

ANENT

Asian Network for Education in Nuclear Technology

Rohini Hewamanna
Atomic Energy Authority
Sri Lanka

Trieste-2004

4

Background

- In 2002 IAEA adopted a resolution on Nuclear Knowledge Management
- Reiterated in 2003 and 2004 General Conference
- This emphasizes the importance of Nuclear Knowledge Management and called on MS and Agencies to strengthen efforts in this regard

Trieste-2004

5

- IAEA convened a consultancy meeting
- ANENT- *Asian Network for Education in Nuclear Technology* was established in 2004

Objectives

- To facilitate cooperation in education, research and training in nuclear technology

Criterion adopted

- To share information and materials related to nuclear education & training
- Exchange of students, teachers & researchers
- To establish reference curricula & facilitate mutual recognition of degrees
- To facilitate communication between regional, global networks & other institutions

Trieste-2004

8

Key facts on Asia

- Expansion & growth for nuclear power is currently centered in Asia
- In 2002 all new nuclear plant construction in Asia
- The resources available & degree of knowledge among countries vary depending on the usage of nuclear technology and the level of national development
- Diversity in utilization & development of nuclear technology

Trieste-2004

9

eg.

- Some countries have well developed nuclear power programmes (Japan, ROK, China, India , Pakistan)
- Some have plans for the future to develop nuclear power (Vietnam, Indonesia)
- Some countries use nuclear technology for non power purposes (Australia in medical applications)

- Availability of well established programmes to educate & train in fields of nuclear sc. & technology
- eg. ROK – 6 Universities offer courses in Nuclear Engineering
- Countries planning nuclear power programmes need to develop human resources
- eg. Vietnam anticipates the need of around 500 trained personnel to prepare for their nuclear programme

- Vietnam lacks sufficient qualified & experienced personnel to meet the requirement to train
- Opportunity for ***potential knowledge donors*** to assist countries in need by providing teaching staff or accept students in their Universities.
- ***Exchange programmes (students, teachers, researchers)***
- ANENT is a mechanism to facilitate this

Trieste-2004

12

Facilitate mutual recognition of degrees- Harmonisation

- Degrees to be mutually recognised by ANENT members
- To maintain professional standards basic requirements for reference curricular need to be established
- Could provide career opportunities for those working in nuclear fields
- Perhaps generate greater interest to work in the nuclear field by the young

Trieste-2004

13

Concept of cooperation and sharing

- RRU/RCA Programme
- Due to lack of large resources some members lack basic facilities required for nuclear education & training
- ANENT would enable members lacking such facilities to access members possessing facilities

Implementation of ANENT

- **First phase:** 5 activities identified at the 1ST Coordination Committee Meeting held in Feb 2004
- **Action Plan** was agreed for each activity
- Implementation is by a voluntary institution

Activities

- Exchange of information & materials for education & training
- Exchange of students, teachers, researchers
- Distance Learning
- Establishment of ref curricular & mutual recognition
- Liaise with other networks & organisations
- KAERI (ROK)
- MINT(Malaysia)
- PNRI(Philippines)
- HUT(Vietnam)
- AEA (Sri Lanka)

- Information & material for education & training in nuc technology will be collected & placed on the ANENT web expected to be operational by end of 2004
- ANENT members would evaluate existing curricular & establish requirement for reference curricular in nuc sc.
- Member institutions would identify suitable institutes for placement of staff.
- A mechanism would be worked out to establish exchange programmes. Encourage bilateral cooperation at the beginning

- Develop distance learning
Training & Education materials available will be placed on ANENT web site. ANENT will consider developing new materials only where non existent
- ANENT will learn from already operating other networks ENEN

- 17 Institutions had become participating members in ANENT
- Membership is open to Universities, research centres, Government agencies and other institutions involved in nuclear education and training

- In order to fulfill the diverse requirements of the region

ANENT is focused in education and training and will give importance to both Energy and non energy technologies.