



Report of the Director of RCARO - RCANRM(37)



RCARO Performance in 2014 and Work Plan for 2015

**The 37th NRM
18 March 2015, Islamabad, Pakistan**

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Director
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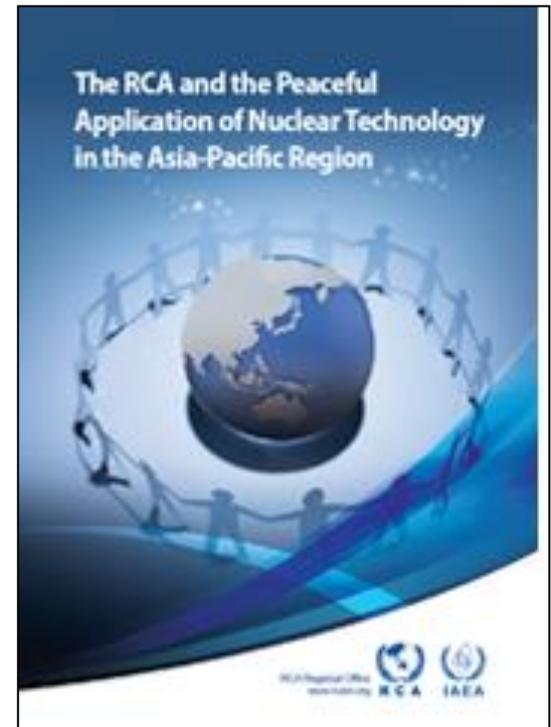
2014 Work Performance



1. Increasing the Awareness of RCA(1)

□ Publication of a RCA brochure for General Public

- In consultation with the NRs and experts, RCARO published a brochure for general public.
- Contains general information on RCA, RCA projects and achievements
- Copies were distributed to GPs and handed out for promotional uses on appropriate occasions.



1. Increasing the Awareness of RCA (2)

□ Updating RCA Promotional Video

- RCA promotional video has been used at int'l conferences and GPs effectively as a RCA promotional tool.
- RCARO updated the RCA promotional video reflecting changes in GPs, NRs and RCA projects
- A short version containing core information on the RCA is also prepared.
- Updated RCA promotional video will be presented at the 37th NRM.



1. Increasing the Awareness of RCA (2)

□ Enhanced RCA information service through the RCA Website

- Since its renewal in 2011, RCA Website has continued updating the information on RCA and its activities such as policy meetings(NRM, GCM), projects, data and news from the GPs.
- After more than 3 years of operation by RCARO, it would be timely to review and identify measures to improve the RCA information service by maximizing its utilization and benefit for users including the RCA GPs, IAEA and related stakeholders.
- Following up the initial discussion at the 18th SAC/36th NRM, RCARO has drafted a working paper on “Enhancement of the RCA web information service”.
 - The working paper will be presented to the 37th NRM for NRs’ consideration.



1. Increasing the Awareness of RCA (3)

□ Exhibition to target audiences

- RCARO participated in the following conferences following the decision from the 18th SAC/36th NRM.
 - 2nd International Conference on Radiation and Dosimetry in Various Fields of Research, 27-30 May 2014, Nis, Serbia
 - 8th International Conference on Isotopes (ICI), 24-28 August, Chicago, USA
- Provided AUL NR with promotional materials for his promotional activities for the RCA at the South Pacific Environmental Radioactivity Conference held on 1-4 September in Darwin, Australia
- For future participations, the 18th SAC recommended RCARO to conduct a survey of NRs on possible conferences to attend and present its results at the SAC before the GCM in the year before the conferences will be held.



1. Increasing the Awareness of RCA (4)

□ Exhibition to target audiences (cont'd)

- According to the the 18th SAC's recommendation, RCARO conducted a survey of NRs and IAEA and received information of 13 conferences to be held in 2015.
- Amongst them, the 43rd GCM approved RCARO's participation to the below conferences in 2015:
 - 15th International Congress of Radiation Research, 25-29 May 2015, Kyoto, Japan
 - Applied Isotope Geochemistry Conference, 21- 25 September 2015, Orléans, France
 - International NDT Conference and Exhibition, 23-25 November 2015, Kuala Lumpur, Malaysia



1. Increasing the Awareness of RCA (5)

□ Support the RCA experts' promotion activities

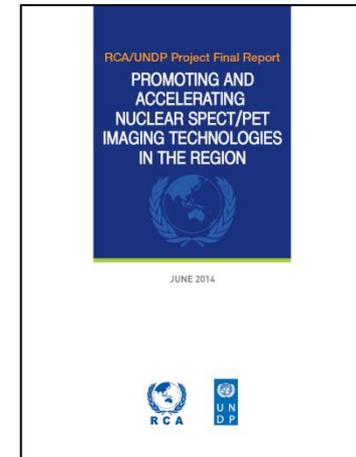
- Under the programme cycle from September 2013 to August 14, RCARO successfully supported the two experts from AUL and PHI for their participations and RCA promotional activities.
- With regard to the current program cycle from September 2014 to August 2015, RCARO selected 4 RCA experts (CPR, BGD, INS, and PHI) out of 13 applicants from 6 GPs.
- RCARO successfully supported selectees from PHI and BGD in 2014 and the experts from CPR and INS will be supported in the first half of 2015.



2. Implementation of RCA/UNDP project on Nuclear Imaging Technology

□ Publication of the final report

- RCARO published a final report in cooperation with the LCC and participating GPs
- The report was distributed to the GPs, IAEA, UNDP, and etc.



□ Monitoring and submission of progress reports

- Upon the 17th SAC's recommendation to monitor the impact and sustainability after the project's completion, RCARO received reports of NPCs and submitted a summary to the 43rd GCM.
- According to the received reports, 45 national activities were held for 6,375 local participants (female-3,508, male-2,442, not specified-425) and more than 92,836 patients (male-57,302, female- 25,536, children- 2887, not specified-7,111) were diagnosed/treated by applying the knowledge and skills gained from the project.



3. Implementation of RCA/UNDP project on Electron Beam(EB) Application (1)

□ Conducting Regional Training Courses

- Two regional training courses (RTCs) were held in Advanced Radiation Technology Institute (ARTI), Korea:
 - RTC on basic and advanced knowledge and hands-on experiment on EB application for advanced material for two weeks on 14-25 April 2014
 - RTC on basic and advanced knowledge and hands-on experiment on EB application for food products for one week on 16-20 June 2014
- 33 participants attended the RTCs
- Trained with information on basic concepts and advanced knowledge about EB application by conducting experiments



3. Implementation of RCA/UNDP project on Electron Beam(EB) Application (2)

❑ Holding an annual review meeting

- Held on 19-20 November in Yangon, Myanmar
- 17 participants including LCC, NPCs, officers of MYA and RCARO participated in the meeting
- Reviewed the achievements/outcomes of the project in 2014 and set up a detailed work plan for 2015

❑ Achievements/Outputs

- Conducted national activities such as R&D activities, training courses, workshops to disseminate the gained knowledge and skills to local institutes and industries, involving 1,937 participants



4. Assisting the GPs in addressing regional and national needs

- ❑ **RCARO/KAIST Nuclear Engineering Master's Degree Course**
 - Supported two students from INS and BGD
- ❑ **RCARO/ARCCNM training course**
 - Supported 32 trainees for the training course held on 4-8 Nov. in Osaka, Japan

*ARCCNM: The Asian Regional Cooperative Council for Nuclear Medicine
- ❑ **RCARO/KAERI regional training workshop**
 - Hosted a regional training workshop for 14 participants from 12 GPs on radiation application technology on 13-24 Oct. in cooperation with the Korea Atomic Energy Research Institute (KAERI)



5. Increased interaction between GPs and RCARO(1)

- Invited 3 temporary staff from MAL, BGD and THA
- Holding a workshop on enhancing RCARO interactions with the GPs
 - As decided by the 36th NRM, a working group was formed to discuss the future role of the RCARO
 - WG members : AUL(Chair), CPR, JPN, NZE, PAK, PHI, ROK and Dir-RCARO
 - Replacing a RCARO's annual workshop, the above Working Group Meeting was held on 10-12 June in Jeju, Korea;
 - Session I: Perspective of the Government Parties on the RCARO
 - Session II: The RCARO's Future Role based on the Strategic Paper by the RCARO
 - Session III: Tasks and Challenges for Implementation of Plans for the RCARO's Future Role
 - The results of the meeting was reported to the 43rd GCM and it was decided to have a succeeding WG meeting to continue discussion.



5. Other activities (1)

❑ Submission of a strategic paper on potential increasing role of the RCARO

- As decided at the 42nd GCM, RCARO submitted a strategic paper on potential increasing role of the RCARO to the 18th SAC and 36th NRM reflecting views of GPs shown in the survey.
- The 36th NRM noted the proposal for a pilot project in the strategic paper to be fully funded by an extra-budgetary contribution from ROK in which the RCARO would take the role of LCC.
- According to the 36th NRM's decision, RCARO prepared two project concepts for a pilot project and submitted to the RCA Chair through the NR of ROK.
- Upon positive feedback by the IAEA and approval by the 43rd GCM, the concept proposal on expert networking in nuclear medicine was forwarded to a design stage and will be further developed according to the timeline for the project cycle 16-17.



5. Other activities (2)

- ❑ **Participated in the RCA policy meetings and project design meeting**
- ❑ **Participation in the RCA Working Groups Meeting**
 - RCARO DIR participated in the WG-2 Meeting on updating the RCA GOR on 19-21 February.
- ❑ **Participation in the 15th FNCA Coordinators Meeting**
 - Held on 11-12 March in Tokyo, Japan
 - Delivered a presentation on cooperative activities between RCA and FNCA on behalf of the RCA
- ❑ **RCARO contributed Extra Budget of USD 60,000**
 - To support the pilot project in which RCARO will take the role of LCC



2015 Work Plan



1. Increasing the Awareness of RCA(1)

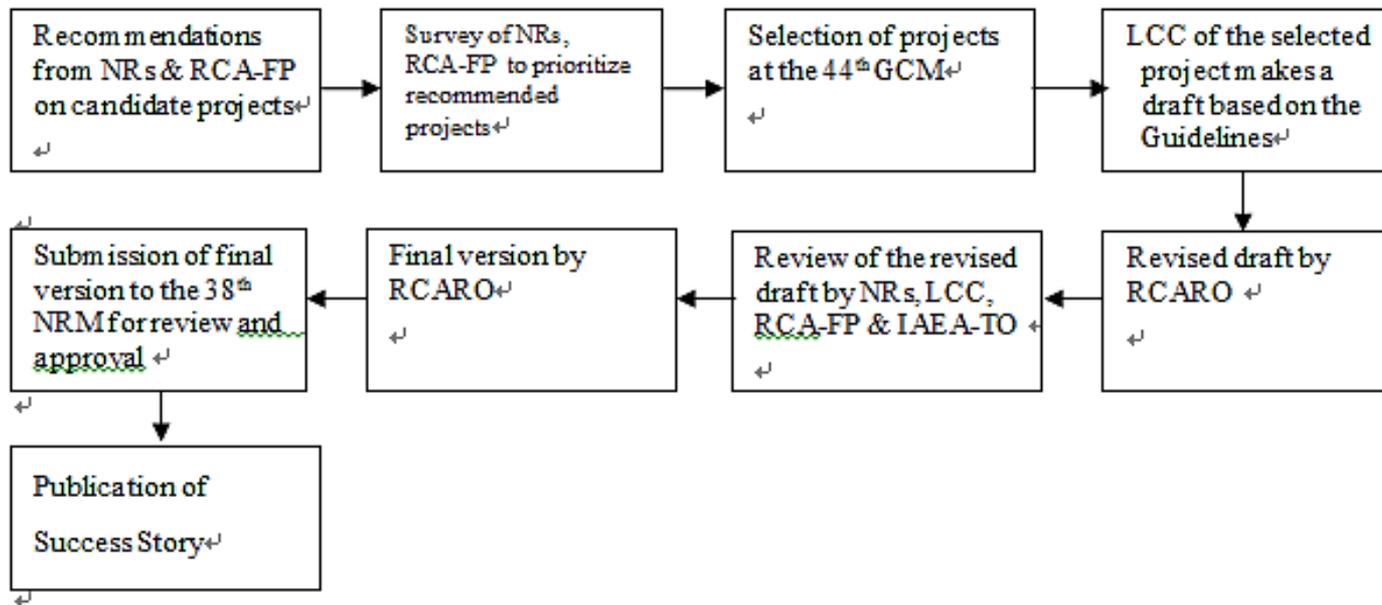
□ Publication of the 6th batch of RCA success stories

- Since 2007, RCARO had published 5 batches of RCA Success stories for increasing the visibility and viability of RCA.
(total 19: Agriculture 3, Environment 7, Health 3, Industry 3, others 3)
- According to the mechanism and procedure approved by the 40th GCM in 2011, RCARO will publish the 6th batch of RCA Success Stories.
- Amongst RCA projects successfully completed in 2013/14, RCARO will conduct a survey of NRs to select appropriate projects with potential of promoting benefits of nuclear science and technology.



1. Increasing the Awareness of RCA(2)

□ Publication of the 6th batch of RCA success stories (cont'd)



<Procedures for the 6th batch of RCA Success Stories>



1. Increasing the Awareness of RCA (3)

□ Updating RCA Promotional Video

- RCARO prepared a draft of updated RCA promotional video for consideration of the 37th NRM
- RCARO will finalize and upload the video on the RCA website after reflecting comments of the RCA GPs
- Also, a short version containing core information of the RCA will also be finalized accordingly

<Demonstration of the updated RCA promotional video(draft)>



RCARO's WP on Enhancement of the RCA web information service

□ Enhanced RCA information service through the RCA Website

○ Background

- Since its renewal in 2011, RCA Website has continued updating the information on RCA and its activities such as policy meetings(NRM, GCM), projects, data and news from the GPs.
- After more than 3 years of operation by RCARO, it would be timely to review and identify measures to improve the RCA information service by maximizing its utilization and benefit for users including the RCA GPs, IAEA and related stakeholders.
- Following up the initial discussion at the 18th SAC/36th NRM, RCARO has drafted a working paper on “Enhancement of the RCA web information service”.

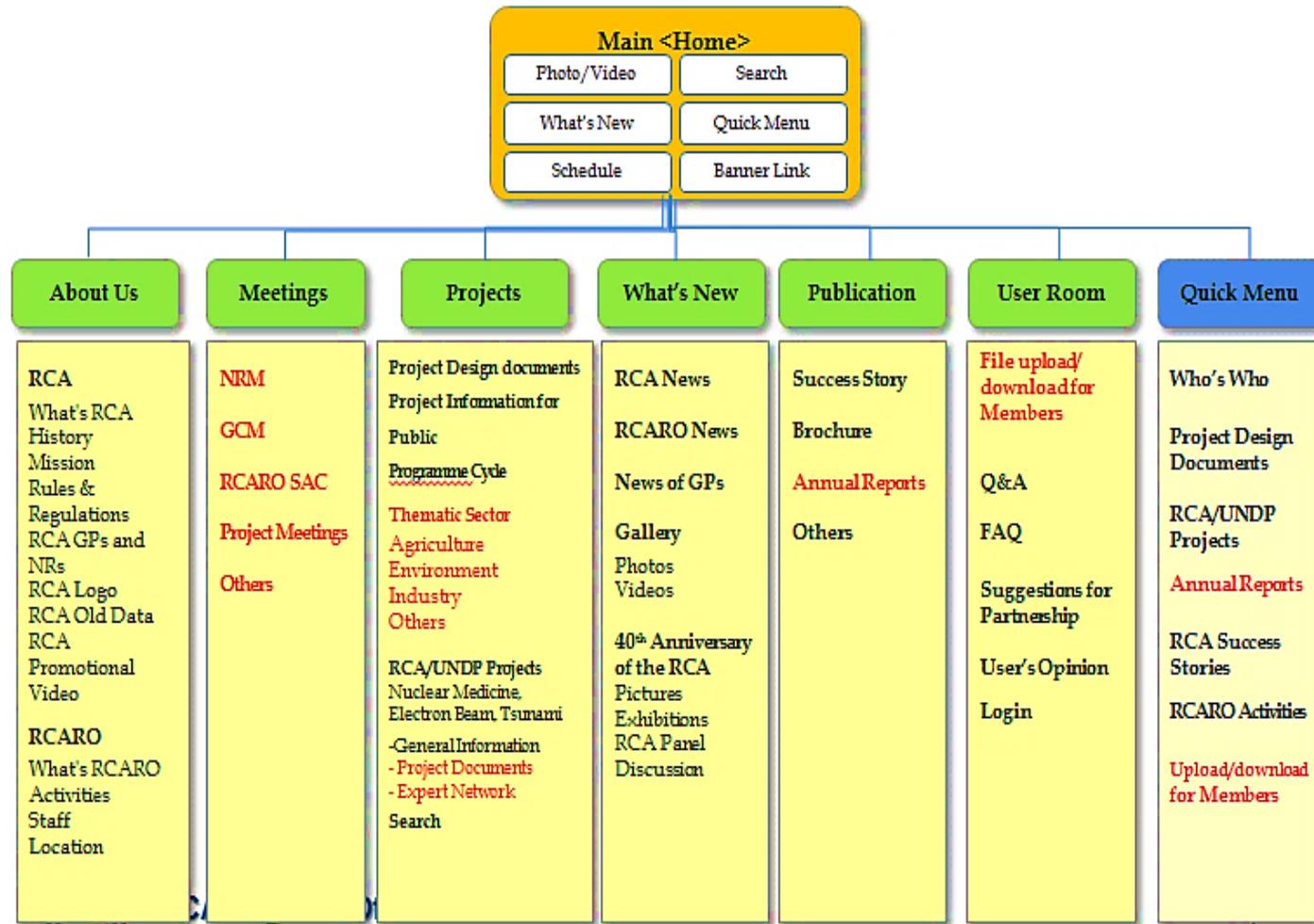


RCARO's WP on Enhancement of the RCA web information service

- **Current status of the RCA web service**
 - RCA website provides all the information related with RCA including RCA rules and regulations, RCA policy meetings, RCA projects, news, publications. Authorized users can upload or download data in the web.
 - RCARO, as the hosting organization, continues to update information on RCA activities in cooperation with IAEA and GPs.
 - Based on the guideline defined at the 27th NRM, the website provides RCA information to its members and non-members with different level of contents and accessibility
 - Members: National RCA Representatives, IAEA and RCARO
 - Non-members: local experts in GPs (incl. LCCs, NPCs), public, etc.
 - Each NR is provided with one ID and PW and it is recommended for NRs to share their IDs and PWs within GPs when necessary.



RCARO's WP on Enhancement of the RCA web information service



Current Sitemap of the RCA Website
(members only data in red)



RCARO's WP on Enhancement of the RCA web information service

- **Issues related with the operation of the RCA Website**
 - Inconvenient process for sharing ID/PW between NRs and relevant stakeholders
 - Sharing of IDs and PWs has not been very convenient and RCA project participants such as LCCs, NPCs have limited access to the RCA information regardless of their relevance and interests to the RCA.
 - Providing more useful information to potential users of the RCA projects
 - Potential stakeholders such as potential partners, experts or policy makers who are not involved in the RCA face difficulties in acquiring in-depth information of the RCA
 - Limited project information is provided to the public and potential stakeholders
 - Level and quality of the information provided by the IAEA and GPs
 - Information on RCA project data and News of GPs are in lack of level and quality due to insufficient data provision of the IAEA and GPs.



RCARO's WP on Enhancement of the RCA web information service

- **Recommendations for the enhanced web information service**
 - **Improving level and quality of information**
 - **Opening some part of Annual Report to the public** : Annual Report is members only information but its comprehensive information on RCA projects can also be useful for potential users of the RCA. Thus, it is recommended to consider making a public edition of Annual Report for public.
 - **More systematic provision of information from the IAEA** : For continuous update of the RCA information, it is recommended to establish an effective, systematic and cooperative network between IAEA and RCARO.
 - **More information on the RCA activities from the GPs**: For continuous update of the GPs' information, it is recommended to establish an effective, systematic and cooperative network between GPs and RCARO.



RCARO's WP on Enhancement of the RCA web information service

- Recommendations for the enhanced web information service (cont'd)
 - **Designation of a RCA Web Administrator (RWA) in each GP for improved access system**
 - Following up a case of IAEA Nucleus website that grants accessibility of users to some of the protected parts through national administrators, it is recommended to designate a focal person, possibly named as “RCA Web Administrator (RWA)” in each GP.
 - Appointed by a NR, RWA will run access system by having the authority of managing all IDs and PWs in his/her GP. The RWA will review eligibility, create and delete accounts.
 - **Establishment of “the Guideline for Enhancement of the RCA Web Service”**
 - In cooperation with NRs and experts, RCARO may establish guidelines for enhancement of the RCA web service.



RCARO's WP on Enhancement of the RCA web information service

- **Recommendations for the enhanced web information service (cont'd)**
 - The guideline may include the followings;
 - Process to designate RCA Web Administrator (RWA)
 - Guideline for RWAs to manage the access system in their countries
 - Guideline for RCARO web manager to manage the whole system
 - Guideline for IAEA (FP) and GPs (NRs) for establishing systematic and cooperative network with RCARO web manager to provide information on the RCA projects in due process
- **Formulation of Expert Group to support follow-up actions**
 - An expert group may be formed to support follow up actions including the establishment of the guidelines.



RCARO's WP on Enhancement of the RCA web information service

- Follow up Actions to be considered;

Action	Schedule		Responsibility
Discussion on RCARO's Suggestion at the 20th SAC/ 37th NRM	16-19	March	NRs
Establishment of the Guideline for Enhancement of the RCA Web Service"	April – June		DIR RCARO (Expert Group)
Review by the SAC and IAEA	July-August		IAEA SAC
Progress report at the 44th GCM and discussion on further actions to be taken	September		DIR RCARO NRs



1. Increasing the Awareness of RCA(4)

- **Presentation and exhibition of RCA/RCARO activities to targeted audiences**
 - According to the 43rd GCM, RCARO plans to participate in the following conferences in 2015:
 - 15th International Congress of Radiation Research, 25-29 May 2015, Kyoto, Japan
 - Applied Isotope Geochemistry Conference, 21- 25 September 2015, Orléans, France
 - International NDT Conference and Exhibition, 23-25 November 2015, Kuala Lumpur, Malaysia
 - To make the best use of such occasions, RCARO will engage RCA experts including the LCCs and NPCs of relevant thematic areas for their technical contribution.



1. Increasing the Awareness of RCA(5)

- **Support the RCA experts for promotion of the RCA**
 - For the current programme cycle (September 2014 - August 2015) RCARO will support two experts from CPR and INS in the second half of 2015.
 - With regard to the next cycle (September 2015 - August 2016) RCARO will invite the GPs for nominations of appropriate RCA experts and carry out the programme according to the guideline approved in 2013.

2. Implementation of Pilot Project

□ Finalizing of project documents for the RCA Programme Cycle 2016-2017

- As endorsed by the 43rd GCM, RCARO has been developing a pilot project entitled as “Improved patient care and enhanced member state capacity in nuclear medicine programs through expert networking in RCA region”.
- Reflecting views of the PAC, TO and PMO, RCARO will submit the finalized project document to the RCA Chair through the NR of ROK.
- RCARO will make further necessary arrangements for finalization of the project document.

3. Implementation of RCA/UNDP project on Nuclear Imaging Technology

□ Monitoring and submission of progress reports

- As recommended by the 17th SAC, RCARO will continue to monitor the impact and sustainability of the project in 2015 and the progress will be reported to the NRs.



4. Implementation of RCA/UNDP project on Electron Beam(EB) Applications

❑ **Conducting Regional Training Courses(RTCs)**

- One RTC will be held in ARTI, Korea to train the participants for the application of EB in the field of environmental remediation for two weeks on 11-22 May.

❑ **Holding a Final Review Meeting**

- Will be held on 28-29 Oct. 2015 in Siem Reap, Cambodia as decided at the 2014 annual review meeting

❑ **Submission of progress/financial reports**

- Reports will be submitted to the UNDP and UNOPS every six months.

❑ **Publication of a Final Report**

- Upon completion of the project, RCARO will prepare and publish a final report, which will be submitted to the UNDP and RCA NRs.



5. Enhancing and Exploring partnerships with regional/international organizations

□ Participation in the PEMSEA meeting

- RCARO is considering participating to the PEMSEA East Asian Seas (EAS) Congress to be held in Danang, Vietnam in November 2015 to seek possibility to build a partnership with the PEMSEA through project development and/or information sharing on relevant issues for feasible partnerships.

□ Participation in the 16th FNCA Coordinators meeting

- On behalf of RCA, RCARO participated in the 16th FNCA Coordinators Meeting held on 4-5 March in Tokyo, Japan.
- Director of RCARO presented the achievements of RCA and cooperative activities with the FNCA done in 2014.
 - Areas of common interests: Mutation breeding, radio oncology, radiation processing



6. Assisting the GPs in addressing regional and national needs

- ❑ **RCARO/KAIST Nuclear Engineering Master's Degree Course**
 - Will continue to support students from GPs.

- ❑ **RCARO/ARCCNM training course**
 - Will continue to support the training course.

- ❑ **RCARO/KAERI regional training workshop**
 - Will host a regional training workshop regarding radiation application technology in October or November in cooperation with KAERI
 - NRs are requested to recommend appropriate candidates for the workshop.



7. Increased Interaction between GPs and RCARO

❑ RCARO Fellowship Programme

- Will select three temporary staff from the GPs to work in the RCARO

❑ Holding a RCARO annual workshop

- RCARO used to host an annual workshop to discuss ways to increase interaction with the GPs and accommodate the needs of the GPs
- Subject to the discussion at the 37th NRM, the workshop could be replaced by a Working Group Meeting for the RCARO's future role.



8. RCARO's Future Role

□ Holding working group meeting(s) on RCARO's future role

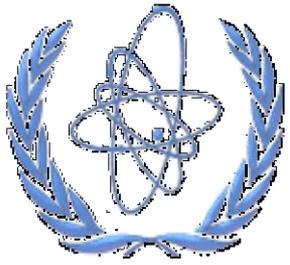
- According to the endorsement of the 43rd GCM, the 2nd working group meeting was held on 20-22 January 2015 in Jeju, Korea to progress the activities outlined in the report of the 1st WGM held in June 2014.
- The meeting mainly focused on establishing guidelines and mechanisms for implementation of Supplementary projects (SPs), Research Projects (RPs) and ad hoc Training Programmes (TPs).
- The Meeting report will be presented by the Chair of the WG to the 37th NRM.



9. Other activities

- ❑ **Participation in the RCA policy meetings and project design meeting**
- ❑ **Participation in an Expert Meeting on the RCA**
 - Upon request by the Chair of the WG, RCARO DIR participated in the meeting held on 16-20 February 2015 in Vienna, Austria to share views on the RCA Medium Term Strategy and Strategic Priorities for 2018-2023.
- ❑ **Extra-Budgetary(EB) contribution to the IAEA**
 - Will be made to support RCA projects in need of financial support, subject to budget availability of the RCARO





Thank You