

WG.9 & GSF Working Group Recommendations



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Australian Government
Australian Research Council

Symposium on Nuclear Physics & Nuclear Physics Facilities
TRIUMF : July 2nd 2010



WG.9: IUPAP Working Group on International Cooperation in Nuclear Physics

- **Initially a sub-committee of C12 (Chair: A W Thomas)**
 - with S. Nagamiya as Chair of C12
- **Formally created as a Working Group (#9) of IUPAP at its General assembly in South Africa in October 2005**

Mandate : www.iupap.org/wg/

- 1) provide a description of the landscape of key issues in Nuclear Physics research for the next 10 to 20 years
- 2) produce (maintain) a compendium of facilities existing or under development worldwide
- 3) establish a mapping of these facilities onto the scientific questions identified above
- 4) identify missing components that would have to be developed to provide an optimized, comprehensive network of international facilities
- 5) explore mechanisms and opportunities for enhancing international collaboration in nuclear science
- 6) identify R/D projects that could benefit from international joint effort
- 7) serve as a source of expert advice for governmental or inter-governmental organizations in connection with efforts to coordinate and promote nuclear science at the international level
- 8) serve as a forum for the discussion of future directions of nuclear science in the broadest sense
- 9) document the cross disciplinary impact of Nuclear Physics and of nuclear facilities and identify mechanisms for expanding (fostering) cross disciplinary research

Current Membership of WG.9 (2009-2011)

Anthony W. Thomas (University of Adelaide, Australia) Chair
Willem T.H. van Oers (University of Manitoba/TRIUMF, Canada) Secretary
Samuel H. Aronson (BNL, USA)
Brian R. Fulton (York University, UK) NuPECC Past-Chair
Sidney Gales (IN2P3/GANIL, France)
C. Konrad Gelbke (NSCL, USA)
Alinka Lepine-Szily (Universidade de Sao Paulo, Brazil)
Victor A. Matveev (INR-Moscow, Russia)
Dong-Pil Min (Korean Research Council)
Tohru Motobayashi (RIKEN, Japan)
Shoji Nagamiya (J-PARC, Japan)
Jean-Michel Poutissou (TRIUMF, Canada)
Dan-Olof Riska (University of Helsinki, Finland) Chair IUPAP-C12
Guenther Rosner (University of Glasgow, UK) NuPECC Chair
Hideyuki Sakai (University of Tokyo, Japan) ANPhA Chair
Susan Seestrom (LANL, USA) NSAC Chair
Horst Stoecker (GSI, Germany)
Robert Tribble (Texas A&M, USA) NSAC Past-Chair
Wenlong Zhan (IMP-Lanzhou, PRC)

Produced IUPAP Report 41

A handbook of User Facilities World-wide, with short accessible overview of major research questions and how facilities address them
- currently being updated



Regional Cooperation

- **WG.9 recommendations led to:**
 - **Creation of the Asian Nuclear Physics Association (ANPhA) : currently 6 member countries (Sakai)**
 - **Charter of Santiago – creation of a Latin American organisation (Lepine-Szily)**

OECD Global Science Forum Working Group on Nuclear Physics

- Formed in March 2006 at the request of the United States
- Eleven OECD member countries plus the European Commission, two non-member countries, two inter-governmental organisations (CERN and JINR) and 3 representatives of WG.9 (Henning, Thomas, van Oers)
- Produced a “roadmap” for nuclear physics worldwide, published as an OECD report in October 2008

Recommendations – directly relevant here

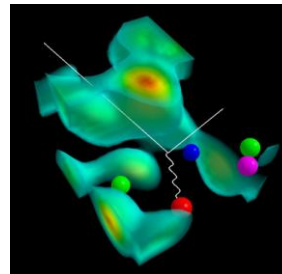
A forum should be established to discuss, on a regular and ongoing basis, national and regional science-based roadmaps and to articulate a global scientific roadmap for nuclear physics. It should be organised by the International Union of Pure and Applied Physics/Working Group 9 (IUPAG/WG9) and composed of representatives of WG9 itself, the major national and regional scientific planning bodies (e.g., Nuclear Science Advisory Committee [NSAC], Nuclear Physics European Collaboration Committee [NuPECC], Nuclear Physics Executive Committee of Japan [NPEC]) with proportionate participation from all other countries that are not members of one of the latter.

National, regional, and global planning should be done at the agency level among interested parties to optimize the science and international collaboration, taking into account the global scientific roadmap of the community. The establishment of a forum for nuclear physics funding agencies should be considered for discussing plans for new large scale facilities and for optimizing communication and cooperation at a global level.

**Formally referred to WG.9 for action by the Chair of the
OECD GSF (Hermann-Friedrich Wagner) in early 2009**

An Historic Meeting

- **This is the first gathering of the leaders of the largest scientific laboratories in our field with representatives of the major funding agencies**
- **It presents a wonderful opportunity for exchange of information and views; a chance to give meaning to the OECD GSF Working Group recommendations; and to further strengthen international cooperation**
- **Welcome and best wishes for a productive two days!**



Membership 2005-2008

Anthony W. Thomas (Jefferson Laboratory, USA) Chair
Willem T.H. van Oers (University of Manitoba/TRIUMF, Canada)
Secretary
Samuel H. Aronson (BNL, USA)
Richard F. Casten (Yale University, USA) NSAC Past Chair
Brian R. Fulton (York University, Great Britain) NuPECC Chair
Sydney Gales (GANIL, France)
Muhsin N. Harakeh (KVI, the Netherlands) NuPECC Past-Chair
Walter F. Henning (GSI, Germany) Chair of IUPAP-C12
Alinka Lepine-Szily (Universidade de Sao Paulo, Brazil)
Victor A. Matveev (INR, Russia)
Tohru Motobayashi (RIKEN, Japan)
Shoji Nagamiya (J-PARC, Japan) Past-Chair of IUPAP-C12
Jean-Michel Poutissou (TRIUMF, Canada)
Robert E. Tribble (Texas A&M, USA) NSAC Chair
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