

Minutes of the 4th AONSA Executive Committee Meeting

Institute of Materials Research & Engineering, Singapore May 22, 2010

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* Note: The minutes of the Board Meeting on March 13, 2010 have its own appendixes.

Minutes of the 4th AONSA Executive Committee Meeting

- Date: 9:00-16:45 on May 22, 2010 (Saturday)
- Place: Institute of Materials Research & Engineering (IMRE), Singapore
- Participants: 14 participants

[Board Members]

John White (President, ANU), Sung-Min Choi (Secretary, KAIST) Mahn Won Kim (past-President, Advisor, KAIST) Masatoshi Arai (past-Secretary, Advisor, J-PARC/JAEA)

[Members]

Brendan Kennedy (U. of Sydney), Chih-Hao Lee (National Tsinghua U.), Ki-Bong Lee (POSTECH), Kazuyoshi Yamada (Tohoku U.)

[Observers]

Shane Kennedy (on behalf of Rob Robinson, Bragg Institute/ANSTO)
Kye Hong Lee (HANARO/KAERI)
Edy Giri Rachman Putra (on behalf of Gunawan, BATAN)
Adbul Aziz Mahamed (Malaysian Nuclear Agency)
Megat Harum Al-Rashid Megat Ahmad (Malaysian Nuclear Agency)
Wim Klooser (Amethyst Scientific Consulting LLP)



1. Opening Remarks by President, John White

The meeting was started with opening remarks of President, John White, and noted the help and hospitality of Prof. Andy Hor, Director-elect of Institute of Materials Research and Engineering (IMRE) to arrange the EC meeting at the IMRE in Singapore. This was highly appreciated by all EC participants. This was followed by self-introduction of participants.

2. Approval of Agenda

The agenda of the 4th AONSA EC meeting was approved by the EC.

3. Approval of the Minutes of the 3rd AONSA EC Meeting in Beijing

The minutes of the 3rd AONSA EC meeting in Beijing (included in Appendix 1) was approved by the EC.

4. Reports of the AONSA Office.

Recent activities of the AONSA office were reported to the meeting, which include

- The Board meeting held on March 13, 2010, in Tokyo.
- Informal AONSA meeting held on March 24, 2010, in Tsukuba.
- Newsletter Vol. 2, No. 1, published in February 2010.
- New AONSA website address (<u>http://www.aonsa.org</u>).

5. Approval of the Minutes of the Board Meeting in Tokyo on March 13, 2010.

The minutes of the Board meeting was approved by the EC.

6. Discussions and Decisions

6.1 Formal Matters

6-1-1. New AONSA EC Members and Observers (2010-2011).

- New AONSA EC members and observers were reported to the EC and approved.

6-1-2. Positions of Immediate Past President and Secretary

- Following the recommendation described in the minutes of the Board meeting held on March 13, 2010, it was proposed to the EC that the immediate past President and Secretary should be advisors to the Board for one year and they are ex-officio members of EC without voting power for this period. The change of Articles to accommodate the proposal was also proposed to the EC.

- It was proposed by an EC member (B. Kennedy) that the position of immediate past-President should be handled separately from that of immediate past-Secretary. It was proposed that the immediate past-President should be an advisor to the Board for one year and he/she is an ex-officio member of the EC for this period (by the definition of EC member, he/she has a full voting power.). On the other hand, the position of immediate past-Secretary should be the same as it was proposed in the minutes of Board meeting (an advisor to the Board and an ex-officio member of EC without voting power for one year).
- The revised Proposal described above was unanimously approved by the 6 attending EC members by voting and the change of Articles (5.1 Board, underlined) to accommodate this was approved by the EC.

<Change of Articles> Article 5: Organisation of the Committee

5.1 Board The Committee will nominate a Board which will represent the association

between formal meetings. It will comprise the President, the Vice-President, the Treasurer and the Secretary. The holder of each of these positions will be elected by the committee from amongst the current registered delegates. The normal term of office will be 2 years. The President then becomes an *ex-officio* member of the Committee. In normal circumstances, the Vice-President will succeed to the Presidency at after 2 years. The immediate Past-President and Past-Secretary should be advisors to the Board for one year. The immediate Past-President is an *ex-officio* member of the Committee for this period. The immediate Past-Secretary is an *ex-officio* member of the Committee without voting power for this period.

- *Note*: The Article 7 (Modifications to the Articles) states that 'Any modification to the Articles of Association shall require the approval of more than one half of all registered delegates at formal meetings of the Committee. One month's notification in advance of any proposed modification is required'.

Since the minutes of Board meeting on March 13, 2010 which contains the proposal for the modification of Articles related to the position of immediate past-President and past-Secretary was circulated among the EC members more than one month ahead of time, the change of the Articles described above is

legitimate. This was discussed and approved by the EC members before the voting for the change of Articles.

6-1-3. Rules for EC Nomination and Appointment

- The rules for EC nomination and appointment recommended by the Board (included in Appendix 2) was approved by the EC.

6.2 Process Matters

6.2.1 An efficient way of communication among Board and EC members.

- To set up an efficient way of communication among Board and EC members, 'Virtual Board Meeting' was proposed and approved by the EC.
- Virtual Board Meeting: President, vice-President and Secretary make a draft minutes of the discussions by email into a set of paragraphs (a summary of discussions) for the whole Board to approve. The Board circulates the minutes of virtual Board meeting to the EC members and uses it to prepare the agenda of EC meeting.
- The circulation of the agenda of EC meeting should be made at least one month before EC meeting.
- A follow-up virtual Board meeting should be held at least within one month after EC meeting.
- These arrangements were approved by the EC.

6.3 Financial Matters

6.3.1 Annual Fee and Budget Plan for the fiscal year of 2010.

- The Annual Fee and Budget Plan for the fiscal year of 2010 (included in Appendix 3) was presented by S.M. Choi on behalf of W. H. Li.
- ANBUG, JSNS, KBNUA and TWNSS have paid their annual membership fee for the year of 2010. The payment by INSS has not been made yet.
- The itemized expense (including the remittance charges occurred during annual fee payments and the charge for new AONSA website address) and current balance were reported and approved by the EC.
- It was approved that while all the remittance charges from the sending and receiving banks during annual fee payments should be paid by senders, the remittance charge in the receiving bank can be covered by AONSA office, if necessary.
- A budget plan for the fiscal year of 2010 was proposed and approved by the EC.

The budget plan includes 1) Support for students to attend the 3rd AONSA Neutron School in India (\$3,000), 2) Expenses for the EC meetings and Working Group meeting (total \$2,000), and 3) AONSA Office general expense (\$500).

- It was approved by the EC that, for efficient operation of AONSA, some difference between the plan and actual uses within a reasonable range should be granted and reported to the EC meeting afterward. (It was noted that sometimes, for example, at the Beijing and Singapore EC meetings, the expenses provided for in the budget were saved because of the generosity of the host organization.)

6.3.2 AONSA Prize Fund.

- It was agreed that the AONSA Prize Fund should be funded by sources other than the AONSA annual membership fee.
- The AONSA Office will set up a new bank account for the AONSA Prize Fund which will be raised through donations or other ways.
- Currently, major neutron facilities have secured or are seeking fund for donations.
 The HANARO and Bragg Institute got their internal approvals for donations of \$5,000 each for the AONSA Prize Fund, and J-PARC is currently processing it for approval.

6.3 Report from the Working Group for AONSA Prize

- The report of the Working Group (WG) chaired by Y. Fujii (included in Appendix 4) was presented by B. Kennedy, which includes 1) Details of WG, 2) WG Members, 3) Action Reports & Plans, and 4) Draft Guidelines for AONSA Prize.
- The excellent work of WG was highly appreciated by all EC participants.
- Most of the draft Guidelines for AONSA Prize reported by WG were agreed by the EC.
- The following changes to the draft Guidelines for AONSA Prize were suggested and agreed by the EC.

(1) AONSA Prize

<u>From</u>

b. Aim of Prize: To recognize outstanding research career with a significant impact in the use or development of neutron science or technology in the Asia-Oceania Region.

<u>To</u>

- b. Aim of Prize: To recognize outstanding research career with a significant impact <u>or contribution to</u> the use or development of neutron science or technology in the Asia-Oceania Region.
- (2) Nomination

<u>From</u>

a. Nomination shall be opened to anyone whose work has significantly impacted in the Asia-Oceania Region.

<u>To</u>

a. Nomination shall be opened to anyone whose work has significantly impacted or contributed to the Asia-Oceania Region.

<u>From</u>

b. Anyone (not a member of the AONSA Prize Selection Committee) may submit one nomination or seconding letter for the prize. <u>Self-nomination</u> <u>should be excluded.</u>

<u>To</u>

b. Anyone (not a member of the AONSA Prize Selection Committee) may submit one nomination or seconding letter for the prize.

Note:

- The changes of 1-b and 2-a were made to make the candidacy of possible recipients of AONSA Prize more inclusive rather than too restrictive.
- The change of 2-b was made to avoid possible unfair elimination of good candidates from nominations. There was some concern that this change may result in too many nominations for the selection committee to handle. However, it was agreed that this concern can be resolved by the requirement of at least two seconding letters for nomination.
- It was suggested and agreed by the EC that the airfare of recipient(s) and monetary prize should be covered by AONSA and the registration fee of recipient(s) should be covered by Conference at which the AONSA Prize is awarded.
- * According to B. Kennedy, in the ICNS 2005, Sydney, the registration fee of the recipient of ENSA Award (Walter Halg Prize) was waived by the Conference.

6.4 AONSA Neutron School.

6.4.1 Guidelines for AONSA Neutron School.

- The guidelines for AONSA Neutron School (included in Appendix 5) were presented and approved by the EC.
- It was agreed that 'The x-th AONSA Neutron School' should be used as an official name. (Not AONSA Summer School or AONSA Neutron Summer School).
- The School should be advertized to other countries in the Asia-Oceania Region such as Vietnam, Thailand and so on. <u>This will be discussed in the follow-up</u> <u>Board meeting as a part of 'Reach-Out Actions'</u>.
- Since it was noticed that there are some interests from outside of the Asia-Oceania Region to attend the School, the School may allow one or two exceptions for acceptance from outside of the Asia-Oceania Region.

6.4.2 Report from the 3rd AONSA Neutron School in India.

- The Report (included in Appendix 6) was presented to the EC by S.M. Choi on behalf of S.L. Chaplot, which includes the schedule, website, international lecturers, selection of students, and AONSA/IAEA supports for travel of students from developing countries.
- The great efforts of the organizers of the 3rd AONSA Neutron School were highly appreciated by all EC participants.
- AONSA allocated \$3,000 to support travel expense of students from developing countries. The number of students that this budget can support may be 3-5 depending on airfare. (As it is stated in the Guidelines for AONSA Neutron School, it is desirable that the registration fee (200 USD) of the students supported by AONSA is waived by the School. This was not discussed in the EC meeting but is included as a possibility, so that AONSA can support more students. The process for selecting students supported by AONSA should be prepared.)
- ANBUG (5 students) and KNBUA (possibly 5 students) are in the process of selecting students who will be supported by their own organizations. The results will be informed to the organizer of the School.
- It was asked by the EC members if the application deadline for the School (May 31, 2010) is firm. It is desirable that the deadline is extended to some extent and Secretary, S.M. Choi, will communicate with the School organizers

on this matter.

6.4.2 Report from the 4th AONSA Neutron School, 2011, in Japan.

- The tentative plan of the 4th AONSA Neutron School in Japan (included in Appendix 7) was presented by M. Arai on behalf of M. Shibayama, which includes 1) Date and Place, 2) Budget, 3) Accommodation, 4) Dinning, 5) Program, 6) Facility, 7) Information/homepage, and 8) Committees.
- The great efforts of the organizers of the 4th AONSA Neutron School in Japan were highly appreciated by all EC participants.
- It was agreed by the EC that the International Advisory Committee for the School should include EC observers as well.

6.5 Asia-Oceania Conference on Neutron Scattering (AOCNS).

6.5.1 Plan for the 1st AONSA Conference (AOCNS)

- The tentative plan for the 1st AOCNS in Japan (included in Appendix 8) was presented by K. Yamada on behalf of T. Kanaya, which includes 1) Dates and Place, 2) Preparatory Committee, 3) International Advisory Board and 4) International Scientific Program Committee.
- The great efforts of the Preparatory Committee of the 1st AOCNS were highly appreciated by all EC participants.
- The International Advisory Board and International Scientific Program Committee have not been formed yet. The members will be decided in the next EC meeting in India (This should be included in the agenda of the EC meeting in India).
- We should find a way to advertise the AOCNS to more broad communities beyond AONSA. (Action for "follow up" Board meeting)

6.5.2 Guidelines for the AOCNS

- The guidelines for AOCNS (included in Appendix 9) were presented by K. Yamada on behalf of T. Kanaya, which includes 1) General Issues, 2) Scientific Issues, and 3) Budget.
- The excellent work of the Preparatory Committee of the 1st AOCNS to prepare the Guidelines was highly appreciated by all EC participants.
- It was agreed by the EC that the Liability and Profit of AOCNS should be appropriately shared by AONSA and host country.
- It was suggested that a small AONSA fee (10 USD for example) should be

included in the Registration fee of AOCNS, which will allow AONSA to secure additional funds for AONSA Prize or others.

6.5.3 Procedure to decide the host and location of AOCNS

- The procedure to decide the host and location of AOCNS (included in Appendix 10) was presented by S.M. Choi, which includes 1) Basic Principles and 2) Procedures.
- The procedure was approved by the EC.
- It should be decided at which EC meeting we should decide the next AOCNS. There are two possibilities, the EC meeting just before the AOCNS or the EC meeting during the AOCNS.

6.5.4 Support for ICNS 2017 in Korea

- As it was discussed in previous EC meetings, Korea has proposed to host ICNS 2017.
- It was agreed that AONSA will support Korea to host ICNS 2017.

6.6 AONSA Newsletter

6.6.1 Report for AONSA Newsletter

- The report for AONSA Newsletter was presented by S.M. Choi, which includes 1) Purpose and 2) Schedule of Newsletter.
- The purpose of Newsletter are advertisement of each society's activities and sharing of expertise.
- The schedule of Newsletter is late April and late October + Special Issue each two years in the form of February 2010 issue.
- It was suggested that the Newsletter should contain contact information for submitting contributed articles.
- It was agreed that the EC members and observers should be responsible for distributing the Newsletters to their own communities.
- It was suggested that we should find a way to distribute the Newsletter to broader communities. <u>This will be discussed in the follow-up Board meeting as a part of 'Reach-Out Actions'.</u>
- Wim Klooster kindly volunteered to distribute the Newsletter to the South-East Asia Region.

6.7 Calendar of AONSA Activities

- The updated Calendar of AONSA activities and other related activities (included in Appendix 11) was presented by S.M Choi.
- The schedules of the next face-to-face Board Meeting and the 5th AONSA <u>EC Meeting in India</u> are agreed to be held on October 4th (Mon), 2010 and October 5th (Tue), 2010, respectively, during the 3rd AONSA Neutron School in India. (Note: The organizers of the School in India proposed the 5th AONSA EC meeting to be held on October 9th or 10th 2010. However, it was pointed out that these proposed schedules are rather inconvenient for most of EC members.) ACTION for "follow up" Board meeting.
- It was suggested and agreed that the Calendar of AONSA Activities may contain events of local communities relevant to AONSA. To be included in the Calendar, the EC member and observer societies should send their events to the AONSA Office.

6.8 Other Issues

6.8.1 Collaborations with International Council of Scientific Unions (ICSU)

- Recent activities in relation to the International Council of Scientific Unions (ICSU) were reported by the President.

ICSU has established a regional office and is keen to intersect with scientific associations in our region to promote cooperation and international programs. The President has made contact with the regional office in Malaysia (Professor Mohammed Nordin Hasan) and its Australian representative from the Academy of Science, Professor Bruce McKellar. The vice President and President met Prof Reiko Kuroda, the ICSU Vice President in Tokyo, on 20 March,

6.8.2 Discussions with IAEA, IAEA Regional Meeting 2010

- A communication regarding the recent IAEA CM meeting (August 12-14, 2009 at ANSTO, Sydney, Australia) and the follow-up IAEA CM meeting (October 27-29, 2010 at KAERI, Daejeon, Korea) was reported.
- The IAEA CM meeting is focused on neutron beams in the Asia-Pacific Region. The results of the recent work by the technical working group of RCA indicate that the Research Reactor Utilization with emphasis on education, science and applications with neutron beams is one of the recommended priorities.

6.8.3 Relations with IUCr

- Recent activities and possible future activities with IUCr were presented by S.

Kennedy, which includes bilateral collaborations of AONSA and IUCr on projects for our region - each supporting the other".

6.8.4 AONSA Archive

- Directory and file naming for AONSA Archive (included in Appendix 12) was reported.

7. Discussions among South-East Asian Colleagues

- During the lunch time, Edy Giri Rachman Putra (Indonesia), Abdul Aziz Mohamed (Malaysia), Wim Klooster (Singapore) and Megat Harum Al-Rashid Megat Ahmad (Malaysia) had informal discussions on collaborative neutron activities in the South-East Asian region and formation of South-East Asia regional neutron association. The result of their discussion was reported to the EC at the beginning of the afternoon session,
- Summary of Discussion (by Wim Klooster).

To have a short version of our (MY, IND, SG) discussion: We are interested in setting up a neutron society for SE Asia, including MY, IND and SG, but also open to people from Thailand, Vietnam and others from SE Asia who might be interested in the use of neutrons. We will have to work out the details of how to set up an international society, how this society will be represented at AONSA, how to pay the fees, etc etc. With the help of AONSA we should be able to come to a satisfactory solution. In the meantime, we will work on trying to grow the local communities of neutron users.

- President, John White, strongly encouraged the activities of South-East Asian colleagues and the EC agreed that AONSA will support their activities to form a neutron society of SE Asia.

8. Reports from Neutron Associations

- Recent activities of neutron associations were reported to the EC (included in Appendix 13).
- ANBUG (Brendan Kennedy)
- INSS (S.M. Choi for Samrath Chaplot)
- JSNS (Kazuyoshi Yamada)
- KNBUA (Ki Bong Lee)
- TWNSS (Chih-Hao Lee)
- Indonesian Neutron Community (Edy Giri Rachman Putra)

- Malaysian Neutron Community (Abdul Aziz Mohamed)
- Chinese Neutron Community (S.M. Choi for Chun Loong)

9. Reports from Neutron Facilities

- Current status and recent progress of neutron facilities in the region were reported to the EC (included in Appendix 14).
- ANSTO (Shane Kennedy)
- BARC (S.M. Choi for Samrath Chaplot)
- J-PARC & JRR-3 (Masatoshi Arai & Mitsuhiro Shibayama)
- HANARO (Kye Hong Lee)
- SIKKA (Chih-Hao Lee)
- BATAN (Edy Giri Rachman Putra)
- CSNS (M. Arai for Fangwei Wang)
- CARR & CPHS (S.M. Choi for Chun Loong)

10. Closing Remarks

- The 4th AONSA EC meeting was closed with closing remarks by President, John White.

11. Additional Activities

- After the EC meeting, an introductory presentation about the activities of IMRE (which hosted the EC meeting) was given by Prof. Andy Hor and his colleagues. This was followed by a lab tour and a dinner generously hosted by IMRE.

Appendix 1 <u>Minutes the Board Meeting on March 13, 2010</u>

- Date: March 13, 2010 (Sat.)
- Place: JAEA Tokyo Office, Tokyo
- Participants:

J. White (President), Y. Fujii (vice-President)

S.-M. Choi (Secretary), W.-H. Li (Treasurer)

M.W. Kim (past-President), M. Arai (former Secretary)

Y. Sugikawa (Secretary of AONSA Office)

Acceptance of the Agenda

At President's suggestion - agreed this item will be added always for members

Report on 14 January 2010 informal meeting (SENDAI)

At President's suggestion this report was accepted and this process will be followed for all such informal meetings.

Report on e-mail correspondence between Board members since 14 January 2010. ("Virtual meetings")

To prepare items for the Agenda of the Executive there has been e-mail correspondence between Board members between January 2010 and March 2010. This was systematized to gather input for the 13 March Board meeting. The whole discussion is attached, Appendix 1.

In the course of this correspondence it was realized that we were having a "virtual meeting". This practice has been used by the International Union of Pure and Applied Physics with good effect.

For formality, the Board was asked to go through the attached correspondence and the minutes below are taken from the approved correspondence and the ensuing discussion.

All recommendations are in black

1.Formal matters

a. Approval of Beijing EC meeting minutes.**Board Agrees - it is accepted already.**

b. Approval of Executive Committee membership 2010-2011

The EC member and observer list is complete and attached except the position of immediate Past President and Chinese observers.

The list is attached as Appendix 2

• Role of Past President and Secretary arising from this agenda item (Sun-Min Choi (29-1-10)). (The President and past President left the room for this):

Agreed Immediate Past President and Secretary should be advisor to Board for one year. They are ex-officio members of Executive without voting power for this period.

(It was also agreed that the former Secretary and President should be "observers for 13-3-2010 meeting)

This should be approved by next EC for a change of articles.

• Letter to Chinese Colleagues with proposed observer membership. Appendix 3

(c) **RULES for EC NOMINATION and APPOINTMENT**

The Secretary suggested draft rules for nomination (Sung-Min30-1-10)

Agree to recommend to the Executive

(1) Nomination Process. The Board on behalf of the EC requests nominations by the second EC meeting in the second year of any Presidency and informs the EC.

(2) The EC is then formed for the next Presidency from those presented formally by current "paying regular member" society Presidents. Normally only members of the Nominating Society can be nominees.

Secretary collects all of these proposals and presents to Board at next meeting. President announces the new Executive at the beginning

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of new Presidency.

NOTE some Associations have been given three years to become paying members and these Associations can nominate Executive members.

b) EC Observers

Once one observer from each major neutron facility (which was listed as one of the major neutron facilities in a previous term) is recommended, he/she will be honored automatically unless there is any clear conflict.

Discussion and Agreement:

- (1) Observer status is one way in which AONSA can welcome new associations. The EC encourages movement from observer status of Societies to full membership to keep a balance EC membership.
- (2) Nomination Process. The Board on behalf of the EC collects nominations..
- ACTION Sung-Min will draft a letter relating to AONSA categories of Observer status.

2. Process matters

We need to set up an efficient way of communication among Board and EC members.

- i. We need to decide whether we will have "virtual" Board meetings and formal process. If we decide to have 'virtual' Board meetings, what are the formal procedure and schedule?
- ACTION Discussion on 13 March 2010: Present process should be improved so that President Vice President and Secretary make draft minute of

the discussions by e-mail into a set of paragraphs for the whole Board to approve.

Board Recommends to Executive that minutes of "virtual Meetings between Board members be made for Board to use in preparation of EC agendas.

3. Approval of meeting Schedule

Face-to-face EC and Board meetings 2010.

14 January informal Board Meeting (SENDAI)

13 March Board meeting Tokyo

24 March Informal Executive meeting at ASEMS, TSUKUBA

ACTION need a face to face EC meeting soon. When and Where. Objective Singapore JWW to find possibilities and report.

May EC meeting SINGAPORE date under discussion 1/5 or 7/5 or 22/5

4 October in India. EC Decided during the Summer School (3 to 9 October)

30 October - 4 November informal EC meeting Korea Questionaire to EC meeting - how many EC members are coming to AsCA or Hanaro. about 30 October or 31 October in Busan. or 3 or 4 November in Hanaro.

ACTION JWW to contact the EC - tell them a possible agenda and ask to fill out availability in April and May

4. Financial Matters

From Treasurer: Dues remaining to be paid: Due: 2009 INSS 2010 INSS, TWNSS(processing)

- ACTION need to get efficient transfers how much do banks charge this to be minimized if possible.
- ACTION WHL to monitor this. We need to prepare the budget plan for this fiscal year. (This will be submitted to EC for approval.)
- ACTION WHL will do this

ACTIONS WHL

- (1) 2009 Budget had in it \$2000 reserved for neutron School. Not spent
- (2) \$500 was allocated for the AONSA EC meeting in Beijing. But since Chinese colleagues paid the bill for dinner, it was not used.
- (3) Need for new Account for AONSA award. The AONSA Award is planned to be funded by sources other than the AONSA annual fee. Therefore, the AONSA Office will set up a new bank account for the AONSA Award Fund which will be raised through donations.

(4) Need an operation Budget of AONSA this to be done by WHL as draft for Board to include in papers for EC in May.

- (5) The AONSA office will try to minimize the handling charge by the receiving bank which occurs during payment of Annual Fee. However, if it occurs it will be paid by the AONSA office. It is about \$45 per transfer of annual fee this year.
- (6) A tentative budget to support students to attend Neutron School is \$3,000 and a tentative operation budget of AONSA is ca. \$1,000. Therefore, ca. \$4,000 is expected to be spent in 2010 and the left over will be accumulated for later use.
 - The items needed for the operation of AONSA will be listed.
 - It should be noted that the actual operation budget may be slightly different from the plan.
 - Therefore, for efficient operation of AONSA, some difference between the plan and actual use within a reasonable range should be granted and reported to the EC meeting afterward.

5. AONSA AWARD

AONSA award - establishment of the working group at March 13 meeting. Report of the group to the Board and then the next Executive. Membership and function of a working group to prepare rules for nomination and selection.

ACTIONS Agreed Working group to define rules - The group (includes Chair) should have 5 members requested by Chair from "regular members - including India",) Vice President is Chair. He will accept the working group from the suggestions. Report for face to face EC in May. Decision of the rules at 2nd Face to face EC 2010. One big award

for 2011. We should discuss the general philosophy of AONSA Award at EC meeting May 2010

6. AONSA School 2010

(a) India School 2010Guidelines for the School (Beijing meeting 2009) Appendix 4

(b) Discuss Vice President's paper Small Science at Large Facilities re AONSA School 4-9 October

Proposal of Y Fujii concerning 'plain explanation of necessity of large facility for small science'. President proposes a working group on this when he is Japan March between March 11 and March 26.

ACTION Premature to organise a working group.

7. AONSA CONFERENCES

- (a) **AONSA Conference and School 2011** Preliminary information See **Appendix 5**.
- (b) Procedures to decide the host and location of Asia-Oceania Conference on Neutron Scattering (AOCNS) Draft 17-3-2010 Appendix 6
- 8. AONSA website address

<u>www.aonsa.org</u> (Currently, this is available for our use.) President proposes that we use this address.

ACTION Agreed Yukari to do.

9. AONSA Newsletter

The Board thanked the AONSA Office for the Published Newsletter and discussed its purpose: Advertisements of each society's activities and sharing of expertise. Web linking of AONSA site to Facility sites was proposed. Timing of the Newsletter was discussed: Agreed to suggest late April and late October + Special Issue each two years in the form of February 2010 issue. Make sure that we have on our calendar Asia-Oceania Conferences

10.CALENDAR 2010-2015

ACTION Secretary to produce an updated calendar for the next two years for EC May and draft for Informal EC 24 March.

Items to be included in Calendar>

- Schedule of EC and Board meetings

- Schedule of Conferences/Meetings which are related to AONSA activities, includes IUCr, AsCA etc

- Activities of working group (?)

Aim to plan co-inciding EC meetings with science meetings which EC members are likely to attend.

11. ANY OTHER ISSUES

11.1 with ICSU

(a) The President and Vice President will meet Professor Kuroda - Vice President of

ICSU to present AONSA's activities to her.

Prof. Reiko Kuroda will be available for our visit only on Mar. 19 (Fri.) 10:30-12:00. I'll take you to her office in Komaba Campus of Tokyo University from Tokai on Mar. 19.

(b) Submission to ICSU Foresight process January 25 2010.

Dear Professor White

Thank you for your input to the ICSU foresight process. As will all other submissions of ideas, we will fold your ideas into a master compilation of all suggested key drivers of international science over the next 20 years and begin the challenging process of distilling these ideas down to a number that will help define the scenarios of international science in the future. Thanks again for spending time to submit your input.

Sincerely

(c) Contact with Emeritus Professor Mohd. Nordin Hasan FASc, Director, ICSU Regional Office for Asia and the Pacific, 902-4 Jalan Tun Ismail, 50480 Kuala Lumpur, MALAYSIA

11.2 Discussions with IAEA- IAEA Regional Meeting 2010 Appendix 7

APPENDIX 1

ACTIONS from the AONSA Board January 2010 correspondence John White 1 February 2010

2. Formal matters to be resolved

a. Approval of Beijing EC meeting minutes.

Yukari Sugikawa 28-1-10: Could you please tell me if I should send it now or another time?

President suggests last distribution once more to old EC.

Deadline for any reply 15-2-

10. No response by then is taken as approval.

Y. Fujii approves it as a former observer except for the budget proposal which should be replanned based on the new situation, in particular the budget support for the AONSA Award.

[Sung-Min] I agree with President except budget plan as pointed out by Fujii-san. We should discuss the budget plan in the Board meeting on March 13.

b. Approval of Executive Committee membership 2010-2011

President suggests: formal approval from old + new EC. Deadline for an y reply 15-2-

10. No response by then is taken as approval of proposed list.

Y. Fujii approves it except for the formal position for the Immedia te Past President.

[Sung-Min] I think the EC member and observer list is complete except the position of immediate Past President and Chinese observers.

Discussion needed on matter raised by Sun-Min Choi (29-1-10) :

RULES for EC NOMINATION and APPOINTMENT

From Sung-Min 30-1-10

For the procedures for officially approving the EC members, I suggest the following.

a) EC Members

Once two delegates from each member society are recommended for EC members, they will be honored automatically unless there is any clear conflict.

If the delegates (EC members) need to be replaced during their term due to their own domestic issues, it needs to be informed to AONSA EC.

b) EC Observers

Once one observer from each major neutron facility (which was listed as one of major neutron facilities in a previous term) is recommended, he/she will be honored automatically unless there is any clear conflict.

Once Secretary get all the list of EC members and observers, President simply announces it after confirming with other Board Members.

Any new facility, project or community that wants to send an observer should get an approval from EC.

c) To make EC function immediately in a new term, the recommendations for new EC members and observers need to be made before a new term starts.

For example, by the last EC meeting or by the end of each term. We are late for this but we can do this way in the next term.

President suggests that these rules be discussed and adopted by the Board on 13-3-10 for the Executive meeting in April 2010.

Y. Fujii agrees with Sung-Min's proposal for officially nominating/a pproving EC members and he also agrees with President's proposal for taking formal procedures.

[Sung-Min] I agree on President's suggestion.

Discussion needed on matter raised by Sun-Min Choi (30-1-10) :

Followings are new EC members and observers confirmed by member societies or facilities. Some of them are still missing and today I sent out reminding emails.

From China (from Chun Loong), we got 4 people (Chun Loong, Dongfeng Chen, Jie Wei and Fangwei Wang, same as before) recommended for observers.

I think we should discuss about this before we finalize the observer list. Any comments on this?

President suggests that bringing China more closely into AONSA be disc ussed at the next Board and Executive but for the meantime we accept th ose proposed.

Y. Fujii agrees with President's proposal. [Sung-Min] I agree with President.

c. Approval of past-President status on EC meeting.

President recommends: Past President should be member of EC and Board for one year after Presidency- subject to the Secretary assuring the Board that this can be accommodated with our statutes.

President suggests: To be decided at 13 March Tokyo meeting.

Y. Fujii agrees with President's proposal; however, it requires the c hange of the Article of AONSA which should be approved by the EC after the Board Meeting.

[Sung-Min] I agree on President's recommendation. As pointed out by Y. Fujii, we need to modify the Article of AONSA.

d. Agreement on Board meeting 13-3-10: 29-1-10 Fujii (3) We'll meet together in the afternoon of March 13 (Saturday) at JAEA Tokyo Office in the mid-town of Tokyo accessible in 30 minutes from Haneda Airport. We'll let you know more detailed information later.

Y. Fujii: Yukari has already scheduled as you have been noticed.

- e. Approval of draft schedule of face-to-face EC and Council meetings 2010.
 President suggests: To be decided at 13 March Tokyo meeting.
 Y. Fujii agrees with President's proposal.
 [Sung-Min] I agree.
- f. Matters from Sendai meeting:
 - i. Final comments on draft budget plan (AONSA office plus treasurer)

- ii. Calendar 2010-2011 production of detailed calendar containing suggested meeting times, major events etc
- iii. AONSA newsletter. Agreement on February and August distribution dates and content of the next issues as proposed [Sung-Min] We may need further discussion about the schedule of AONSA Newsletter.
- iv. Agreement on EC meeting Hanaro 1-2 November 2010. See my comment above at
- v. AONSA award establishment of the working group at March 13 meeting. Report of the group to the Board and then the next Executive. We should discuss when this should be for the calendar. I understand from Rob Robinson (today) that the IAEA meeting in Singapore, foreseen for April 2010 may now be at the end of 2010 there.
- vi. Proposal of Y Fujii concerning 'plain explanation of necessity of large facility for small science'. President proposes a working group on this when he is Japan March between March 11 and March 26. (A good introduction to this can be found through http://www.nature.com/news/2010/100120/pdf/463282a.pdf is the article on big science spurs collaborative trend. This may also be u seful for our Asia- Europe meeting at KEK at the end of March.
 Y. Fujii agrees with President's proposal and he is writing his message on the Feb. 2010 issue of AONSA NEWSLETTER on the similar subject.
- g. mn

3. Process matters

- a. Circulation of all correspondence to all EC members.
 President suggests this be reviewed at 13 March 2010 meeting for any improvements.
 - The present attached email coming from a suggestion from Masa Arai today may be one such improvement as it seems that most emails, when responding with 'reply', copy the original email but add carriage returns and this is confusing.
 - A second improvement may come from our filing system if we

can think of some way to 'flag' key correspondence between board members.

I would be glad of suggestions from the board, in particular the secretary and the AONSA office.

Y. Fujii agrees with President's suggestion.

[Sung-Min] We need to operate AONSA as openly as possible. However, circulating all correspondences to all EC members may generate too many emails to follow. So, I propose to circulate those correspondences (or summary of correspondences) that require attention from all EC members.

I think that emails with file attachment (present one) may be a good choice to start with.

(This method has some difficulties for efficient communication as well. I will try to think about this matter more.)

We circulate the summaries of correspondences and minutes of meetings to all EC members and archive those on the AONSA website after getting approvals from participants.

b. Approval of email 'virtual' EC meetings and draft schedule

Y Fujii 28-1-10 (1) I'd like to ask Secretary(Sung-Min Choi) to propose the procedures for officially approving the EC members by virtual meeting or by any other method because our final decision on the EC members is the most urgent issue to proceed all actions under the new Presidency. This time we should like to appoint each member by clearly stating his/her category in the Articles 4.1 Delegates and 4.2 Observers.

President suggests: This be decided provisionally now with any discussion of improvements and formalities at 13 March Tokyo meeting and schedule recommended to EC meeting planned for April 2010.

Y. Fujii has proposed a list of members and observers as attached. [Sung-Min] I agree on President's suggestion. My proposal is given in 1-a.

4. Financial matters

- **a.** From Sendai meeting: Final draft budget plan for March 13 Board meeting.
- **b.** From Sung-Min 30-1-10

I have a few comments for the Budget plan distributed by Yukari.a) In the Beijing meeting, we agreed to set up a new address for AONSA website. So I thought, the budget for website was already approved.b) In the Beijing meeting, we agreed to raise a AONSA award fund which is separate from AONSA annual membership fee.

So, the budget for AONSA award should not be included in the current

budget plan.

The HANARO already got an approval for donating \$5,000 for AONSA award. To process it, the AONSA office needs to prepare a new Bank account for AONSA award fund.

c) \$3000 for AONSA Neutron School in India is reasonable. This budget should be used for students from developing countries.

d) \$500 reserved for EC meeting expense seems to be reasonable.

For the moment, I do not find any further item for Budget plan. If there is no urgent need for spending budget, could we discuss the budget plan more during the Board meeting in March ?

For other items that are asked for my attention, I will send in another email.

c. President suggests send draft to EC in good time for EC meeting April 2010.

d. Report on annual membership fee payments March 13 2010.

Y. Fujii agrees with President's suggestion for the further action on t his matter.

[Sung-Min] I suggest that we send out the budget proposal to EC members after the Board meeting on March 13.

29-1-10 Fujii suggestions:

(2) Regarding the budget plan 2010 distributed by Yukari yesterday, I'd like to ask Secretary and Treasurer(Wen-Hsien Li) to reconsider it upon **our more detailed action plans** this year before it will be circulated to the EC members for approval.

My additional comment: This Yukari's original mail sent to you this morning should be sent to all EC Members to approve it, AFTER the present

Board Members agree.

JWW proposes: Board members to bring any additional items.Budget discussion and Board Recommendation to EC on 13 march 2010Y. Fujii agrees with President's proposal.

e.

5. Any other business.

Newsletter February 2010

President agrees the suggested contents from the Sendai meeting:

•Declaration of the new managements

Y. Fujii: Yukari is now collecting.

•Pictures of new AONSA **Board** members and their statements. -AONSA office to get a photo and brief biography statement (five lines maximum??) from each Board member.

Y. Fujii: Yukari is now collecting.

• Updated member list and pictures of members.

Y. Fujii: Since the position of the Immediate Past President has no t been decided officially, we can list all members except for him/her (Thi s time it's Mahn Won Kim).

Calendar for 2010-2011 - Provisional Calendar can be inserted.Y. Fujii: Yukari is now working on it.

President asks: how many societies have submitted reports so far? Y. Fujii: Only one from Australia on "The 8th AINSE/ANBUG Neutron Scattering Symposium, December 2009". In order to prevent the further delay in publicatio n of this February issue, however, we have already agreed to publish new Board Members' message, Calender and any other articles if available.

[Sung-Min] For Calendar, we may need discussion before we finalize it and there are some unresolved issues as well. So, I think it would be safe to publish AONSA Newsletter after the Board meeting. Also, the last issue of Newsletter was published on December 1^{st} 2009.

Since February issue 2010 is too close to the last issue, we did not formally

ask for articles or news from societies.

John W White

Y. Fujii's further comments on the position of the Past President:

(1) Without changing the present Articles, he/she can be appointed an observer i n EC based on the Article 4.2 "Further individual observers may be co-opted ac cording to the needs of the Association".

(2) By changing the Article, he/she can be a member of Board or/and EC. Pre sent President's suggestion in this correspondence "President recommends: Past President should be member of EC and Board for one year after Presidency-subject to the Secretary assuring the Board that this can be accommodated with our sta tutes." seems reasonable but it requires the change of the Article.

Meanwhile until it's officially decided by the EC Meeting hopefully in April, t he presence by the Past President in the upcoming Board Meeting in Tokyo (Ma r. 13, 2010) should be authorized as an observer defined as (1). Even in this c ase he can be an observer in EC not in Board, but he can be an observer in th e Board to be approved/declared by the present President.

APPENDIX 2

Appendix 2



AONSA Exective Committee (Updated on 1 February, 2010)

		Category	Title	Name	Affiliation	e-mail
KNBUA	*Secretary (Member #1)	4.1	Prof.	Sung-Min Choi	KAIST	<u>sungmin@kaist.ac.kr</u>
	Member #2	4.1	Prof.	Ki Bong Lee	POSTECH	kibong@postech.ac.kr
	Observer#1	4.2 a	Dr.	Kye Hong Lee	KAERI	<u>khlee@kaeri.re.kr</u>
	*Past President	TBD (4.2 d?)	Prof.	Mahn Won Kim	KAIST	<u>mwkim@kaist.ac.kr</u>
ANBUG	*President	Ex−officio	Prof.	John White	ANU	jww@rsc.anu.edu.au
	Member #1	4.1	Prof.	Brendan Kennedy	The University of Sydney	B.Kennedy@chem.usyd.edu.au
	Member #2	4.1	Dr.	Chris Ling	The University of Sydney	c.ling@chem.usyd.edu.au
	Observer#1	4.2 a	Prof.	Rob Robinson	ANSTO	<u>rro@ansto.gov.au</u>
JSNS	<i>*Vice President</i> (Member #1)	4.1	Prof.	Yasuhiko Fujii	JAEA	fujii.yasuhiko@jaea.go.jp
	Member #2	4.1	Prof.	Kazuyoshi Yamada	Tohoku University	kvamada@imr.tohoku.ac.jp
	Observer#1	4.2 a	Prof.	Masatoshi Arai	JAEA	<u>masatoshi.arai@j-parc.jp</u>
	Observer#2	4.2 a	Prof.	Mitsuhiro Shibayama	Tokyo Univ.	bushmont@gmail.com
TWNSS	*Treasurer (Member #1)	4.1	Prof.	Wen-Hsien Li	NCU	whli@phy.ncu.edu.tw
	Member #2	4.1	Prof.	Chih-Hao Lee	NTHU	chlee@mx.nthu.edu.tw
INSS	Member #1	4.1	Prof.	Samrath L. Chaplot	BARC	chaplot@magnum.barc.gov.in
	Member #2	4.1	Dr.	Dhananjai Pandey	Banaras Hindu University	dpandey_bhu@yahoo.co.in
	Observer#1	4.2 a	Prof.	R. Mukhopadhyay	BARC	mukhop@barc.gov.in
CSNS, CARR & CPHS	Observer#1	4.2 b	Prof.	Chun LOONG	Sun Yat-Sen University	ckloong@gmail.com
	Observer#2	4.2 b	Prof.	Dongfeng CHEN	CIAE	dongfeng@ciae.ac.cn
		4.2 b	Prof.	Jie WEI	Tsinghua University	weij@tsinghua.edu.cn
		4.2 b	Prof.	Fangwei WANG	The Institute of Physics, CAS	fwwang@aphy.iphy.ac.cn
BATAN	Observer#1	4.2 a	Dr.	Gunawan	BATAN	gunbki@batan.go.id
Malaysian Nuclear Society @ Malaysian Nuclear Agency	Observer#1	4.2 a	Dr.	Abdul Aziz Mohamed	Malaysian Nuclear Agency	aziz_mohd@nuclearmalaysia.gov.my

Category (AONSA Article)

4.1 Delegates Each paying Regular Member (affiliated society) will nominate two delegates to the Association Executive Committee (hereafter referred to as the Committee). A substitute delegate will be allowed. The individual delegation is recommended to be 2 years and is renewable.

4.2 ObserversInvited observers to the Committee will include representatives nominated by:a. The major neutron scattering facilities in the Regionb. Projects for new neutron sources in the Region

Appendix 3

Letter to Chinese Colleagues 17-3-2010

Dear John,

The attached is a draft for Email to Chinese colleagues for their observer status. Please feel free to add or revise it, as needed.

By the way, if you send me the memo file you typed in during the Board meeting, I can prepare a minutes of the meeting. Your memo was very clear and complete already

and maybe there is not much I need to do further. Anyway, I can help.

Best regards,

Sung-Min

Dear Colleagues,

We had a AONSA Board Meeting on March 13th in Tokyo and confirmed the AONSA Executive Committee Members and Observers nominated by participating societies in early this year. Following the AONSA article on Observer Status, we would like to specify 4 Chinese observers into three categories (please refer to the AONSA article on observers).

Chun Loong	:	(4.2c)	represents Chinese neutron scattering user group
Dongfeng Chen	:	(4.2a)	represents major neutron facility (CARR)
Fangwei Wang	:	(4.2b)	represents new neutron source project (CSNS)
Jie Wei	:	(4.2b)	represents new neutron source project (CPHS)

If you have any comment on this, please let us know.

We wish that Chinese neutron scattering user group can change its AONSA membership into a regular member by forming a Neutron Association in near future.

Looking forward to meeting you in the AONSA EC meeting which is expected to be held in April or May this year in Singapore. We will consult with you for the schedule soon.

Best regards,

John White and Sung-Min Choi

Appendix 4 Guidelines for Operation of AONSA Schools

Rob Robinson and Sung-Min Choi, 20 August 2009 These guidelines are based on the experience so far with the AONSA Schools held in Daejon (2008) and Sydney (2009)

- 1. The school should be able to handle 40 or more graduate students; it is desirable to include hands-on practice on real neutron-scattering instruments if at all possible;
- 2. No more than 50% of the student attendees should be from institutions in the host country; at least 50% should come other user communities in the Asia-Oceania region, with a reasonable spread;
- 3. The host organisation pays for all local expenses (accommodation, meals, local transportation) for both students and lecturers;
- 4. Airfares are the responsibility of the students (or their home institutions) and lecturers (or their home institutions). The only exceptions are students from developing countries, and we have been able to support 4-5 such students at each school, so far;
- 5. Regarding lecturers, it is desirable to have a minimum of:

At least 2 domestic lecturers 2 lecturers provided by JSNS/J-PARC 2 lecturers provided by KNBUA/HANARO 2 lecturers provided by ANBUG/ANSTO

It is desirable to have some continuity in the pool of lecturers from the previous school or schools;

6. We should seek funds to support student attendance from developing countries, from the IAEA and elsewhere.

Appendix 5 AONSA Conference and School 2011 Preliminary information

Committees

(a) International Advisory Board (Members of ANSTO)
Mahn Won Kim (KAIST, Korea)
Ki Bong Lee (POSTECH, Korea)
John White (Australia Nat. U., Australia)
Rob Robinson (ANSTO, Australia)
...(, Australia)
Brendan Kennedy (, Australia)
Yasuhiko Fujii (JAEA, JAPAN)
Kazuyoshi Yamada (Tohoku U, JAPAN)
Wen-Hsien Li (NCU, Taiwan)
Chih-Hao Lee (NTHU, Taiwan)
Samrath L. Chaplot (BARC, India)
Dhananjai Pandey (Banaras Hindu University, India)

(b) Task Force: JSNS (domestic advisory committee for JSNS)

Arai (J-PARC/JAEA), Kakurai (JAEA), Kanaya (Kyoto U), Kawabata (Kyoto U), Murakami (KEK), Shibayama (U Tokyo), Niimura (Ibaraki U), Suzuki (NIMS, JSNS), Seto (KEK), Takano (Ibaraki Pref), Iwasa (Tohoku U.)

(c) Executive Committee

Chair: Mitsuhiro Shibayama (ISSP, U. Tokyo) Vice Chair: Masatoshi Arai (J-PARC/JAEA) Secretary: Kenji Nakajima (J-PARC/JAEA) Program: Takashi Kamiyama (J-PARC/KEK) Public Information: Otomo (J-PARC/KEK) Treasurer: Nobuaki Takahashi (J-PARC/JAEA) Computing environment: Nakatani (J-PARC) Amenity: Nakamura: (J-PARC)

3. Program (tentative)

a. Lectures: material (science oriented)

1. General Introduction

- 2. Neutron source (reactor, pulse)
- 3. Neutron optics/polarization, neutron detection
- 4. Overview of material science
- 5. Overview of soft matter science
- 6. Industrial applications

b. Parallel courses (methodology)

Diffraction (powder)

Inelastic scattering (chopper, triple axis)

SANS & Reflectivity

Residual stress/radiography

Biological Crystallography

c. Laboratory Course (tutorial; candidates)

- * Powder diffraction: SHRPD (BL08; Kamiyama)
- * Inelastic scattering: 4 SEASONS (BL01; Kajimoto)
 - or AMATERAS (BL14; Nakajima) or Triple Axis (JRR-3: Kakurai)
- * Small-angle scattering: SANS-U (JRR-3; Shibayama) or TAIKAN (BL15; Suzuki)
- * Reflection: ARISA-II: (BL16; Yamada)
- * Neutron Spin Echo (JRR-3; Endo)
- * Residual stress: TAKUMI: (Aizawa, Harjo)
- * Biological Crystallography: iBIX (BL03; Kusakabe)

Appendix 6

Procedures to decide the host and location of Asia-Oceania Conference on Neutron Scattering (AOCNS)

<Basic Principles>

- The host and location of AOCNS will be circulated in the Asia-Oceania Region.
- Under normal circumstance, the host and location of AOCNS will be decided 4 years ahead of time and will be announced in the AOCNS just before it.
- The host and location of AOCNS will be decided in the AONSA EC meeting after reviewing the conference proposals submitted by neutron societies in the Region.
- Both paying regular member societies and non-paying societies can submit proposals.

<Procedure>

- 1. Call for conference proposals will be announced 6 months ahead of the AONSA EC meeting in which proposals will be reviewed and decided.
- Conference proposals should be submitted to the AONSA Office by the application deadline specified in the call for proposals. Under normal circumstance, the deadline is 1 month before the AONSA EC meeting. Only one proposal is allowed for each society.
- 3. The submitted proposals will be reviewed and decided in the AONSA EC meeting specified in the call for proposals.
- 4. The host and location of the next AOCNS will be announced in the AOCNS just before it.
- * If we apply these rules, we should announce Call for Proposals late this year and decide in the first face-to-face EC meeting in the next year. Or we can announce Call for Proposals early next year and decide in the EC meeting during the conference.
Discussions with IAEA- IAEA Regional Meeting 2010

Dear All,

As indicated in the work-action plan of our last IAEA CM, held on 12-14 August at ANSTO, a follow up meeting in Q4 2010 was scheduled. This is to inform you that an informal agreement was made to hold the new IAEA CM on neutron beams in Asia-Pacific on 27-29 October 2010 at KAERI, Daejeon, Korea, just before the 10th HANARO Symposium (1-2 November 2010). More information will follow in the coming days, including detailed terms of reference. Other important information:

As you might know, last week the technical working group for Asia-Pacific region (RCA) have worked on strategic topics to be identified and recommended for the new TC cycle (from 2012). Although it is very preliminary but it seems that one of the recommended priorities will be on RR utilization with emphasis on education, science and applications with neutron beams. This would open a possibility for developing a new regional TC project on this subject for 2012-2014. Indeed, these strategic topics still has to be approved in April 2010 by RCA national representatives, following the recommendations of the above technical working group. In this regard, informally, I would encourage you to approach your national RCA representatives and express your support for the need of a new regional project related to neutron scattering for science and applications. This would ensure that working group recommendations on neutron beams are approved in April by national representatives.

I will come back to you shortly. Best regards, Danas Ridikas, Research Reactor Officer

RULES for EC NOMINATION and APPOINTMENT

(Approved by the EC on May 22, 2010)

a) EC Members

1) The Board on behalf of the EC requests nominations from the AONSA Member Societies by the 2nd EC meeting in the 2nd year of any Presidency and informs the EC.

2) The EC is then formed for the next Presidency from those presented formally by current "paying regular member" society Presidents. Normally only members of the Nominating Society can be nominees.

3) Secretary collects all the nominations and presents to the Board. President announces the new Executive at the beginning of new Presidency.

b) EC Observers

Once one observer from each major neutron facility (which was listed as one of the major neutron facilities in a previous term) is recommended, he/she will be honored automatically unless there is any clear conflict.

c) Agreement:

Observer status is one way in which AONSA can welcome new associations. The EC encourages movement from observer status of Societies to full membership to keep a balance of EC membership.

	AONS	A Budge	t Plan (Ani	nual Fee)	
Date (Y/M/D)	Item	Income (US\$)	Expense (US\$)	Balance (US\$)	Remark
1			2008		
2008/11/28	Account open	\$ 1.0	0	\$ 1.00	
2008/12/19	Annual fee (JSNS)	\$ 2,000.0	0	\$ 2,001.00	
		2.00	2009		
2009/1/16	Annual fee (KNBUR)	\$ 2,000.0	0	\$ 4,001.00	Sa
2009/2/23	Interest	\$ 0.1	2	\$ 4,001.12	
2009/3/2	Annual fee (ANBUG)	\$ 2,000.0	0	\$ 6,001.12	
2009/3/23	Annual fee (TWNSS)	\$ 2,000.0	0	\$ 8,001.12	
2009/8/17	Interest	\$ 0.3	0	\$ 8,001.42	
			2010		
2010/2/4	Annual fee (JSNS)	\$ 2,000.0	0	\$ 10,001.42	
2010/2/22	Interest	\$ 0.3	4	\$ 10,001.76	
2010/3/3	Annual fee (KNBUR)	\$ 1,954.3	5	\$ 11,956.11	Transfer fee \$ 45.65
2010/3/3	Annual fee (ANBUG)	\$ 1,954.3	5	\$ 13,910.46	Transfer fee \$ 45.65
2010/3/24	Annual fee (TWNSS)	\$ 1,921.7	2	\$ 15,832.18	Transfer fee \$ 75.28
2010/4/13	Tsukuba congress center for AONSA board meeting (04/24)		\$ 305.98	\$ 15,526.20	payment to JAEA ¥ 27,520.00
2010/4/23	Domain name fee & maintance for 2 years		\$ 69.34	\$ 15,456.86	payment to KDDI ¥ 6,300.00
2010/May	EC meeting (Singapore)		\$ 400.00	\$ 15,056.86	Estimate
2010	AONSA office general expense		\$ 500.00	\$ 14,556,86	Estimate
2010/May	Award meeting		\$ 400,00	\$ 14,156.86	Estimate
2010/Oct	EC meeting (India)		\$ 400.00	\$ 13,756.86	Estimate
2010/Oct	AONSA school (India)		\$ 3,000.00	\$ 10,756.86	
2010/Nov	Informal EC meeting (HANARO)		\$ 400.00	\$ 10.356.86	Estimate

Appendix 3 AONSA Annual Fee and Budget Plan

Guidelines for AONSA Prize proposed by Working Group

Details of WG

According to the following directions issued at the Board Meeting on March 13, 2010, the Working Group was formed on April 20.

AONSA AWARD: AONSA award - establishment of the working group at March 13 meeting. Report of the group to the Board and then the next Executive. Membership and function of a working group to prepare rules for nomination and selection.

ACTIONS: Agreed Working group to define rules - The group (includes Chair) should have 5 members requested by Chair from "regular members - including India",) Vice President is Chair. He will accept the working group from the suggestions. Report for face to face EC in May. Decision of the rules at 2nd Face to face EC 2010. One big award for 2011. We should discuss the general philosophy of AONSA Award at EC meeting May 2010

WG Members:

Prof. Yasuhiko Fujii (AONSA Vice President; CROSS, Japan): Chair
Prof. Ki Bong Lee (AONSA EC; POSTECH, Korea)
Prof. Brendan Kennedy (AONSA EC; Univ. of Sydney, Australia)
Prof. Chih-Hao Lee (AONSA EC; NTHU, Taiwan)
Prof. R. Mukhopadhyay (AONSA EC; BARC, India)

Action Report & Plans

April 20 (Tue.) Working Group formed.

May 5 (Wed.).	1st Working Sheet to represent guidelines drafted by WG Chair (YF)	
distrib	puted	
May 10 (Mon.)	Deadline for WG members' comments	
May 12 (Wed.)	Distribute the summary of WG members comments and 2nd draft of	
	Working Sheet	
May 14 (Fri.)	Deadline for WG members' further comments	
May 17 (Mon.)	WG's 3rd draft of Guidelines (Ver.3, May 15, 2010) to be proposed to EC	
	as Appendix 6 of Agenda.	
May 22 (Sat.)	At EC in Singapore, WG's Guidelines to be discussed.	

	Three of WG members (Ki-Bong Lee, Brendan Kennedy and Chih-Hao			
	Lee) will attend EC. Brendan will present while Chih-Hao will take a note.			
June 30 (Wed.)	Based on EC's comments, the final guidelines in a form of the present			
Worki	ng Sheet and a draft of formally-written Rules will be prepared and			
distrib	uted to EC.			
July 31 (Sat.)	2nd draft of Rules will distributed to EC and its formal approval should be			
	made in the middle of August. Then WG's task will be over.			
August 31 (Tue.) Start forming the Selection Committee to be chaired by the Vice Pro-				
	according to the new Rules			
Oct. 4-9	The Selection Committee to be approved by EC in Mumbai, India.			
Nov. 1 (Mon.)	SC will announce the call-for nomination for the AONSA Prize 2011			
Feb. 28 (Mon.)	Deadline for nomination			
June 30, 2011	SC will submit name of recipient and record of selection process to EC			
	which will formally approve/announce(5 months prior to the Ceremony).			
Nov. 19-23, 2011	The AONSA Prize Ceremony at #1 AOCNS (Japan)			

Report on Guidelines

(WG's 3rd Draft)

(1) AONSA Prize a. Title of Prize : AONSA Prize

b. Aim of Prize: To recognize outstanding research career with a significant impact in the use or development of neutron science or technology in the Asia-Oceania Region.

c. How often : Every two years. The Prize Ceremony shall be held at the occasion of AOCNS (Asia-Oceania Conference on Neutron Scattering in 2011, 2015, 2019,,,,,) and ICNS (International Conference on Neutron Scattering in 2013, 2017, 2021,,,,,).

d. Recipient(s) : The AONSA Prize shall ordinarily be awarded to one person but may be shared by no more than three persons when all the recipients have contributions to the same accomplishment. Recipient(s) should receive the AONSA Prize only once.

e. Certificatte & money: The Prize consists of a certificate citing the contributions made by the recipient(s) and a monetary prize to be offered voluntarily by several Societies and Facilities (Not from regular annual fees of AONSA). The amount shall be

decided by the Executive Committee. Where the award is shared, the prize money shall be equally divided amongst recipients.

(2) Nomination

a. Nomination shall be opened to anyone whose work has significantly impacted in the Asia-Oceania Region.

b. Anyone (not a member of the AONSA Prize Selection Committee) may submit one nomination or seconding letter for the prize. Self-nomination should be excluded.

c. A nomination should include:

- A letter of not more than 5,000(?) characters evaluating the nominee's qualification for the prize and identifying the specific work to be recognized.
- A brief curriculum vitae
- A short list of major publications
- Up to five reprints/preprints
- At least two, but not more than four seconding letters

d. Nomination should be electronically submitted to Chair of Selection Committee (SC) by the deadline issued by SC.

e. Nomination shall be active through two review cycles (4 years for biannual prize). Nominations may be updated while still active.

(3) Selection Committee

a. AONSA Prize Selection Committee (SC) shall consists of five members chaired by the AONSA Vice President while other four members shall be appointed by the AONSA Executive Committee (EC). Their term shall be two years (one selection cycle). A member can be reappointed in the next selection cycle (up to two cycles for four years).

b. The SC shall be independent of EC and SC members shall represent a broad range of member societies (excluding observers if explicitly stated) and fields of neutron science and technology. Nominations shall be treated in confidence within SC.

c. SC members shall be posted on the home page of AONSA when SC issues the call-

for nominations.

d. SC shall submit the name(s) of recipient(s) with a report of nomination process to EC prior to five months to Prize Ceremony at AOCNS or ICNS.

e. SC shall carry out AONSA Prize Ceremony at AOCNS or ICNS.

<The End>

Appendix 5 Guidelines for Operation of AONSA Schools

Rob Robinson and Sung-Min Choi, 20 August 2009

These guidelines are based on the experience so far with the AONSA Schools held in Daejon (2008) and Sydney (2009)

- 1. The school should be able to handle 40 or more graduate students; it is desirable to include hands-on practice on real neutron-scattering instruments if at all possible;
- 2. No more than 50% of the student attendees should be from institutions in the host country; at least 50% should come other user communities in the Asia-Oceania region, with a reasonable spread;
- 3. The host organisation pays for all local expenses (accommodation, meals, local transportation) for both students and lecturers;
- 4. Airfares are the responsibility of the students (or their home institutions) and lecturers (or their home institutions). The only exceptions are students from developing countries, and we have been able to support 4-5 such students at each school, so far;
- 5. Regarding lecturers, it is desirable to have a minimum of:

At least 2 domestic lecturers 2 lecturers provided by JSNS/J-PARC 2 lecturers provided by KNBUA/HANARO 2 lecturers provided by ANBUG/ANSTO

It is desirable to have some continuity in the pool of lecturers from the previous school or schools;

6. We should seek funds to support student attendance from developing countries, from the IAEA and elsewhere.

Appendix 6 <u>Report from School Organizing Committee of AONSA Neutron School 2010</u>

The 3rd AONSA Neutron School is planned to be held at Mumbai during 4-9 October 2010. The **announcement** and some **detailed information** are already available on the AONSA website.

Please see below a few issues relevant to the Indian AONSA School that may be discussed at the EC meeting at Singapore.

1. Lectures

The following offers are available:

John White: "Introduction to Neutron Scattering" and "Neutrons and

Nanotoxicology" (about the use of reflectivity for studying protein nanoparticle interactions) <u>Robert ROBINSON</u> suggested Dr. Michael James as a lecturer.

<u>Michael James:</u> **reflectometry**, and general introductory lectures into elastic scattering, research reactors, neutron optics etc.

Sung-Min Choi: SANS

<u>Masatoshi Arai:</u> "**pulsed neutron sciences**" including neutron production, neutronics, instrumentation, and experimental techniques, and applicable sciences.

<u>Brendan Kennedy</u> and <u>Kazu Yamada</u> offered to find suitable lecturers from Australia and Japan respectively.

These already cover many important techniques. We would also like to have others teaching diffraction and inelastic scattering. In addition, we would have complementary/supplementary lectures by speakers from India.

2. Selection of students

I think it should be fine if Australia and other regions select their students and let us know. EC may discuss how many students may be accepted from each region.

3. AONSA/ IAEA support for travel of students from developing countries

IAEA are in the clearance process as on 11 May 2010. It will take additional 1-2 weeks. EC may decide how many students AONSA could support. We are not requesting from AONSA any other financial support for the School.

4. Schedule

The School is planned from 4th October (Monday) to 10th October (Saturday). We expect about 5 lectures per day for the first three days, followed by two days of hands-on experiments by the participants.

Proposed EC meeting during the AONSA School

The EC meeting could be held on 9th and 10th October 2010 (Friday and Saturday). Any suggestions are welcome.

Appendix 7 AONSA Neutron School @ Tokai *<tentative plan>*

2010.1.15

2010.2.10

2010.3.2/2010.3.12/2010.3.15/2010.3.18/2010.4.2/2010.4.28/2010.5.7

Mitsuhiro Shibayama

1. Dates and Place

Dates: Nov. 14 (Sun), 2011 - Nov. 18 (Fri), 2011

(The last week of the 4th cycle of JRR-3),

followed by AOCNS (Nov. 20 - Nov.23), IPS11 (Nov. 20 - Nov.23),

Annual Meeting of JSNS (Nov. 20 – Nov.23)

Place: J-PARC and JRR-3 and

Ibaraki Quantum Beam Research Center (IQBRC; 1F and 2F)

2. Budget

J-PARC, AONSA

3. Accommodation

Guest House (@ KEK), Masago, etc.

4. Dining

??

5. Program

a) Lectures:

Main courses material (science oriented)

Parallel courses (methodology)

- b) Laboratory Courses: (tutorial)
- c) Presentation

6. Facility

Lecture rooms: Meeting Room (IQBRC 1F), Meeting Room & Multi-purpose hall (IQBRC 2F) (pre-reserved on 2010.2.17)

personal computer: at least 10,

software: Igor or Excel, power point, word

7. Information

MLF (or J-PARC) home page

5. Committees

(a) International Advisory Board (executive of AONSA) Australia (ANBUG (The Australian Neutron Beam Users Group) John White (Australia Nat. U., Australia) Rob Robinson (ANSTO, Australia) Branden Kennedy (, Australia) JSNS (The Japanese Society for Neutron sciecne) Yasuhiko Fujii (JAEA, JAPAN) Kazuyoshi Yamada (Tohoku U, JAPAN) Korea (KNBUA; The Korean Neutron Beam Users Association) Mahn Won Kim (KAIST, Korea) Ki Bong Lee (POSTECH, Korea) INSS (The Indian Neutron Scattering Society) Samrath L. Chaplot (BARC, India) Dhananjai Pandey (Banaras Hindu University, India) TWNSS (The Taiwan Neutron Science Society) Wen-Hsien Li (NCU, Taiwan) Chih-Hao Lee (NTHU, Taiwan)

(b) Task Force: JSNS (domestic advisory committee for JSNS)

Arai (J-PARC/JAEA), Kakurai (JAEA), Kanaya (Kyoto U), Kawabata (Kyoto U), Murakami (KEK), Shibayama (U Tokyo), Niimura (Ibaraki U), Suzuki (NIMS, JSNS), Seto (KEK), Takahashi (Ibaraki Pref.), Iwasa (Tohoku U.)

(c) Executive Committee

Chair: Mitsuhiro Shibayama (ISSP, U. Tokyo) Vice Chair: Masatoshi Arai (J-PARC/JAEA) Secretary: Kenji Nakajima (J-PARC/JAEA) Program: Takashi Kamiyama (J-PARC/KEK) Public Information: Toshiya Otomo (J-PARC/KEK) Treasurer: Nobuaki Takahashi (J-PARC/JAEA) Computing environment: Takeshi Nakatani (J-PARC) Amenity: Mitsutaka Nakamura: (J-PARC)

6. Program (tentative)

a. Lectures: material (science oriented)

7. General Introduction

- 8. Neutron source (reactor, pulse)
- 9. Neutron optics/polarization, neutron detection
- 10. Overview of material science
- 11. Overview of soft matter science
- 12. Industrial applications

b. Parallel courses (methodology)

Diffraction (powder)

Inelastic scattering (chopper, triple axis)

SANS & Reflectivity

Residual stress/radiography

Biological Crystallography

c. Laboratory Course (tutorial; candidates)

(to be selected from the following candidate experiments)

- * Powder diffraction: SHRPD (BL08; Kamiyama)
- * Inelastic scattering: 4 SEASONS (BL01; Kajimoto)

or AMATERAS (BL14; Nakajima)

- * Small-angle scattering: SANS-U (JRR-3; Shibayama) or TAIKAN (BL15; Suzuki)
- * Reflection: ARISA-II: (BL16; Yamada)
- * Neutron Spin Echo (JRR-3; Endo)
- * Residual stress: TAKUMI: (BL19; Aizawa, Harjo)
- * Biological Crystallography: iBIX (BL03; Kusaka)

d. Presentation

group presentation in an auditorium

e. Excursion

?

2010.05.08

Plan for The 1st AONSA Conference (AOCNS)

1. Dates and Place

Date: November $19^{th} - 23^{rd}$, 2011 (Welcome party on Nov. 19^{th})

- AONSA School will be held prior to AOCNS from November 14th to 18th, 2011 in Tokai
- Annual meeting of Japanese Society for Neutron Science (JSNS) will be simultaneously held with AOCNS.
- International Symposium on Pulsed Neutron and Muon Science (IPS) will be simultaneously held with AOCNS.

Place: JAEA, Tokai (tentative)

Expected number of participants: 300- 350

2. Preparatory Committee (which will move to the Organizing Committee with a chair person of the next President of JSNS whose term is from Apr. 2011 to Mar. 2013.)

Chair: Toshiji Kanaya (Kyoto Univ.)

Members: Masa Arai (JAEA), Takashi Kamiyama (KEK), Yukio Morii (Hitachinaka Techno Center), Toshiharu Fukunaga (Kyoto Univ.), Hideki Yoshizawa (ISSP, Univ. Tokyo), Fujio Maekawa (JAEA), Yukio Noda (Tohoku Univ.), Susumu Ikeda (KEK), Michihiro Furusaka (Hokkaido Univ.), Jun-ichi Suzuki (JAEA), Hiroyuki Suzuki (NIMS)

Observers: Kazuyoshi Yamada (President of JSNS, Tohoku Univ.), Mitsuhiro Shibayama (Principal of AONSA School, Univ. Tokyo)

Local Executive Committee will be formed shortly.

3. International Advisory Board

• Not yet organized. The members will de decided according to the decision of the next EC of AONSA.

4. International Scientific Program Committee

• Not yet organized. The members will de decided according to the decision of the next EC of AONSA.

Guide Lines for AOCNS

The conference of AONSA, which tentatively terms Asia-Oceania Conference for Neutron Scattering (AOCNS), is in principle held every 4 years staggered to ICNS in a country belonging to AONSA.

The host country is decided in Executive Committee (EC) of AONSA.

General Issues

- 1. AONSA member countries and observer countries must make all possible efforts to have participants to AOCNS as many as possible.
- 2. AONSA encourages worldwide participation to AOCNS from counties not belonging to AONSA.
- 3. EC of AONSA will be held during AOCNS.

Scientific Issues

- 1. <u>AONSA Awards:</u> To be presented at AOCNS. Detailed procedure for selection will be established by EC of AONSA.
- 2. <u>International Advisory Board:</u> Member countries as well as observer countries will nominate members of International Advisory Board. Final selection of the members will be done by the host country.
- 3. <u>International Scientific Program Committee:</u> Member countries as well as observer countries will nominate members of International Scientific Program Committee. Final selection of the members will be done by the host country.
- 4. <u>Recommendation of Invited Speakers:</u> Members of International Scientific Program Committee have a right to nominate plenary speakers and invited speakers. The numbers of recommended speakers must be discussed. Final selection of the plenary speakers and the invited speakers will be done by the Organizing Committee.
- 5. <u>Presentations:</u> Oral presentations include AONSA award lectures, plenary lectures, invited lectures, and some lectures recommended by the Organizing Committee. Other contributions are in poster presentation. Number of oral presentations will be decided by the Organizing Committee.
- 6. <u>Conference Proceedings:</u> The conference proceedings will NOT be published at the moment due to the financial and scientific problems. However, EC of AONSA will continue the discussion about the publication of the conference proceedings.

Budget

- 1. <u>Conference Budget:</u> The host country must cover all the budget regarding the AONSA conference, except the travel fee and living expense for the invited speakers.
- 2. <u>Support for Invited Speakers:</u> AONSA/their home institutes can cover the travel fee and the living expense for some invited speakers.
- 3. <u>Support for Developing Countries:</u> AONSA financially supports some participants from developing countries, especially for young scientists to attend the AONSA conference and school on the basis of the AONSA budget.
- 4. <u>Registration Fee:</u> Registration fee can be collected from the participants. The fee will be determined by the Organizing Committee of the host country. Some waiver system on demand must be considered.

Procedures to decide the host and location of Asia-Oceania Conference on Neutron Scattering (AOCNS)

<Basic Principles>

- The host and location of AOCNS will be circulated in the Asia-Oceania Region.
- Under normal circumstance, the host and location of AOCNS will be decided 4 years ahead of time and will be announced in the AOCNS just before it.
- The host and location of AOCNS will be decided in the AONSA EC meeting after reviewing the conference proposals submitted by neutron societies in the Region.
- Both paying regular member societies and non-paying societies can submit proposals.

<Procedure>

- 1. Call for conference proposals will be announced 6 months ahead of the AONSA EC meeting in which proposals will be reviewed and decided.
- Conference proposals should be submitted to the AONSA Office by the application deadline specified in the call for proposals. Under normal circumstance, the deadline is 1 month before the AONSA EC meeting. Only one proposal is allowed for each society.
- 3. The submitted proposals will be reviewed and decided in the AONSA EC meeting specified in the call for proposals.
- 4. The host and location of the next AOCNS will be announced in the AOCNS just before it.
- * If we apply these rules, we should announce Call for Proposals late this year and decide in the first face-to-face EC meeting in the next year. Or we can announce Call for Proposals early next year and decide in the EC meeting during the conference.

	Calendar of Major Events (Updated)	
2010		
3/8-3/12	International Collaboration on Advanced Neutron Sources (Grindelwald, Switzerland)	
3/13	AONSA Board Meeting(Tokyo, Japan)	
5/22	The 1st AONSA EC Meeting	
6/26-6/30	American Conference on Neutron Scattering (Ottawa, Canada)	
7/5-7/8	8th International Workshop on Polarised Neutrons in Condensed Matter Investigations(Delft, Netherlands)	
8/29-9/3	26th European Crystallographic Meeting(Darmstadt, Germany)	
10/4-10/9 3	AONSA Summer School(India), The 5th AONSA EC Meeting (Mumbai, India)	
10/31-11/3	10th Conference of the Asian Crystallographic Association (Bussan, Korea)	
11/1-11/2	HANARO International Symposium, In celebration of New Cold Neutron Facility. (Daejeon, Korea) Informal AONSA EC Meeting during AsCa2010 or HANARO symposium (Korea)	
2011		
1/17-1/21	European Conference on Neutron Scattering (Prague, Czech)	
8/23-8/31	XXII Congress and General Assembly of the International Union of Crystallography(Madrid, Spain)	
	crystanography (criteria, span)	
11/14-11/18	AONSA Neutron School (Tokai, Japan)	
11/14-11/18 11/19-11/23	AONSA Neutron School (Tokai, Japan) AOCNS (Tokai, Japan)	

Directories and File Naming for AONSA Archive.

- Under AONSA-Archive, there are sub-directories for different subjects.
- Here, YYYY-MM-DD specifies the year, month and date of occasion.
- 1. AONSA Articles
 - File Name:

AONSA Article-YYYY-MM-DD

Here, YYYY-MM-DD specifies the date of change.

Board Meetings (this folder will include agenda and minutes)
 File Name:

Board-YYYY-MM-DD-Agenda

Board-YYYY-MM-DD-Minutes

3. EC Meetings (this folder will include agenda and minutes)

File Name:

EC-YYYY-MM-DD-Agenda

EC-YYYY-MM-DD-Minutes

4. Informal Meetings (this folder will include agenda and minutes)

File Name:

IM-YYYY-MM-DD-Agenda

IM-YYYY-MM-DD-Minutes

- 5. Newsletters File Name: NL-YYYY-MM-DD
- 6. Working Group (this folder will include agenda, minutes and final reports) File Name:

WG-XX-YYYY-MM-DD-Agenda

WG-XX-YYYY-MM-DD-Minutes

WG-XX-YYYY-MM-DD-Report

Here, XX are letters which specify working groups.

7. AOCNS (this folder will include documents and posters related to the conference)

File Name:

AOCNS-YYYY-MM-DD-XXXX

Here, XXXX are letters which specify type of documents. A sub-directory for

each conference should be useful.

- AONSA Award (this folder will include any documents related to the award) Award-YYYY-MM-DD-XXXX Here, XXXX are letters which specify type of documents.
- 9. Fee-Finance (will include documents for annual fee and other financial matters) File Name:

AF-YYYY-XXXX-Invoice AF-YYYY-XXXX-Receipt

Budget-YYYY-Plan

Budget-YYYY-Balance

Here, AF stands for annual fee and XXXX are letters which specify member society.

10. Others







A ustrails N sutren B sam	ANBUG				
Group	Act	tivities			
Correspondence:					
	Concern over operations at t	Concern over operations at the Australian Synchrotron.			
	Problems of OPAL Schedule	Problems of OPAL Schedule – "Flexible Fuel Management"			
	Building Works at Bragg Ins	Building Works at Bragg Institute – User support			
	Support for Australian Stude	Support for Australian Students to attend AONSA School			
	Meetings:				
	ANSTO - AINSE Neutron School on Dynamics and Kinetics,				
		15 - 20 August 2010.			
	Neutrons and Food : 31 October – 3 November 2010				
	9th AANSS Symposium : 1 – 3 December 2010				
Current Membership of ANBUG: 332. The membership includes scientists from Australia, New Zealand and 16 other countries					
http://	www.anbug.org/				

Dynamics and Kinetics Neutron School 2010 August 15-20

General intro to neutron scattering in kinetics and dynamics John White A day in the life of a neutron (neutron fundamentals) Andrew Studer Overview of elastic neutron-scattering techniques Michael James Overview of quasi-elastic neutron-scattering techniques Nicholas de Souza Overview of inelastic neutron-scattering techniques Mona Yethiraj Overview of polarised neutron-scattering techniques Frank Klose Biomolecules in action Andrew Whitten Writing a proposal and reporting results Joseph Bevitt Powder diffraction and Rietveld analysis Chris Ling Gas-storage materials and other recent work completed on WOMBAT Vanessa Peterson Neutrons and multiferroics Annemieke Mulders Use of in situ neutron diffraction for resolving reaction kinetics Daniel Riley Single-crystal technique and its applications Ross Piltz Lattice Dynamics Mona Yethiraj Structural changes related to thermal mechanical processing Klaus-Dieter Liss Understanding diffraction and inelastic neutron-scattering data via modelling Don Kearley



























KNBUA Meetings

• KNBUA Annual General Assembly

(14 May, KBL elected as a new president)

- * The HANARO Symposium scheduled in November
 - Neutron Beam Applications
 - Materials Irradiation Test
 - Radioisotopes
 - Activation Analysis
 - Research Reactor

• KNBUA Steering Committee Meetings (3-4 times/yr)

• Workshops and Schools sponsored by KNBUA









August 24-26, 2009, KAERI, Daejeon









Workshop on Neutron Scattering Science 2009					
Time : 20/11/2009~22/11/2009 Place : Nantou HanShe Forest Education Centre , Taiwan <u>http://ntu.nantou.com.tw/</u>		2009:00-00 20 20 20 20 20 20 20 20 20 20 20 20 2			
Attendant	Number	PERHANNA /	Ster BR (Pett)		
Invited speakers	7	Posto中手数被装器分组 高级标度说到常能具数进分机	度 推 款援 (中山大平) 植种茎 散现 (中老大平) 再形尤 款现 (東辛大平) 莽志等 款班 (清辛大平) 稀仁吟 就版 (清辛大平) 通灯餅 款版 (清辛大平)		
Researchers	26	ALEMNYDRESON			
Postdoctoral Fellow	8	ANTERARA ON ANTOTELEOS			
Students and Research Assistants	78	##18444918918-18-18449-1991- ##184449918918-1891-1991-1991-1991-1991-19			
Total 119		1010 617448 #71884294 Care Land Land			
(Number of Registers : 152)					







Neutron Activities since May, 2009

27 (person-times) PI and students went abroad f or neutron experiments "officially".

(22 ANSTO, 3 JPARC, 1 ILL, 1 NIST)

Eight young scientists attended the AONSA sum mer school last year.

One visiting scientist, Dr. Lieh-Jeng Chang (Nati onal Tsing Hua University), visiting JPARC for o ne year. He-3 polarizer.










Local Users

HRPD

Dept. of Physics, University of Indonesia (UI), Jakarta Dept. of Engineering Materials, University of Indonesia (UI), Jakarta Dept. of Physics, 10 November Institute of Technology (ITS), East Java Dept. of Chemistry, Bandung Institute of Technology (ITB), West Java Indonesian Sciences of Institute, Centre for Physics, Serpong, West Java

esidual Stress

Residual Stress Measurement Diffractometer Dept. of Mechanical Eng., University of Diponegoro, Central Java Dept. of Mechanical Eng., University Sebelas Maret, Central Java

Dept. of Physics, 10 November Institute of Technology (ITS), East Java Indonesian Sciences of Institute, Center for Biotechnology, Bogor, West Java Dept. of Physics, University Lambung Mangkurat, South Kalimantan Dept. of Chemistry, Gadjah Mada University (UGM), Central Java

Dept. of Engineering Materials, UI, Jakarta

Regional & International Users

HRPD

Dept. Materials Sci. & Eng., Nangyang Technology of University, Singapore Dept. Materials Res. & Education Centre, Auburn University, USA

Residual Stress Measurement Diffractometer Dept. of Mechanical Engineering, Tokushima University, Japan Dept. of Mechanical Engineering, Kobe City College of Technology, Japan

NIS

Dept. of Chemistry niv. South Gujarat, India University of Queensland, Australia(*) Centre for Biomolecular Engineering,

Journal of Applied Crystallography	Cation distribution in spinel (Mn,Co,Cr) ₃ O ₄ at roor temperature
ISSN 0021-8898	A Purwanto ^a * A Faiar ^a H Mugirabardio ^a L W Fergus ^b and K Wang ^b
Received 1 October 2009	A. Furwanto, A. Fajar, H. Mughanarujo, J. W. Fergus and K. Wang
Accepted 3 March 2010	^a Center for Technology of Nuclear Industrial Materials, National Nuclear Energy Agency (BATAN), Gedung 40, Kawasan Puspiptek, Serpong Tangerang 15314, Indonesia, and ^b Materials Research and Education Center, Auburn University, AL 36849, USA. Correspondence e-mail: purwanto.agus@gmail.com
	As part of a study of the long-term operation of solid-oxide fuel cells, three $(Mn,Co,Cr)_3O_4$ samples have been synthesized and characterized. X-ray and neutron diffraction patterns from the powder samples at room temperature were measured and the data were co-refined. The neutron data were indispensible in locating Mn , Co and Cr within the crystallographic unit cell with their respective atomic occupancies. Two of these samples have been identified as cubic $Mn_{CO}CO_{CC}C_{CC}O_{C}$ and $Mn_{CO}CO_{CC}O_{C}$. The third is a two-
	phase sample containing cubic $Mn_{1.66}Co_{1.34}O_4$ and tetragonal $Mn_{2.05}Co_{0.91}O_4$ in
	a 59.1 (6):40.9 (6)% mass fraction ratio. Cr, which might be introduced from





	Publications	
	Starling: Interconverse and Methods in Physics Research A 600 (2000) 288-239	
100000	Contents lists evailable at ScienceDirect	
	Nuclear Instruments and Methods in Physics Research A	adim.
EL SEVIER	journal homepage: www.sizevier.com/locatemima	_
A 36 m SANS BATA maltoside micelles Edv. Giri Rachman Putra	N spectrometer (SMARTer): Probing <i>n</i> -dodecyl- structures by a contrast variation	β-d-
A 36 m SANS BATA maltoside micelles Edy Giri Rachman Putra Anstrea Surring Laborator, National N ARTICLE INFO	N spectrometer (SMARTer): Probing <i>n</i> -dodecyl- structures by a contrast variation *. Abarrul Ikram char Innys Aprice (Industria (IATAN) Geling 47 Rowson Puopers Segung, Togenog 1334 A B S T R A C T	β-d-
A 36 m SANS BATAI maltoside micelles Edy Giri Rachman Putra Amater Scattering Laboratory, National N A R T I C L E 1 N F O Available online 27 November 2008	N spectrometer (SMARTer): Probing <i>n</i> -dodecyl- structures by a contrast variation *. Abarrul Ikram star Impy Agency of Industrial (BATAN) Gelling #I Rowman Property Segung, Tangerup 19394. A B S T R A C T The performance of a 36m small-angle neutron scattering (SANS) BATAN s	β-d- bianesa pectrometer (SMARTer) i















Ne	ICNX, AONSA
a.	Workshop on Neutron and X-Ray Scattering in Materials Science and Biology, the International Conference on Neutron and X-Ray Scattering 2007 (CNX2007), BATAN, July 23 – 28, 2007, Puspiptek Serpong, Indonesia (~ 60 local students/scientists and 9 international participants)
b.	The 1 st AONSA Neutron School, KAIST, August 18 – 23, 2008, Daejeon, Republic o Korea (Sistin Asri Ani, Dwi Hudiyanti).
c.	The 2 nd AONSA Neutron School, ANSTO, August 16 – 21, 2009, Sydney, Australia (Arum Patriati, Arief B. Witarto)
d.	The International Conference on Neutron and X-Ray Scattering 2009 (ICNX2003), Malaysian Nuclear Society, June 28 – July 1, 2009, Kuala Lumpur, Malaysia.
e.	The 3 rd AONSA Neutron School, ANSTO, October, 2010, Mumbai, India (Student1, Student2).
f.	The International Conference on Neutron and X-Ray Scattering 2011 (ICNX2011), 2011, Taiwan.
	The /th AONSA Neutron School 2011 Japan (Student1, Student2)









































































An Update of Neutron Activities in China Since Feb 2009

Chun Loong ckloong@gmail.com

Reported as an observer from China

Neutron Sources

CARR-Neutron Scattering Laboratory of China Institute of Atomic Energy (CIAE) CPHS-Dept. Engineering Physics of Tsinghua University (THU) CSNS-Inst. High Energy Phys. (IHEP) & Inst. Phys (IoP) of Chinese Academy of Sciences (CAS)

Major Participants

CAS: Inst. Chem. (IoC), Inst. Modern Phys. (IMP), Graduate School Chinese University of Hong Kong: Phys. Dept. Jinan University, Guangzhou: Phys. Dept. Peking University, Beijing: College of Chem. & Mol. Engineering, and Phys. Dept. Shandong University, Jinan: State Key Lab. Crystal Materials Sun Yat-Sen University, Guangzhou: School of Phys. & Engineering. University of Hong Kong: Phys. Dept.

AONSA Executive Committee Meeting, Singapore, May 22, 2010











Expect Increasing Interactions with AONSA				
 To Join the AONSA Schools. Universities in South China (scattering research through that the learned skills and ex SYSU is pursuing a PhD deg 	Guangdong, Hong Kong & Macau interactions with neutron facilities i periences will benefit the CSNS P gree at KEK/J-PARC. B Wang) hope to prompt neutron- n Asia-Oceania region so roject. , e.g., a student from		
The Graduate University for Advanced S Internatinal Student Admission, 2009 O Applying for Japanese Government Schw ⁽¹⁾ Type at an any for advance, we fin page	tudies	O ASSEA		
), Analohan da Agaptanan - The SERENTA Agaptania (Industrian 2010 <u>998</u> - Physical Charles and Agaptanan (Internet State 1998) - Hammana M. In: Antonial of the Agaptanan (Interpolations for the Ag	Australia-China Soncial Fund for SAT C (Australia-China Soncial Fund) (Australia-China Soccial Fund) Australia-China Soccial Fund) Australia-China Soccial Fund) Australia-China Soccial Fund) Australia-China Soccial Fund Australia-China Soc			
AONSA	A Executive Committee Meeting, Singapore, M	ay 22, 2010 93		

Appendix 14 Facility Reports

- 1. ANSTO (Shane Kennedy)
- 2. BARC (S.M. Choi for Samrath Chaplot)
- 3. J-PARC & JRR-3 (Masatoshi Arai & Mitsuhiro Shibayama)
- 4. HANARO (Kye Hong Lee)
- 5. SIKKA (Chih-Hao Lee)
- 6. BATAN (Edy Giri Rachman Putra)
- 7. CSNS (M. Arai for Fangwei Wang)
- 8. CARR & CPHS (S.M. Choi for Chun Loong)

Note:

- Facility reports from CARR & CPHS (which is combined with
- association report) are included in the Appendix 13 Association Reports.
- Facility report from Malaysia (which is combined with association report)
- is included in the Appendix 13 Association Reports.













The NBI-2 project; from July 2009 funded through Australia's Economic Stimulus Plan (\$37M)								
Instrument/ subproject	Nominal Budget	Allocated budget	Approval date					
High-Resolution Spectrometer (Backscattering)	\$10 M	?	June 2010					
Small-Angle Scattering Instrument	\$10 M	\$ 7.3 M	Apr 2010					
Radiography/Tomography Instrument	\$ 5 M	\$ 3.2 M	Dec 2009					
split Cold Neutron Guide (i.e. 2 guides)	\$ 5 M	?	Aug 2010					
Sample Environments (12 Tesla, 15 mK, etc.)	\$ 5 M	\$ 3.2 M	Dec 2009					
Total	\$ 37 M							
Government Condition: "spend the money within four years"								
(July 2009 to June 2010)								
		Gn						








































































Ex-core Neu	Itron Facility	(ENF)				
	Team Member - S.W Lee					
 application boron neutron capture therapy auto-radiography for boron distribution measurement phase contrast image graing based neutron interferometer dark field image high resolution neutron image dynamic neutron image neutron detector development station 		characteristics				
	Beam filter Max thermal flux Gamma dose Cd ratio Internal space	Si(D20cm, L40cm), Bi(D10cm, L15cm) 1.49x10 ⁹ n/cm ² -s 80cGy/h 152 5.5m(length)x3.5m(height)x 4m(width)				
	detectors	science CCD (Andor DW936N-BV) Image plate Photo multiplication CCD				
	options	Cold neutron extraction Double monochromator High resolution revolution hole Si gratin gfor phase imaging Neutron polarizer				
	S.W. Lee, sw@kaeri	.re.kr				
· 한국원자력연구원						





40M SANS								
1	specifications	40M-SANS	18M-SANS					
and a second second	guide length	20 m	9 m					
		ORDELA 21000N	ORDELA 2660N 2D-					
	detector	2D-PSD (100 x 100	PSD					
		cm)	(64.5 x 64.5 cm)					
	Monochromator	NVS	NVS					
Sample Environments Available	Q-range(/)	0.0015(0.0008) ~ 1.0	0.002 ~ 1.0					
Automatic Sample Exchan Circulation Bath (Tempera	Neutron polarizer	YES	YES					
한국원차력연구원	scale	1 ~ 400 nm	1 ~ 150 nm					

















REF-V sample environment



Helmholtz coil (500G)



magnet (0.8T), power supply



polarizer (m=3)





Liquid Cell(sogang univ)



Vacuum Furnace (650K)



Instrumental Parameter	
Monochromator	Pyrolytic Graphite (002); 0.4°mosaic
Incident neutron wavelength	$\lambda \!= 4.75~\text{\AA}$
Wavelength resolution	2 % λ/λ
(nλ) Filter	Beryllium filter; 60 mm(w) x 50 mm(h) x 50 mm(l
Beam size (continuously variable)	0.01 x 50 mm to 5 x 50 mm
Q range (th-th mode)	0.03 to 0.23 Å ⁻¹
(th-2th mode)	0.03 to 0.6\AA^{-1}
Beam size (continuously variable)	0.01 x 50 mm to 5 x 50 mm
Monochromator-to-sample distance	2 m
Sample-to-detector distance	2 m
Detector	Linear detector, He ₃ 6atm











Neutron Depth Profile in	the world			
Institution	Reactor	(neutron/cm ² s)	Neutron beam	
NIST (USA)	NBSR	1.2×10 ⁹	Cold/guide	
KAERI (Korea)	HANARO Solution (Predicted for Concept)		Cold/guide	
ILL (France)	Grenoble, France	1.0×10 ⁹	Cold/guide	
NIST (USA)	NBSR	4.0×10 ⁸	Thermal/guide	
BNL (USA)	HFBR	2.3×10 ⁸	Cold/guide	
KAERI (Korea)	HANARO	1.6×10 ⁸ (predicted for CG2B line)	Cold/guide	
HZB (Germanay)	BER II	~10 ⁸	Cold/guide	
University of Texas-Austin	TRIGA Mark II	~107	Thermal/direct	
Texas A&M University	Mark II research reactor	1.4×10 ⁷	Thermal/direct	
University of Michigan	University of Michigan Ford Nuclear Reactor		Thermal/direct	
한국원차력연구원			68	









Beam port	CG4	
Size of beam at reactor face	50 x 200 mm ² (W x H)	如果
Take off angular range 20%	$30^{\circ} \le 2\Theta_{M} \le 135^{\circ}$	能白取住
Monochromator crystals	HOPG, η = 24', double focusing, Si(111)	PG及 Si
Monochromator dimensions	220 x 340 mm2 (Width x Height)	單色晶體
Useful wavelength range	$1.74 \text{ Å} \le \lambda \le 5.8 \text{ Å}$ (PG 002)	
Correspond. wave-vector range	$3.6 \text{ A}^{-1} \le k_i \le 1.0 \text{ A}^{-1}$ (PG 002)	
Correspond, incident energy range	$2.4 \text{ meV} \le E_i \le 27 \text{ meV} (PG 002)$	2.4 meV 5 E, 531 met
Virtual source aperture	$0 \le W \le 65 \text{ mm}$; II – 220 mm	with (\$1.111)
Distances - cold source - monochromator - reactor face - monochromator - yirtual source - monochromator - monochromator - sample	6715 mm 2300 mm 2100 mm 2100 mm	
Collimators a1 (pre-monochromator) a3 (post-monochromator)	20', 40', 60', open 20', 40', 60', apen	
$\label{eq:1.1} \begin{array}{llllllllllllllllllllllllllllllllllll$	Higher order suppression Higher order suppression Fast neutron suppression	





SI	KA-Schedule							SIKA					
Task Name	200	5	Ge 1 Ge	2007	4 001	2008	Q# 4 Q#	20	09	ar 4 04	2016	Ge 3	
SIKA Project Phane													
PRIMARY Spectrometer							_	+				-	
Conceptual Design				-				-				-	
McStas (Perhananan, Optimization)		_			-								
MCNP Source													
MCNP Shiekding													
Gonceptual Design Drawings													
Engineering Design						-							
Colimator change, Input optics													
Shielding													
Procument												-	
Monochromator (PG & Si)			1										
Collimators, input optica								-	- 1				
Sample Module								-	-				
Shielding							_	-					
Electronic Components									-				
Dance Floor								_					
SECONDARY Spectrometer									_				
Conceptual Design	_				-								
Engineering Design						Statistics.	_	-					
Procument								in such that					
INSTALLATION													
Memorator-Shielding													
Mechanical Parts			_	_				-		_		-	
Electrical Parts									-				
IT Systems													
concerning and particular states													
OPERATION								-					













Four Circle Diffractometer/Texture Diffractometer (DN2)

Tri Hardi Priya

Status : Running

Mode:

- Texture measurement
- Monochromator bent Si (311)
- Neutron wavelength λ = 1.278 Å
- **•** Max neutron flux $\sim 3.8 \times 10^5$ cm⁻² s⁻¹
- Collimation system 20' and 30'
- $\theta 2\theta$ range $0^{\circ} 130^{\circ}$
- ϕ range 0° +360°
- χ range -40° +90°
- Materials Analysis Using Diffraction (MAUD)

Stress measurement of industrials alloys & steel
 Nuclear materials research (CRP - IAEA)

Development :

- Flight tube from first collimator
- Beam alignment (focused beam)
- Mini furnace for in situ experiment

Utilization :

Aluminum & brass, steel (industrial products)

Triple Axis Spectrometer (SN1)

Status : Running

Mode:

- Unpolarised neutron
- Double-axis measurement
- Monochromator Ge (111)
- Neutron wavelength λ = 1.4 Å
- Max neutron flux ~ 10⁵ cm⁻² s⁻¹
- Collimation system 20' and 30'
 Sample table -5° < 20 < +100°

Development

- Inelastic measurement (current setting)
- Micro-controller for mechanical movement
- Background reduction
- Polariser (long term)

Utilization :

Low resolution diffractometer (testing)



1996 (2004 – 2006)

Neumon Radiography (NR)

Status : Running

Mode:

- Film & real time method
- Neutron flux $\sim 10^6$ to 10^7 n cm⁻² s⁻¹
- Beam size at sample 30 cm in diameter
- Collimator L/D ratio 83
- Cadmium ratio 6.4
- Neutron/Gamma ratio > 10⁵ n cm⁻² mR⁻¹
- Gd & X-ray film converter screen scintilator detect
 ICCD based electronic imaging system

Development

Initial work for developing tomography method

Utilization :

Engine, plant, soils, electronic components (testing)
 Nuclear materials research (CRP - IAEA)



High Resolution Powder Diffractometer (DN3)

Status : Running

Mode:

- Diffraction measurement Monochromator hot-pressed Ge (331)
- Take of angle $2\theta_{M} = 89^{\circ}$
- Neutron wavelength $\lambda = 1.822$ Å
- Max neutron flux ~ 10³ cm⁻² s⁻¹
- Collimation system 1st collimator NG2 (23.4') 2nd collimator 20'
 - 3rd collimator 6'
- Scattering angle -170° < 2 θ < +10°

- Asymmetric monochromator
- Vertical focusing monochromator

Magnetic materials, superconductor, solid state chemistry



Small-Angle Neutron Scattering Spoctrometer (SMARTer)

Status : Running

Mode :

- Preset time measurement
- Neutron wavelength \sim 3 6 Å (10 20%) Maximum neutron flux 7.4 x 10⁶ cm⁻² s⁻¹
- Effective Q range 0.005 0.6 Å⁻¹
- 2D-PSD (1.3 18 m & 0.1 m)
- GRAPS, Igor NIST, SASfit, ATSAS.

- Preset count system (hardware & software absolute scale)
- Automatic sample exchanger & refrigerated heating circulator
- Simultaneous mechanical movement
- Focusing lenses (F-SANS) under CRP IAEA

- Fuel cell & hydrogen storage materials (CRP IAEA)
- Protein & biological materials (TWAS)
- Colloids, polymers, ceramics, magnetic materials, micellar solutions,








	Echidna	BATAN'S HRPD
Composition x Space Group	La _{9.58} Si ₆ O _{26.38} <i>P</i> 6 ₃ / <i>m</i>	La _{9.56} Si _{5.5} B _{0.5} O ₂ P6 ₃ /m
a (Å)	9.7157(1)	9.6781(5)
c (Å)	7.1831(1)	7.1940(4)
V (Å ³)	587.20(1)	583.55(6)
GOF	2.44	1.12
R_{exp} (%)	3.24	16.42
$R_{wp}(\%)$	7.91	18.32
$R_{p}(\%)$	6.08	14.03
$R_{b}(\%)$	3.04	3.62







Conclusions	
and the second s	What we have
1	1. A 30 MW Research Reactor operates at (only) 15 MW
HANARO KAERI CARR PARC, JRR3	 Seven neutron beam instruments (with very different condition) – 5 running well.
	 Young and eager personnel needed to be exposed to any established Neutron Scattering instruments and facilities
	What we offer
	1. 170 days yearly of beam time
REG CAS BATAN	2. Open for regional users - based on the scientific interest (research collaboration)
OPAL ANSTO	 To train the postgraduate students, young scientists from the region (educational prog.)
	 Preliminary studies on neutron scattering experiment using; RSM, SMARTer, HRPD, FCD/TD, and NRF.











	China Sp	散裂 allation Neutra	中子源 on Source
Design Parameters			
	Parameters	Phase I	Phase II
	Beam power on target (kW)	100	200
User Lab 30T CRANE	Proton energy on target (GeV)	1	.6
No.1 Instrument Hall	Average beam current (µA)	62.5	125
Walkway	Pulse repetition rate (Hz)	2	5
	Service Area Target	1; Tun	igsten
Target Station Hall	Busement Moderators	3; LH2(C) H2C	, LH2(DP), D(D)
Flatform	Autory Service Med Reflector	B	le
and a start of the	Beam ports	1	8
matower a	Neutron instruments	3	18
	Dose control in hall (µSv/h)	2	.5
Ges Room No 2 Instrumient	Operation (hrs/yr)	50	00
Helium Compressor Room			P425 4





	散裂中子源 China Spallation Neutron Source
S	chedule
Prototyping R&D	January 2006 - July 2010 (4.5 years)
Construction start:	September 2010
Civil construction:	September 2010 – September 2013 (3 years)
Component fabrication:	September 2010 – September 2014 (4 years)
Installation & tests:	May 2013 – May 2015 (2 years)
Integrated system commissioning:	Sept. 2014 – March 2015 (1.5 years)
1st beam on target:	March 2015
Project complete/operation start:	March 2016 (6.5 years from construction start
	Page 7





	散裂中子連 China Spallation Neutron Source
Members of Internation	al Advisory Committee
CSNS International Accelerator Technology Advisory Committee (ATAC) D.Findlay/RAL (chair) I.Gardner/RAL W.T.Weng/BNL John D.Galambos/ORNL R.Garoby/CERN T.Hardek/ORNL Stuart Henderson/ORNL S.Holmes/Fermilab David Gurd /ORNL H.Kobayashi/J-PARC Yoshishige Yamazaki/J-PARC Takeshi Toyama/J-PARC Mike Seidel/PSI	CSNS International Neutron Technology Advisory Committee (NTAC) I.Anderson/ORNL (chair) M.Arai/J-PARC Takashi Kamiyama/KEK Stephen Bennington/RAL C.K.Loong/Argonne Robert Robinson/ANSTO Guenter Bauer/Juelich W.Wagner/PSI Y.Ikeda/J-PARC Tom McManamy/ORNL
	Page 10





Moderator and Reflector CHM hydrogen volume Φ150x100mm 20K Steel reflector Beryllium reflector Hydrogen vessel 9mm except 5mm for View surface VxH 100x102.2 mm bydrogen vessel 100x102.2 mm bydrogen vessel 7mm view surface VxH 100x102.2 mm bydrogen vessel 7mm thickness 7mm view surface VxH 100x102.2 mm bydrogen vessel 7mm thickness 5mm decoupler Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm thickness 4mm thickness 4mm thickness 4mm thickness 4mm thydrogen Cd/B4C 0.5-2mm	CINS COMMAND		China Sp:	酸裂中子源 Illation Westron Source
Steel reflector Beryllium reflector Hydrogen vessel 9mm except 5mm foview surface water premoderator 20mm hickness view surface VxH 100x102.2 mm DPHM bydrogen vessel 7mm thickness 7mm 5mm offset from center Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm Ww water container 4mm thickness 4mm decoupler Cd/B4C 0.5-2mm Reflector Be reflector 4mm thickness 4mm 100x100x1000mm thickness 4mm 4mm decoupler Cd/B4C 0.5-2mm 4mm thickness 4mm 4mm thickness 4mm 4mm thickness 4mm 4mm	Moderator and Reflector	CHM	hydrogen volume	Φ150x100mm 20K
Steel reflector Beryllium reflector water premoderator 20mm View surface VxH 100x102.2 mm DPHM bydrogen volume 120x120x50 mm 208 bydrogen vessel 7mm thickness 7mm OPHM poison position offset from center poison position 5mm offset from center Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm Wwater container 4mm thickness 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DOWM Water container thickness 4mm decoupler Cd/B4C 0.5-2mm DOWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DOUX1000x1000x1000mm 500x1000x1000mm thickness 4mm thickness 4mm thickness 1000x1000x1000mm thickness 1000x1000x1000mm thickness 10000x1000x1000mm <td></td> <td></td> <td>Hydrogen vessel thickness</td> <td>9mm except 5mm for view surface</td>			Hydrogen vessel thickness	9mm except 5mm for view surface
View surface VxH 100x102.2 mm bydrogen volume 120x120x50 mm 20k hydrogen vessel 7mm thickness 7mm view surface VxH 100x102.2 mm poison position 5mm offset from center 5mm poisoner Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm DWM water volume 110x110x50 mm 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DOWN water container thickness 4mm decoupler Cd/B4C 0.5-2mm DOWN DOWN DOWN000x1000x1000mm thickness 1000x1000x1000x1000mm thickness 1000x1000x1000x1000mm thickness 020/H2O, 10%	Steel reflector Beryllium reflector		water premoderator thickness	20mm
DPHM bydrogen volume 120x120x50 mm 20k hydrogen vessel 7mm thickness 7mm view surface VxH 100x102.2 mm poison position 5mm offset from center 5mm poisoner Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm DWM water volume 110x110x50 mm 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm thickness 4mm thickness 4mm thickness 4mm thickness 4000x1000x1000mm DOWM Fe reflector 1000x1000x1000mm			view surface VxH	100x102.2 mm
bydrogen vessel 7mm DPHM hickness 7mm poison position 5mm offset from center 5mm poisoner Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm DWM water volume 110x110x50 mm water container thickness 4mm decoupler Cd/B4C 0.5-2mm DWM water container thickness 4mm decoupler Cd/B4C 0.5-2mm DWM Fe reflector 4000x1000x1000mm Fe reflector D000x1000x1000mm D2O/H2O, 10%		DPHM	hydrogen volume	120x120x50 mm 20K
DPHM view surface VxH 100x102.2 mm poison position 5mm offset from center 5mm poisoner Cd/Gd 0.5mm decoupler Cd/B4C 0.5-2mm DWM water volume 110x110x50 mm water container 4mm decoupler Cd/B4C 0.5-2mm DWM water container 4mm thickness decoupler Cd/B4C 0.5-2mm Reflector Be reflector 4700x800mm Fe reflector 1000x1000x1000mm D2O/H2O, 10%	DWM	DWM hydrogen vessel 7mm		
DPHM CHM CHM CHM CHM CHM CHM CHM C			view surface VxH	100x102.2 mm
CHM Poisoner Cd/Gd 0.5mm CHM	DPHM-	-	poison position offset from center	5mm
CHM CHM			poisoner	Cd/Gd 0.5mm
CHM water volume 110x110x50 mm water container thickness decoupler Cd/ B4C 0.5-2mm Reflector Be reflector Φ700x800mm Fe reflector 1000x1000x1000mm coolant D2O/H2O, 10%		1	decoupler	Cd/ B4C 0.5-2mm
CHM CHM		DWM	water volume	110x110x50 mm
decoupler Cd/ B4C 0.5-2mm Reflector Be reflector Φ700x800mm Fe reflector 1000x1000mm coolant D2O/H2O. 10%	CHM		water container thickness	4mm
Reflector Be reflector Φ700x800mm Fe reflector 1000x1000x1000mm coolant D2O/H2O. 10%			decoupler	Cd/ B4C 0.5-2mm
Fe reflector 1000x1000x1000mm coolant D2O/H2O, 10%		Reflector	Be reflector	Φ700x800mm
coolant D2O/H2O, 10%			Fe reflector	1000x1000x1000mm
volume fraction		-	coolant	D2O/H2O. 10% volume fraction





SNS - connexe academent of security	NX China Spallation New	以中于1 Itron Source
Neutorn instruments: REFL of	design	
Moderator	Coupled liquid H2 (20 K)	
Bandwidth (A).)	6 Å	
Guide	Bender+Sraight+Taper	
	$40 \times 60 \rightarrow 20 \times 30 \text{ mm}^2$	
Source to sample distance L1	19.5 m	
Sample to detector distance L2	2 m	
Sample table	6-axis movements	
Polarizer/analyzer	Supermirror type	
Detector	2D position-sensitive detector	
	Position resolution: 2 mm	
Moderator Bender Straig Target shalafing Prenchalating	rocused guide	
0 3 6 10	17 185 215	

Neutron instruments	s: SANS	_	-
Moderator	Coupled hydrogen (20K)	1	(3)
Moderator to sample distance	14 m	1ª	X
Sample to detector distance	5 m		A.
Detector		a	1.1
Effective area	50×50 cm ²	10	1900 C
Resolution	1 cm (FWHM)	-	
Distance to sample	1~5 m		
Working wavelength range	0.4-8 A		
q range	0.004-3.4 Å ⁻¹	191	A
	y bedrate		















