preliminary report and set of recommendations
- Preliminary report will be broadly circulated for comment and input among the relevant communities.
- Interim report not later than December 2018 delivered to GWIC , thereafter to relevant communities and GWAC (and thus APPEC/GWAC's constituting agencies)
- Parts of this work inform case for ET inclusion on ESFRI Roadmap, science papers for Decadal
- Goal: Final report mid-2019
- Need to consider carefully the path after than in advocacy for the report recommendations

Summary:

- Set of actions here provide a framework to enhance 3G profile and accelerate interaction between international projects and global agencies
- As a community we need to be well organised to have clear, coherent input to the variety of foreseen international roadmapping exercises