ANENT Activities for Knowledge Sharing and Dissemination

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Asian Network for Education in Nuclear Technology (ANENT) is a regional partnership, supported by the IAEA, aiming the cooperation toward capacity building, human resource development and knowledge management in nuclear science and technology in the Asia Pacific region.

ANENT has 19 member countries in the Asia Pacific region and 8 collaborating member organizations.

ANENT activities have been carried out focused on cooperation and sharing of information and knowledge through E&T by utilization of e-Learning platform.

- Web-portal Upgrading and Integrated Database
- Utilization of ANENT Regional LMS
- Development of Education Material
- Promotion of ANENT
- Collaboration with IAEA and other Networks
Overview of ANENT (2)

History and Future

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>1999</td>
<td>Korea proposed to IAEA</td>
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<td>2000</td>
<td>Korea proposed regional networking</td>
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<tr>
<td>2001</td>
<td>Preparatory meeting held</td>
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<tr>
<td>2002</td>
<td>ANENT launched</td>
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<tr>
<td>2003</td>
<td>The first TC project launched</td>
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<tr>
<td>2004</td>
<td>SWOT Analysis(1)</td>
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<td>2005</td>
<td>The second TC project launched</td>
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<tr>
<td>2006</td>
<td>SWOT Analysis(2)</td>
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<tr>
<td>2007</td>
<td>The third TC project launched</td>
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**Preparation Stage**
- Development of General Infrastructure

**Stage 1**
- Focus on Web-Based Learning Infrastructure

**Stage 2**
- Nuclear E&T through e-Learning and ICT

**Stage 3**
- Networking for E&T, and outreach program

**Stage 4**
- TC Project on Web-based Education and Training
- TC Project on e-Learning and ICT
- TC Regional Project on Networking
Main ANENT Activities during 2004-2015 (1)

Development of ANENT Web Portal and LMS

- https://www.anent-iaea.org

Web Portal renewed in 2014

ANENT Regional LMS renewed in 2014

(Old version)
Main ANENT Activities during 2004-2015 (2)

- E-Training activities using ANENT regional/national LMS
  - 7 TTT (Train The Trainer) e-Training courses on ANENT LMS
  - 5 e-Training courses on energy planning

- Workshops and Meetings
  - Workshops & technical meetings on curricula, NKM, LMS, etc.
  - Coordination meetings every year
  - Webex online coordination meetings every 3 ~ 4 months
Partnerships within ANENT members and beyond Asia

- PA between IAEA and KAERI in 2009
  - To promote ANENT activities in April 2009
- PA between ANENT and ENEN in 2009
  - To implement and disseminate curricular and materials
- PA between KUSTAR and IAEA in 2010
  - To install CLP and enhance cooperation in E/T and research
- Cooperation Agreement with other networks in 2013
  - To expand partnership and cooperation with LANENT, AFRA-NEST and ENEN
Main ANENT Activities during 2004-2015 (4)

Major achievements of the last 10 years

- Development of ANENT web portal
- Development of ANENT regional /national LMS
- Development of e-Learning materials
- 7 TTT e-Training courses and 5 e-Learning courses using the LMS
- Meetings, workshops, trainings and fellowships
- Partnerships within ANENT members and beyond Asia

Contribution
- Establishment of web-based E&T infrastructure
- Knowledge sharing and dissemination
- IAEA inter-regional networking
New ANENT Project for Networking

Outline of the New TC Project RAS/0/075
• Title: Networking for nuclear education, training and outreach programmes in nuclear science and technology in the framework of ANENT
• Duration: from 2016 to 2019 for 4 years
• Budget: €860,000 (included EB)

Coordination and Kick-off Meeting
• IAEA Vienna, 9-13 May 2016
Main Activities of New ANENT Project (1)

Utilization of ANENT regional/national LMS
• To analyse and collect efficient e-Learning materials and methodology
• To distribute materials available to the ANENT Members
• To train how to manage the e-Learning contents using ANENT LMS
• To implement e-Learning courses using ANENT LMS

Sharing and dissemination of outreach contents
• To share the existing outreach materials available in the region
• To develop outreach contents and disseminate through ANENT
• To develop e-Learning course based on outreach contents
• To organize outreach conference for secondary school teachers

Internet research reactor laboratory (IRL) project
• To select a suitable research reactor in the region as the host
• To prepare the necessary hardware for the purpose
• To develop standard experiment procedure for IRL operation
• To implement the internet research reactor experiments under IRL project
Implementation plan for the next 4 year project

**Meeting/Workshop**
- Kick-off Meeting (IAEA)/Workshop (Korea)
- Meeting (Japan)
- Meeting/Workshop

**e-Learning Implementation**
- TTT e-Training NAA Contents
- e-Training/e-Learning
- Activities using ANENT LMS

**Outreach for Teachers and Students**
- Outreach Contents
- Outreach Conference

**IRL** (Internet Research Reactor Laboratory)
- Selection Host Country
- Hands on RR Training
- IRL Implementation

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*IRL: Internet Reactor Lab.*

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Knowledge Sharing and Dissemination through Networking for Nuclear E/T and Outreach Programmes
Conclusion

ANENT is one important and useful approach to enhance sharing and dissemination of nuclear knowledge in the Asia Pacific region

- Main ANENT activities focused on the development of a web-portal and cyber learning platform, implementation of e-Learning courses and partnerships within ANENT members and beyond Asia
- ANENT has contributed to establishment of web-based E&T infrastructure in Asia, and the IAEA inter-regional networking
- Good linkage and cooperation/collaboration between regional networks is important to ensure sustainable sharing and dissemination
- For successful implementation of the next ANENT activities, it should attain participation with corresponding responsibility from each ANENT member country
Thank You