ANENT
Asian Network for Education in Nuclear Technology

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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
IAEA convened a consultancy meeting

ANENT- *Asian Network for Education in Nuclear Technology* was established in 2004

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**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

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**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
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 science & 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

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**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
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 reference 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 nuclear 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.*