

## Minutes of the 6<sup>th</sup> ANPhA Board Meeting at Adelaide

4 Aug. 2012, Univ. Adelaide

Attendees: Yugang Ma, Yanlin Ye, Byung Geel Yu, Wooyoung Kim, Weiping Liu,  
Hirokazu Tamura, Shoji Nagamiya, Tohru Motobayashi, Anthony Thomas  
Regrets: Jiunn-Wei Chen, Guoqing Xiao, Takaharu Otsuka, Dao Tien Khoa, Bikash Sinha, Swaminathan  
Kailas, Dong-Pil Min, Suren Davaa  
Observer: Hideyuki Sakai, Angela Bracco, Gabriele-Elisabeth (Sissy) Koerner, Deqing Fang,  
Adi Paterson

1. Approval of the agenda
2. Introduction of new board members
  - Hirokazu Tamura (Japan, chair of Japan Executive Committee)
  - Byung Geel Yu (Korea, chair of Nucl. Phys. Division, Korean Physical Society)
  - ⇒ Approved.
  - Communication to Indian members. c.f. No member in C12.
  - For possible new members:
    - We continue the effort. Indonesia, Myanmar, Thailand
    - Also for New Zealand (through Anthony Thomas)
3. Minutes of previous meeting in Hanoi (Motobayashi)
  - Shoji Nagamiya continues to be board member, but will be replaced according to later discussions.
  - Takaharu Otsuka remains to be board member
  - For Don-Pil Min, we will wait for situation around him to be fixed.
  - Note that Min and Nagamiya are motive force of ANPhA. (Ye)
4. Chairman's business (Ye)
  - 1) NuPECC meetings: March 9, 2012, Milan
  - 2) IUPAP WG.9: Aug. 17, 2012, RIKEN-Japan
    - Long-range plan is for future of ANPhA
      - Projects in China / Korea
      - Update of national plans could be shared among ANPhA members. =>item 7
5. Reports from each member country/region on nuclear physics and facility activities.

<Japan>

J-PARC:

- T2K gave 6+1 electron-neutrino appearance. => theta\_13
- Pentaquark was not observed in  $\text{Pi}^- + \text{p} \Rightarrow \text{K}^- + \text{X}$  reaction.
- Damage by and recovery (Dec. 2011) from the earthquake.

- Coming 5 years: intensity upgrade / new beam-lines for neutron, muon, hadron / extension of Hadron Hall

#### RIBF:

- Many of the planned equipment were completed, but with lack of beam time
- Many new isotopes, isomers, lifetimes were found.
- Secondary reaction studies: in-beam gamma, interaction cross section, SHARAQ study
- EURICA / new equipment SAMURAI, SCRIT, Rare RI-Ring
- upgrade options: CNS with GRAPE (segmented gamma-array), SHARAQ (high-resolution spectrometer), CRIB (low-E RI beams)

#### RCNP:

- high-precision reaction spectroscopy w. Ring Cyclotron
- Double beta decay at Kamioka / Laser inverse Compton at Spring-8, development for mu-e conversion

#### < Korea >

##### Nucl. Phys. Division of KPS

- 250 members: 150 for low energy and application, 50 for high energy heavy ions, 50 for hadron physics

##### KoRIA in Deejeon: 200 MeV/u HI (RI) with several options

- Theory support in nuclear structure and reactions, nuclear astrophysics
- Phase 1: Technical design + construction: - 2017
- Leaderships of nuclear physicists are highly encouraged.

#### < China >

- major facilities: Beijing, Lanzhou
- government agencies: CAEA, CAS, MOST, MOE
- Joint program “973” was renewed for 2013-2016  
“New physics and technology at the limits of nuclear stability” by Y.L. Ye
- HI-13 at CIEA Beijing  
Reaction, structure, astrophysics
- CSR at Lanzhou  
RIB physics, reaction, decay on RIBLL  
Mass measurement at CSR for rp process
- CARR, research reactor at CIAE  
ISOL source
- upgrade and construction:  
BRIF: 100 MeV proton cyclotron  
SLEGS (laser Compton photon facility)  
 $10^{5-7}$  photon/s for nuclear physics / astrophysics  
CSNS, spallation neutron source from 2017  
HIAF at Ordos  
High-energy RI beams (proposed by IMP Lanzhou)  
400 MeV/u LINAC + tow rings (w. e-ring)

- Beijing ISOL
    - Merge of CARIF in CIAE and ImPUF in PKU
    - Two ISOLs (reactor and p,d LINAC) + LINACs (150 MeV/u)
6. Possible relation to AAPPS
    - AAPPS president asks ANPhA chair to be the chair of the division.
      - Division chair has freedom to nominate member (including ANPhA member).
      - The first task is to work with APPC12 program committee.
    - Formation of the AAPPS division of nuclear physics was agreed.
  7. Progress and plan for drafting “the future projects in Asia”.
    - Next ANPhA symposium should be on “future facility projects in Asia”
    - Collection of information of current facilities. (Motobayashi, Liu and Kim + Thomas)
  8. News from NuPECC (Angela Bracco)
    - two meetings in 2012
    - NPN editorial board
      - Ma from ANPhA
      - no more “correspondence” from the countries with board members
    - common initiative with EPS on outreach
    - EU projects
      - NuPNET towards transnational funding 2008-2011
      - A few pilot activities: detectors, development for accelerators
      - Action beyond NuPNET: discussed
      - ENSAR from 2011:
        - 7 trans-national facilities; 20 beneficiaries in 18 countries, 53 associated partners
        - Hadron Physics3 from 2012: 9M Euro for 3 years
        - ESFRI projects and new
        - FAIR: first step in 2017 / Spiral2: phase 1 from 2013
    - ELI in Bucharest: nuclear physics is included (one of the 3 ELI facilities)
      - High-resolution, high-intensity gamma beams by Laser inverse Compton scattering
    - Tiara for accelerator R&D infrastructures (towards EURISOL, European spallation source) on high power target / low beta superconducting accelerators
    - ESF (European Science Foundation)
      - ⇒ Will be closed in 2015, but will keep the board.
    - Strategic plan of CERN
      - Concerning QGP studies, ISOLDE, nTOF
      - Joining several meetings for discussion on CERN’s future plan.
    - Next NuPECC meeting will discuss:
      - LHeC and ALICE / CERN strategic planning
      - Booklet on nuclear physics and medical applications
  9. ANPhA support symposia, workshops and schools, for 2012-2014
    - 16-19 Dec. 2012, at Hong Kong
    - 29Aug. – 4 Sept. 2012, CNS Summer School

- 14-20 Feb. 2013, School for Strangeness Nuclear Physics in Tokai and Tohoku
- 2014 Asia Pacific Few Body Meeting in Adelaide

10. Next ANPhA Board Meeting & Symposium

Taiwan is proposing to host the next meeting.

⇒ ANPhA chair will ask Taiwan to hold the symposium on future facilities in Asia.

11. IUPAP C12 (Sakai)

- Young Scientist Prize
- The site for the next-next INPC meeting

12. Nuclear physics session in AAPPS

Important roles of ANPhA were emphasized.