



Asia Pacific Association of Agricultural Research Institutions

An Update on Recent APAARI Activities (2003-2004)

Introduction

The Asia-Pacific Association of Agricultural Research institutions (APAARI), established in 1991 as an apolitical, non-profit and neutral forum of National Agricultural Research Systems (NARS) in the region, strengthens the research capabilities of NARS and promotes information sharing among them in order to alleviate poverty, increase agricultural productivity and resource use, protect/conservate the environment and improve sustainability. Besides the regional NARS, several International Agricultural Research Centers (IARCs) and CGIAR Institutes are its associate members (Annexure I).

The APAARI programs are aimed to enhance exchange of scientific and technical know-how and information in agricultural research for development; assist in strengthening research capability of member institutions and promote cross linkages among national, regional and international research organizations. APAARI, in consultation with its stakeholders, has developed a long-term perspective plan and strategies to address relevant issues, including regional collaboration, networking of research programs; HRD; policy advocacy; resource generation and publication enhancement.

APAARI Mission

“To promote the development of national agricultural research systems in the Asia-Pacific region through facilitation of intra-regional, inter-institutional and international cooperation”

Functions

- Convene General Assembly to develop Policies, Priorities and Programmes; Organize working groups, meetings, seminars, expert consultations on regional issues;
- Collect, collate and disseminate research information; maintain links with agencies/institutions/organizations engaged in similar activities within and outside the region;
- Promote collaborative research among member institutions; Partnership with CGIAR/IARCs, ARIs, GFAR, Regional, Sub-Regional Fora and the Private Sector

A brief report of APAARI activities undertaken during 2003-2004 is as follows:

1. Expert Consultations/Meetings/Workshops/Seminars

▪ **Research Gap Analysis Workshop**

From 7-8 October 2004, APAARI, in collaboration with ICAR and ICRISAT, organized the Research Gap Analysis Workshop for South Asia at ICRISAT. The workshop was a follow-up of earlier APAARI organized sub-regional and regional research priority setting and need assessment exercises. The present workshop identified the existing research gaps and necessary partnerships to address these research gaps. The workshop also formulated a work plan to carry out the recommended activities.

▪ **The 2nd Meeting of Inter-regional Cotton Network for Central Asia and North Africa (INCANA)**

The Second Meeting of INCANA was held in Tashkent, Uzbekistan from 6-8 September, 2004. The meeting was organized by PFU and ICARDA-CAC Regional Office under the umbrella of Central Asian and Caucasian Association of Agricultural Research Institutes (CACAARI). The meeting was co-sponsored by the Global Forum for Agricultural Research (GFAR), Association of Agricultural Research Institutes for Near East and North Africa (AARINENA), Asia-Pacific Association of Agricultural Research Institutes (APAARI) and CACAARI. In all, about 35 scientists participated in the meeting, including representatives from Iran, India, Egypt, Syria, Jordan, Greece, Kazakhstan, Tajikistan, Uzbekistan and Azerbaijan. The meeting was inaugurated by H.E. Mr. Ikramkhon Najmitdinov, Minister of Agriculture and Water Management of Uzbekistan.

▪ **Third Steering Committee Meeting of APARIS**

The third steering committee meeting of APARIS was held on 8th August 2004. The main agenda for discussions was the APARIS Business Plan for 2004-2007 under 3 broad themes: **Advocacy** for enabling, enhancing and enlarging agriculture related information systems at national, sub-regional and regional levels in the Asia-Pacific region; **Capacity development** in information and communications management and use of appropriate information and communications technologies for national agricultural information systems; and **Integration** of information systems within NARS, in the Asia-Pacific Region and with other regional and global agricultural information systems such as the GFAR Web ring.

▪ **Training of 9 Information Officers from 7 LDCs**

APAARI, in collaboration with GFAR, AIT, FAO-RAP, SDLEARN, UN-ESCAP and AgriWatch, organized a training workshop on Capacity Building for Developing National Agricultural Information Systems (NAIS) of Cambodia, Laos, Myanmar, Bhutan, East Timor, Mongolia and Vietnam during 3-12 August 2004 at the AIT Conference Center, AIT, Pathumthani, Thailand. These NARS, being either non-member or new member, could not benefit from APAARI's earlier three ICT/ICM related Expert Consultations. The training Workshop had two specific objectives: (1) Train appropriate officers in principles of ICM and in identifying essential components of their respective NAIS and (2) Assist these officers in development of basic NARS web sites to disseminate NAIS keeping in view different user groups. Building upon the success of this training program, APAARI plans to have similar trainings for APAARI NINPs from developing countries under the framework of its APARIS Business Plan 2004-2007.

Earlier, from 1-4 December 2003, APAARI organized four meetings at the Asian Institute of Technology, Thailand, which were attended by about 70 participants representing various APAARI stakeholders and special invitees, including the representatives of AARINENA and FARA. These events included:

▪ **Expert Consultation on ICT/ICM in ARD**

With partial financial support from GFAR, this expert consultation was organized from 1-3 December 2003 to strengthen the regional agricultural information system (APARIS) and national information nodal points, and further identify specific programs to enhance the role of ICT/ICM in ARD in the Asia-Pacific region. The final recommendations of this expert consultation were as follows:

- i) Agriculture is becoming more knowledge-intensive as it becomes more market-oriented in a globalized world. The use of ICT is vital for accelerated growth in this agriculture.
- ii) In the Asia-Pacific region, there are several hot-spots of rural poverty (dominated by smallholders), information and knowledge sharing using both conventional and new ICT has great potential for improving agricultural productivity and alleviating poverty.
- iii) APARIS, as a RAIS and regional information intermediary, and APAARI as a regional organization, have critical roles in improving the efficiency and effectiveness of information and knowledge flows related to agriculture in the Asia-Pacific region.
- iv) Further enhance relations between NARS represented by NINPs and APARIS for greater collaboration in information exchange.
- v) Build capacities among NINPs in ICT/ICM.
- vi) Improve APAARI's advocacy role in the area of ICM for ARD.
- vii) Identify ICT indicators and status of the NARS and member institutes.

- **Special Session on Status of Regional Research Networks**

In a parallel session on 2nd December 2003, APAARI and research network coordinators of CORRA, CLAN, GoFAR, UTFANET, PGR Networks, TAMNET, INCANA, Biosaline Networks and ITFNet discussed the status of various research networks and ways to further strengthen them. There was very active and lively discussion relating to the role of Networks. Member NARS felt that these Networks were serving very useful purpose and must be further strengthened as well as supported, especially through active involvement of concerned NARS, including APAARI. It was suggested that for better funding support to these Networks, a regional level donor meeting could possibly be organized in active collaboration with FAO, GFAR and IARCs. APAARI could facilitate this process and provide need-based support, wherever necessary. It was also agreed that CG centers may be pursued to continue playing their important facilitator function for the on-going Networks and member NARS may also contribute towards better sustainability of these Networks, including the responsibility in future to run their secretariats. Also involvement of private sector may be sought in future. It was also suggested that the facilitating centers/institutes may be encouraged to have an internal review of the existing Networks for much needed gap analysis and restructuring, if needed. Also, the need to have some research Networks activities in the livestock sector, involving ILRI, and agro-forestry center, involving ICRAF was felt. The initiative to establish Inter-regional Network on Cotton (INCANA) was appreciated in particular. More such initiatives in future will strengthen NARS considerably.

- **Seventh APAARI Executive Committee Meeting**

The seventh APAARI Executive Committee meeting reviewed the APAARI activities during 2003 and membership status and audited accounts; finalized the 2004 work plan; and approved the establishment of APCoAB.

2. ICT/ICM Related Activities

- **APAARI Homepage**

The APAARI home page (www.apaari.org) has been re-designed and further enriched with new information and links. The site now provides useful information on agricultural R&D activities in the region such as seminars, symposia and conferences, performs gateway function and serves as a portal to regional research networks. The objective of this component of APARIS is to facilitate access to information resources on the internet, both through search engines and by facilitating access to web sites of institutions that work in ARD and to web sites that are related to specialized topics of ARD. This is only a portal service, and not a centralized database. Access to the web sites of the NARS institutions in the region is being facilitated. Some of the new features on the site include information on NARS database

and links to other regional and global institutions. The improved site has features for e-discussion among national information nodal points. Most of the APAARI publications are now available on the website for download.

▪ **APARIS Update**

Besides training of 9 national information officers from 7 LDCs and publication of an advocacy report to promote ICT/ICM in ARD, APARIS has taken up some new initiatives. All APAARI publications and reports have been put in electronic format on a user-friendly interactive CD (named *APAARI on CD*). *APAARI on CD* is being sent to all APAARI contacts and particularly those who may lack adequate Internet access. Two new functions, gateway and regional agricultural expert locator (RAEL), are currently being developed to make APARIS more useful to the agricultural researchers of the region. The gateway function will be able to perform keyword-based search on the ARD information resources available in the region and the RAEL function will maintain a database of agricultural experts. Through this function the interested agricultural experts will be able to log-on to APARIS and upload/update their information including a list of their publications.

FAO-RAP and APAARI representatives have jointly developed a work plan to promote ICT/ICM in ARD. The specific activities in the work plan include (a) demonstration of FAO's ICT tools to the national information nodal points of APAARI, (b) participation of APAARI NINPs in FAO organized training programs, (c) publication of the benchmark report on the status and progress of ICT/ICM in ARD in the Asia-Pacific region and (d) publication of a Success Story on ICT in Agriculture using case studies from selected Asia-Pacific countries.

3. Establishment of Asia-Pacific Consortium on Agricultural Biotechnology (APCoAB)

Introduction

The Expert Consultations & the Seventh Executive Committee meeting of APAARI in 2003 endorsed the need for establishing APCoAB as a neutral forum under APAARI.

APCoAB, established in 2003, under the umbrella of APAARI is aimed at “ensuring that benefits of agricultural biotechnology reaches the small & marginal farmers in the region”. APCoAB is in the process of evolving a long-term perspective plan and strategies through stakeholders partnerships; policy advocacy; bringing awareness about the issues and identifying areas where capacity building is required.

APCoAB Mission

“To harness the benefits of agricultural biotechnology for human and animal welfare through the application of latest scientific technologies while safeguarding the environment, for the advancement of society in the Asia Pacific region.”

Functions

- To serve as a neutral forum for the key partners engaged in research, development, commercialization and education/learning of agricultural biotechnology as well as environmental safety in the Asia-Pacific region.
- To facilitate and promote the process of greater public awareness and understanding relating to important issues, of IPRs, sui generis systems, biosafety, risk assessment, harmonization of regulatory procedures, and benefits sharing in order to address various concerns relating to adoption of agricultural biotechnology.

- To facilitate human resource development for meaningful application of agricultural biotechnologies to enhance sustainable agricultural productivity, as product quality, for the welfare of both farmers and consumers.

A brief report of APCoAB's activities undertaken during 2003-2004 is as follows:

Special Session on APCoAB

On 3rd December 2003, a special session was organized to review the status of establishment of the Asia Pacific consortium on Agricultural Biotechnology was convened under the chairmanship of Dr Matsuo Iwamoto. Discussions were held on the modalities for establishing of APCoAB & its future road map.

First Steering Committee Meeting of APCoAB

APAARI organized the first Steering Committee meeting on 8th April 2004 to finalize the road map and workplan for 2004-2006. To get started immediately, it was agreed that consultant may be hired for 6 months and during that period, attempts will be made to hire coordinator.

Establishment of Secretariat & appointment of Consultant

Secretariat for APCoAB has been established at ICRISAT's office at National Agriculture Science Complex in Delhi. Dr Vibha Dhawan, Director, (Bioresources & Biotechnology Division) TERI, has joined as a consultant since 1st May 2004.

APCoAB Website

APCoAB web site (www.apaari.org/APCoAB/) is being set up for information dissemination in the area of agricultural biotechnology and also to publicize APCoAB activities. The site provides several useful links as well as a database on various Asia-Pacific institutes and experts involved in agricultural biotechnology. Some introductory scientific information on agricultural biotechnology is also made available on the site.

Lecture organized

APCoAB along with TERI has jointly organized a seminar "Agricultural Biotechnology in the context of the third Millennium & Developing Nations" on 13th September, 2004. The seminar was delivered by well known scientist Dr Autar K Mattoo, Agri-biotech scientist and Research Leader, Beltsville Agricultural Research Centre, Maryland. It was attended by over 50 experts from TERI, TERI School of Advanced Studies, RIS, IARI etc.

Future APCoAB Publications

- Transgenic Maise in Philippines by Dr Reynaldo Eborra; Ms Ampil, Ms Merle Palacpac & Mr Carlo Custodio.
- Bt. Cotton in India by Dr S R Rao and Dr Raju Barwale

Initiators/Supporters

The main initiator of this programme is APAARI & FAO. The initial support came from Rockefeller Foundation, Monsanto, ACIAR & Mahyco. NARS of the countries in the region and other regional initiatives such as JIRCAS are being perused for joining APCoAB as members.

Participation in meetings/workshops

APCoAB Consultant, Dr Vibha Dhawan, participated in

- International Conference on Agricultural Biotechnology: Ushering the second green revolution – Organised by FICCI, MS Swaminathan Research Foundation & ISAAA during 10-12 August, 2004 in New Delhi.
- Regional workshop on Strengthening Partnerships for more effective Planning, Research & Development in Agriculture (South Asia)-Organized by ICRISAT & Asian Development Bank during 01-03 September, 2004, in New Delhi.

4. Publications and CD

APAARI had laid major emphasis on publications in the past for information sharing and dissemination. Details of important publications during the last one decade are provided in Annexure II. APAARI brought out the following publications during the period under report (2003-2004) and these were widely distributed particularly for the use of member NARS:

- **Newsletters**

Three issues of APAARI Newsletter (June-2004, December-2003 and June-2003) were published on time and circulated widely. Electronic versions of the newsletters have also been posted on APAARI web site and circulated through e-mails to APAARI contacts.

- **APAARI Brochure**

An attractive brochure giving information about APAARI and its activities and programs has been printed and distributed in various meetings and conferences.

- **Proceedings of Expert Consultations**

The Proceedings of the following Expert Consultations were published and distributed widely. These are also posted on APAARI homepage:

- Proceedings of the Expert Consultations on Strengthening Regional Agricultural Information System and Regional Research Networks and the Seventh Executive Committee Meeting of APAARI
- Proceedings of the Seventh General Assembly of APAARI and Expert Consultation on Strengthening of Research Partnerships through Networks and Consortia

- **Success Stories**

- A new Success Story on the "Lentil Improvement in Bangladesh," the twentieth in the series by APAARI, has recently been published and circulated to all APAARI members and some key ARD contacts for its wider dissemination. The success story is also being put on the APAARI web site and *APAARI on CD*.
- A Success Story on the "Control of Newcastle Disease in Village Chickens Using Thermotolerant Vaccines", the nineteenth in the series by APAARI, was published and circulated.
- Three new success stories on Sustaining Green Revolution, Biological Pest Control and Trout Farming in Nepal are presently being edited for their publication soon.

- **Regional Status Report on ICT/ICM in ARD for the Asia-Pacific Region**

A regional report is being published as an advocacy document to promote ICT/ICM in ARD and sensitize key decision makers of ICT policies in agriculture.

- **APAARI on CD**

All APAARI publications and reports have been put in electronic format on a user-friendly interactive CD (named *APAARI on CD*). *APAARI on CD* is being sent to all APAARI contacts and particularly those who may lack adequate Internet access.

5. Membership enhancement (New Members/Associate members/ Reciprocal Associate Members)

Several national, regional and international organizations expressed interest in becoming members, associate members of APAARI. These are:

- APSA, NACA, APAFRI, and AARINENA have joined as associate members and have also accepted APAARI as their associate member on reciprocal basis.
- NARS of China, Indonesia, Cambodia, Laos, Bhutan and Myanmar are also being pursued for joining APAARI as members. CIRAD and CABI have been approached for Associate Memberships.

6. Support to NARS and Networks

▪ Support to CLAN

In order to widen the network activities of CLAN, a network of ICRISAT, to also cover crops such as soybean, mungbean and lentil in partnership with AVRDC and ICARDA, APAARI ICRISAT have jointly decided to organize a steering committee meeting at Hyderabad in November, 2003. ICRISAT, ICARDA and AVRDC have, in principal, agreed to collaborate and would initiate specific activities under the network to support APAARI member NARS in Asia-Pacific region.

▪ TAMNET Revival

APAARI, in cooperation with FAO and APSA, has facilitated the revitalization of the network TAMNET, and has provided support for the distribution of hybrid maize trial seeds to the participating members in the network. TAMNET trials during 2003-2004 have been facilitated by APAARI.

▪ CORRA

CORRA network presented its activity report in the APAARI organized expert consultation on Strengthening of Research Partnerships through Networks and Consortia.

▪ GoFAR

GoFAR coordinator presented an activity report in the APAARI organized expert consultation on Strengthening of Research Partnerships through Networks and Consortia. APAARI extended complete funding support to delegates from Philippines, Vietnam, Bangladesh, and Nepal to participate in the third meeting of GoFAR at the World Fish Center, Penang, Malaysia from 3-5 November 2002.

▪ Inter-Regional Cotton Research Network (INCANA)

APAARI contributed a sum of USD5,000 to the Inter-Regional Cotton Research Network facilitated and coordinated by Cotton Research Institute, AREO, Iran. The network partners include: AARINENA, APAARI, CAC, GFAR, ICARDA and AREO.

7. Participation in meetings/workshops/conferences

- APAARI Executive Secretary participated in the GFAR Steering Committee meeting held in Nairobi, Kenya at the invitation of GFAR and made presentation on APAARI activities during the year 2002-2003.
- With support from IPGRI, APAARI representative Dr. Sahdev Singh participated in the meeting on Regional Strategy Development of the Global Crop Diversity Trust which was held right after the East Asia PGR meeting from October 15-19, 2004.
- With partial support from AAACU, APAARI representative Dr. Sahdev Singh participated in the 15th Biennial Convention of Asian Association of Agricultural Colleges and Universities (AAACU) to present a paper entitled "APAARI-AAACU Partnership: Potential Areas of Cooperation for e-Learning System" held from 26-30 September 2004 at Nagoya University, Japan.
- APAARI Executive Secretary participated in The Second Meeting of INCANA which was held in Tashkent, Uzbekistan from 6-8 September, 2004.
- APCoAB Consultant of APAARI, Dr. Vibha Dhawan, participated in International Conference on Agricultural Biotechnology: Ushering the second green revolution – Organised by FICCI, MS Swaminathan Research Foundation & ISAAA during 10-12 August, 2004 in New Delhi.
- APCoAB Consultant of APAARI, Dr. Vibha Dhawan, participated in Regional workshop on Strengthening Partnerships for more effective Planning, Research & Development in Agriculture (South Asia)-Organized by ICRISAT & Asian Development Bank during 01-03 September, 2004, in New Delhi.
- From 9-12 August 2004, APAARI participated in the Joint Conference of the Asian Federation for Information Technology in Agriculture (AFITA) and the World Congress on Computers in Agriculture (WCCA) extensively. It was represented by Dr. Sahdev Singh, APAARI Assistant Executive

Secretary; Dr. Ajit Maru, APAARI Resource Person and Dr. Ashraf Tanvir, APARIS Steering Committee Member. The 9 APAARI ICT/ICM training participants from 7 countries also attended the Conference. APAARI contributions to the Conference included a 90-minute technical workshop on Distributed Database Systems in Agricultural Research, a paper on APARIS and a paper on the status of ICT/ICM in ARD in the Asia-Pacific Region.

- With financial support from GFAR, APAARI representative Dr. Sahdev Singh attended the 4 ICT Expert Consultations organized by GFAR, AARINENA, CACAARI and FARA during 2003-2004 and presented a brief overview of APAARI experience in developing its information system, APARIS, in all 4 consultations.
- APAARI representative Dr. A.K. Bawa participated in the Second International Workshop on Lentil Improvement in South Asia held from 24-28 February 2003 at Kathmandu, Nepal and presented APAARI suggestions to include lentil in CLAN activities.
- Several APAARI stakeholders participated in the GFAR meeting in Dakar, Senegal in May 2003, supported by GFAR and facilitated by APAARI Secretariat.
- APAARI representatives Mr. P.K. Saha and Dr. Sahdev Singh attended FAO organized Regional Consultation on Capacity Building in Biosafety of GM Crops in Asia held in Bangkok, Thailand from 7-10 July 2003.
- APAARI representative Dr. Sahdev Singh, attended the CLAN Steering Committee Meeting held from 10-12 November 2003 at ICRISAT, Hyderabad, India. APAARI also supported NARS delegates from Iran, Pakistan, Sri Lanka and Thailand to attend this meeting.
- APAARI supported participation of NARS delegates from India, Bangladesh, Thailand and Philippines in the GM seed detection training-cum-workshop organized jointly by FAO and ISTA at Bangkok from 25 to 29 November 2003.

Conclusion

Overall, APAARI's diverse activities have provided further thrust on strengthening partnership, collaboration and networking in agricultural research and development in the Asia-Pacific region, addressing the emerging needs and expectations of NARS. APAARI looks forward to strengthen partnership with ARD organizations in pursuing common goals and objectives, especially in areas of genetic resource conservation and biotechnology, NRM related activities, ICT networking and commodity chain programs. APAARI also looks forward to strengthen inter-regional partnership with other Fora engaged in agricultural research and development through active support and involvement of GFAR. APAARI is keen to move forward on the "Gap Analysis" based on regional/sub-regional priority setting exercises undertaken earlier and ensure collaborative efforts to bridge those gaps. Areas of biotechnology and post-harvest technology are being addressed on priority through new programs, such as APCoAB, and expert consultation on post-harvest technologies, which APAARI plans to organize along with the next General Assembly to be held in December 2004.

APCoAB's secretariat has been established and activities are now gaining momentum. It has been recognized that farmers in the Asia Pacific region require technological empowerment. To achieve this, it is important to have strong focus on policy advocacy & public awareness involving Governments of various countries; National Agricultural Research Systems and other research institutions. To implement these policies, one needs to strengthen the public – private partnerships & invest on human resource development. The needs may vary from country to country depending on the existing capacities. APCoAB is planning to bring out publications based on scientific and factual information on attempts to take the technology to the farmer. Also, number of workshops have been planned on issues related to biosafety; assess existing capacities for the implementation of biosafety protocol & cartegena protocol; bring awareness about issues related to IPR etc. The next meeting of the APCoAB's Steering Committee meeting is due on 30th November 2004 at Bangkok.

Annexure – I: List of Member Institutions

Asia-Pacific Association of Agricultural Research Institutions

- AARINENA - Association of Agricultural Research Institutions in North East and North Africa
- ACIAR - Australian Centre for International Agricultural Research
- AIT - Asian Institute of Technology, Thailand
- APAFRI - Asia-Pacific Association of Forestry Research Institutions
- APSA - Asia Pacific Seed Association, Thailand
- AREO - Agricultural & Natural Research Organization (Iran)
- AVRDC - The Asian Vegetable Research and Development Center
- BAR - Bureau of Agricultural Research (Philippines)
- BARC - Bangladesh Agriculture Research Council
- CARP - Sri Lanka Council for Agricultural Research Policy
- CGPRT - The Regional Co-ordination Center for Research and Development of Coarse Grains, Pulses, Roots and Tuber Crops in the Humid Tropics of Asia and Pacific, Indonesia
- CIMMYT - International Maize and Wheat Improvement Center
- COA - Council of Agriculture, Taiwan
- DOA - Department of Agriculture, Thailand
- IAC - Institut Agronomique neo-Caledonien (New Caledonia)
- ICAR - Indian Council of Agricultural Research
- ICARDA - International Center for Agricultural Research in the Dry Areas
- ICBA - International Centre for Biosaline Agriculture
- ICIMOD - International Centre for Integrated Mountain Development
- ICRISAT - International Crops Research Institute for the Semi-Arid Tropics
- IFPRI - International Food Policy Research Institute
- ILRI - International Livestock Research Institute
- IPGRI - International Plant Genetic Resources Institute
- IRRI - International Rice Research Institute
- ISNAR - International Service for National Agricultural Research
- IWMI - International Water Management Institute
- JIRCAS - Japan International Research Center for Agricultural Science
- MAFF - Koronivia Research Station, Ministry of Agriculture, Fisheries and Forest (Fiji)
- MARD - Ministry of Agriculture and Rural Development (Vietnam)
- MARDI - Malaysian Agricultural Research Development Institute
- MCFF - Ministry of Commerce, Forests and Fisheries (Western Samoa)
- NACA - Network of Aquaculture Centers in Asia-Pacific
- NARC - Nepal Agricultural Research Council
- NARI - National Agricultural Research Institute (Papua New Guinea)
- PARC - Pakistan Agricultural Research Council
- PCARRD - Philippines Council of Agriculture Forestry, and Natural Resources Research & Development
- RDA - Rural Development Administration (Republic of Korea)
- The World Fish Center, Malaysia

Annexure – II: APAARI Publications

- Bi-annual APAARI Newsletter
- APAARI Success Stories
- APAARI - A Decade of Progress, 2001
- APAARI Vision 2025.
- ICT in ARD: Status and Progress in the Asia-Pacific Region (in 2004)
- Agricultural Research Priorities for Asia and the Pacific – A Synthesis
- Directories of Agricultural Research Institutions
- Proceedings of Expert Consultations and APAARI Meetings

Success Stories

- Baby Corn Production in Thailand (1994/1) by Dr. Chamnan Chutkaew and Dr. R.S. Paroda
- Tilapia Farming in the Philippines (1994/2) by Dr. Rafael D. Guerrero III
- Hybrid Rice in China (1994/3) by Mr Lou Xizhi and Dr. C.X. Mao
- Dairying in India (1994/4) by Dr. R.P. Aneja
- Hybrid Cotton in India (1995/1) by Dr. A.K. Basu and Dr. R.S. Paroda
- Palm Oil Industry in Malaysia (1995/2) by Dr. Y.B. Basiron
- Transformation in Korean Farming – A Success Story of Effective Linkages (1996/1) by Dr. Chae Yun Cho
- Cotton Production in Pakistan (1996/2) by Dr. Badaruddin Soomro and Dr. Parvez Khaliq
- Orchids in Thailand (1997/1) by Dr. Kanchit Thammasiri
- Wheat Production in Iran (1997/2) by Dr. Abbas Keshavarz and Dr. M.J. Mirhadi
- Agro-Tourism in Australia (1997/3) by Dr. Tom Connors
- Direct Seeded Rice in Malaysia (1998/1) by Dr. Cheong Ah Wah
- Groundnut in China (1998/2) by Dr. Duan Shufen, Dr. Hu Wenguang and Dr. Sui Qingwei
- Oilseeds in India (1999/1) by Dr. Mangala Rai
- Integrated Pest Management in Rice in Indonesia (1999/2) by Dr. Soejitno
- Bivalve Mariculture in India (2000/1) by Dr. V.N. Pillai, *et. al.*
- Farming of Carrageenophytes in the Philippines (2001/1) by Dr. Rafael D. Guerrero III
- Resource Conserving Technologies: Transforming the Rice-Wheat Systems of the Indo-Gangetic Plains (2002/1) by Dr. Raj K. Gupta, *et. al.*
- Success Story on Control of Newcastle Disease in Village Chickens (2003/1) by Dr. Robyn Elders
- A Success Story on Lentil Improvement in Bangladesh (2004/1) by Dr. Ashutosh Sarker, *et. al.*
- A Success Story on Sustaining Green Revolution (2004/2) by Dr. S. Nagarajan (under print)
- A Success Story on Biological Pest Control in India (2004/3) by Dr. S. P. Singh (under print)
- A Success Story on Trout Farming in Nepal (2004/4) by Dr. A. K. Rai, *et. al.* (under print)

Proceedings of Expert Consultations and Meetings

- NARS-CGIAR Partnership for Agricultural Research and Development, 1996
- Research Priority Setting by the NARS, 1996
- Management and Strengthening of Research Networks, 1997
- Research Management Mechanisms of NARS, 1998
- Developing APAARI Vision 2025, 1999
- Development of Asia-Pacific Agricultural Research Information System (APARIS), 2000
- Regional Priority Setting for the Agricultural Development in the Asia-Pacific Region, 2001
- Status of Biotechnology in Agriculture in Asia and the Pacific, 2002
- Development of Second Phase of APARIS, 2002
- Strengthening of Research Partnerships Through Networks and Consortia, 2002
- Establishment of Asia-Pacific Consortium on Agricultural Biotechnology, 2003
- Strengthening Regional Agricultural Information System and Regional Research Networks, 2003
- Post Harvest Technologies, 2004 (to be held in December 2004)