

**IUPAP WG.9 Annual General Meeting (AGM) held at the South-
Eastern Universities Research Association (SURA) Headquarters,
Washington, DC, June 5, 2015**

Draft Minutes:

Present: Robert E. Tribble – Chair, Texas A&M, USA
Anthony W. Thomas – Past-Chair, U. of Adelaide, SA, Australia
Willem T.H. van Oers – Secretary, TRIUMF/U. of Manitoba, Canada
Jonathan Bagger – Director TRIUMF, Canada
Angela Bracco – Chair NuPECC, INFN-Milano, Italy
Umberto Dosselli – Director Laboratori Nazionali di Frascati, Italy
Hideto En’yo – Director RIKEN Nishina Center for Accelerator-Based
Science, Japan
Donald F. Geesaman – Chair NSAC, ANL, USA
Dominique Guillemaud-Mueller – Deputy-Directore IN2P3/CNRS, France
Thomas Glasmacher – Director FRIB, USA
Kobus Lawrie – Acting Director i’Themba Laboratories, Zuid-Afrika
Alinka Lepine-Szily – Co-Chair ALAFNA, U. de Sao Paulo, Brazil
Hugh Montgomery – Director Jefferson Laboratory, USA
Berndt Mueller – Associate-Directore BNL, USA
Naohito Saito – Director J-PARC, Japan
Wenlong Zhan – Vice-President Chinese Academy of Sciences, China

Regrets: Dong-Pil Min – Chair ANPhA, Seoul National University, Korea
Guenther Rosner – Past-Chair NuPECC, FAIR, Germany
Susan Seestrom – Past-Chair NSAC, USA
Karlheinz Langanke – Director pro-tem GSI, Germany
Yanlin Ye – Past-Chair ANPhA, Beijing University, China

Absent: Victor A. Matveev – Director JINR, Dubna, Russia
Dinesh Srivastava – Director VECC, Kolkata, India

Members of IUPAP C12 present as observers:

Ani Aprahamian, Notre Dame University, USA
Mahananda Dasgupta, Australian National University, ACT, Australia
Claes Fahlander, Lund University, Sweden
Wei-Ping Liu, CIAE, China
Reiner Kruecken, TRIUMF, Canada
Eugenio Nappi, INFN-Bari, Italy
Hideyuki Sakai, Past-Chair C12, RIKEN, Japan
Joachim Stroth, Secretary C12, Goethe Universitaet Frankfurt, Germany
Hirokazu Tamura, Tohoku University, Japan

Guests: Elizabeth Boston, NSERC, Canada
Abhay Deshpande, SUNY at Stony Brook, USA
Jerry P. Draayer, President and CEO of SURA, USA
Richard Garrett, ANSTO, Australia
Janet Seed, STFC, UK

Words of Welcome by the Chair Robert E. Tribble

Adoption of the Agenda

Approval of the Minutes of the last AGM held at GSI, Darmstadt on July 11, 2014

Current Membership of IUPAP WG.9:

On behalf of the Executive of IUPAP WG.9, the Chair welcomed as new member:

- Thomas Glasmacher, Director of FRIB at MSU replacing C. Konrad Gelbke, Director of NSCL at MSU.
- Horst Stoecker resigned as Director of GSI; Karlheinz Langanke is the Director pro-tem of GSI.
- Naohito Saito has become the Director of J-PARC
- As of August 1, 2015, Umberto Dosselli will be replaced by Pierluigi Campana as Director of Laboratori Nazionali di Frascati.

Following the Annual General Meeting at SURA Headquarters letters of thanks for their serving on the IUPAP Working Group 9 were send to Umberto Dosselli, C. Konrad Gelbke, and Horst Stoecker by the Chair.

The Executive has also been informed about the serious illness of Guenther Rosner.

IUPAP Council and Committee Chairs (C & CC) Meetings:

The most recent one was held in Trieste, Italy, May 2015. In the past IUPAP WG.9 reported at the C & CC meetings. Since no information regarding the latest C & CC meeting was received no report was submitted. The Secretary will contact the IUPAP Secretariat in order to be informed about future C & CC meetings.

With regards to the latter your Executive was informed on September 11, 2015, that the next meeting of the C & CC will take place at the end of October; a report on the activities of IUPAP WG.9 will be submitted.

The IUPAP General Assembly took place in Singapore at Nanyang Technological University, November 5-7, 2014. The Chair presented the IUPAP WG.9 report that had been submitted.

IUPAP Report 41:

Various attempts have been made to further update nuclear physics laboratory descriptions in IUPAP Report 41 with very few replies received. It was decided that nuclear physics laboratories with no defined users organization will be removed from the report. To note IUPAP Report 41 can be found on the website:

(<http://www.triumf.info/hosted/iupap/icnp/index.html>)

Proposed Charges to Users Groups in Support of the Operation of Facilities:

The discussions were initiated by the statement of Beatrix Vierkorn-Rudolph, Deputy Director General of the Federal Ministry of Education and Research (BMBF), Germany, in charge of large scale research facilities, made at the previous IUPAP WG.9 AGM at GSI, July 11, 2014: **FAIR should consider following the CERN model with regards to the costs of operations. The FAIR shareholder countries should pay 70% and the non-shareholder countries – 18% from the larger countries and 12% from the smaller countries of the latter – towards the costs of operations.**

It was remarked that FAIR in addition to CERN is not the only facility that has initiated procedures to recover the operating costs, e.g. the European Spallation Source. However, it is to be noted that IUPAP has a definite policy for not charging the Users or Users Groups for the operation of large scale science research facilities; see:

<http://iupap.org/wp-content/uploads/2013/12/>

[Recommendations22ndGeneralAssembly.pdf](#)

In light of the ongoing changes in the management of FAIR/GSI this agenda item was tabled for discussion at a future meeting of IUPAP WG.9.

FAIR/GSI - the Review of FAIR by the Rolf-Dieter Heuer Committee:

Joachim Stroth commented on the present management of GSI/FAIR with Ursula Weyrich the CEO of GSI and Karlheinz Langanke the Scientific Director of GSI, protem, until a joint Director of GSI and FAIR is appointed. The FAIR Council is due to meet this month (June). Georg Schuette, Staatssekretaer of the BMBF, is the Chair of the GSI Council since November 2014 and the German Government representative on the FAIR Council since December 2014; he has the responsibility within the German Federal Government for FAIR. He also initiated the Heuer review of FAIR and received its recommendations in February this year.

Reiner Kruecken, member of the Heuer review committee, commented on the recommendations presented to the Staatssekretaer Georg Schuette. The four scientific pillars for FAIR are: (1) Atomic, Plasma Physics, and Applications (APPA), (2) Compressed Baryonic Matter (CBM), (3) Nuclear Structure, Astrophysics and Reactions (NUSTAR), (4) antiProton ANnihilation, at Darmstadt (PANDA). The latter received the lowest ranking from the Heuer review committee. This has created a great deal of upheaval in the particle physics community (the PANDA Collaboration consists of 450 scientists from 17 countries and has been designing, building, and commissioning (parts of) the PANDA detector since 2004). IUPAP WG.9 has been approached to make known its position regarding the possible demise of the scientific research enterprise with PANDA. IUPAP WG.9 is **NOT** constituted as a scientific review committee. However, individual members may express their personal evaluation of the scientific merits of the

envisaged research program with PANDA. It is more appropriate for NuPECC, since PANDA is one of the strong positive recommendations in the last NuPECC Long Range Plan, to comment on the current situation. In fact a letter was sent (see attached [FAIR_NuPECC_Letter_20150529.pdf](#)).

NSAC and NuPECC Reports were incorporated in the presentations given during the Nuclear Science Symposium

Nuclear Science in South-America (Alinka Lepine-Szily)

Material: Slides

- ALAFNA is checking the possibility of becoming a group under CLAF
- Not a great deal of optimism about the future of the IF-SPU nuclear physics facility
- There are strong ties to the astronomy and astrophysics programs in Chile
- Would a concerted effort to discuss funding opportunities with government officials be of help?

Nuclear Science in Africa (Kobus Lawrie)

Material: Slides

- Most of nuclear science research is done in Zuid-Afrika
- A new low-energy tandem is being acquired
- A new facility for carbon dating is being setup on a 6 MeV tandem
- The iThemba cyclotron facility is still working on getting a 'C70' for isotope production and ISOL rare-isotope production
- The funding for the preliminary study is in place but follow-up funding not yet procured

Report from ANPhA (Weiping Liu)

Material: Slides

- ANPhA was established some six years ago to strengthen the collaboration among Asian nuclear scientists and to constitute a platform for discussing future nuclear science facilities and large scale instrumentation in Asia
- It is expanding its membership to include more Asian countries
- The report summarized the various accelerator based nuclear physics projects under construction (RIB in China, RAON in Korea, JUNA in China); the deep underground laboratories under construction in Australia, China, Korea, and Taiwan for dark matter searches and neutrino-less double beta-decay); accelerator driven sub-critical systems in China and Japan

Nuclear Physics for Medicine (Anthony W. Thomas)

The next International Nuclear Physics Conference, which will be held in Adelaide, SA, Australia, September 11 – 16, 2016 will include specific parallel sessions devoted to “Nuclear Physics and Medicine” and there will be a public lecture on this topic during the

conference. See also the recently published NuPECC Report “Nuclear Physics for Medicine” at the website: <http://www.nupecc.org> .

Nuclear Science Symposium:

The 2015 Nuclear Science Symposium was held at SURA Headquarters in Washington, D.C. on June 4, 2015.

Based on experiences gained from the previous Nuclear Science Symposium at LNF di Frascati in 2013 it was concluded that a better approach would be to have direct input from the Funding Agency representatives in the organization of future Nuclear Science Symposia.

In discussions with Timothy J. Hallman, Associate Director of Science for Nuclear Physics at the DoE, a two year cycle of the Nuclear Science Symposia (instead of a triennial timeframe) was adopted and the scientific program of the Symposium formulated. The Symposium presented an overview of current forefront nuclear science research being addressed or intended to be addressed together with the upgrading of current facilities and planned large new facilities in the three global areas – Asia, Europe, and the Americas. In addition there were three presentations on: ‘Neutrino Masses, Neutrino Mixing, Neutrino-less Double Beta-decay and the Deep Underground Science Laboratories (with emphasis on neutrino-less double beta-decay)’, ‘The Science Case for an Electron-Ion Collider’, and ‘The Science Programs of Rare-Isotope Beam Facilities’ ; (see the website:

<http://www.triumf.info/hosted/iupap/icnp/index.html> under ‘Meetings’

The Symposium concluded with an ‘in camera’ meeting of the government/funding agency representatives with as Chair Timothy J. Hallman, Associate Director for Nuclear Science at the DoE Office of Science, to discuss their individual perspectives. Those present in addition to the Chair were:

- Elisabeth Boston – Natural Sciences Research Council of Canada [NSERC]
- Richard Garrett – Australian National Nuclear Research and Development Organisation [ANSTO]
- Dominique Guillemaud-Mueller – Centre National de la Recherche Scientifique of France IN2P3/CNRS]
- Eugenio Nappi – Istituto Nazionale di Fisica Nucleare of Italy [INFN]
- Janet Seed – Science and Technology Facilities Council of the UK
- Wenlong Zhan – Chinese Academy of Sciences [IMP-CAS]

This it is hoped will lead to increasing mutual awareness of these agencies and eventually to cooperation in funding the future large scale nuclear science facilities.

Further information regarding the last item will be forthcoming shortly through reporting by Timothy Hallman, Associate Director for Nuclear Physics in the Office of Science at DoE.

Other initiatives by IUPAP WG.9:

A possible report from the Workshop “Nuclear Physics for Medicine” from next year’s INPC.

The IUPAP WG.9 executive was asked to comment on the closing on March 9, 2015, of the Meier-Leibnitz Laboratory, with its Tandem Accelerator for accelerator mass

spectroscopy and nuclear structure physics with the Q3D spectrometer (unsurpassed resolution), for environmental, and health and safety reasons. This is foremost an issue for the German physics community and for NuPECC. Since then the partners in the operation of the facility (Universitaet Muenchen and Technische Universitaet Muenchen) have been able to arrange for its continued operation.

The formation of an interim IUPAP Working Group on Accelerator Physics:

The formation of a IUPAP Commission on Accelerator Physics has been discussed for the first time at the International Particle Accelerator Conference, which was held in Kyoto, Japan, in 2010, at which time it was joined by the European Particle Accelerator Conference series. More recently Roy Rubinstein, secretary of ICFA, send a missive to the President of IUPAP asking for the establishment of such a Commission, one of the main arguments being that accelerator physics covers a very wide area from particle physics to nuclear physics to material sciences to nuclear medicine to industrial facilities and many of the accelerator physicists are not presented by any of the existing IUPAP Commissions. The IUPAP Secretariat in turn has asked various stake holders for nominations to form an interim Working Group. IUPAP C12 and IUPAP WG.9 will provide a combined set of nominations within the deadline set by IUPAP.

A slate of nominees has been send to IUPAP's Executive by both IUPAP WG.9 and IUPAP C12.

Date of the next IUPAP WG.9 meeting:

At the INPC 2016, September 11-16, in Adelaide, SA, Australia. Concerns were expressed about the long travel time required to the AGM of IUPAP WG.9 in 2016 for a one and a half day meeting. Possibly video-conferencing needs to be arranged.

The IUPAP WG.9 Nuclear Science Symposium ended with a working dinner.

Thanks are expressed to Jerry P. Draayer, President and CEO of SURA, and the staff of SURA for the kind hospitality provided during both the Symposium and the AGM.

TRIUMF, Vancouver, BC, June 30, 2015

Willem T.H. van Oers, Secretary of IUPAP WG.9