LESSONS LEARNED
from
Education in Nuclear Engineering
at Hanoi University of Technology

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LESSONS LEARNED BY HUT

- Initiative of First Minister of MHE of VN
- 1962-1963: Send young people abroad for HE on Nuclear Sciences and Nuclear Engineering
- 1968-1969: prepare ground for establishing the Department of Nuclear Physics and Engineering
- 1970: Official establishment of DO NPE at HUT
- 1970-1993: best students of HUT came to DO NPE
- Since 1970: DO NPE introduced NDT, improved nuclear geophysical applications ....

L1. To find out a close relation between the course to be studied and the urgent short term and/or long term demands of the country is the most important guarantee for a successful nuclear education programme.
### LESSONS LEARNED BY HUT

| 1968-1970: Goals: + To develop peaceful applications of atomic energy in VN + To train up engineers on nuclear electronics for supporting the first objective + To prepare initial manpower for introduction of Nuclear Power to VN. |
| 1994-1999: No students on NPE! |
| Feb 2000: DO NPE was renamed as DO NEEP= Goals: + To develop peaceful applications of atomic energy in VN + To prepare initial manpower for introduction of Nuclear Power to VN + To develop utilizations of nuclear and other physical techniques for environmental monitoring and impact assessment. |
| From 2000 up to now: 7-8 new students per year |
| 2003-2004: among 20 HUT’s excelent students: 1 from DO NEEP |

#### L2.

To establish proper objectives aiming to satisfy the above-mentioned demands of the country is an important guarantee for the success.

### LESSONS LEARNED BY HUT

| Education Programme of DO NEEP: |
| Stage 1: was set up in 1969-1970 |
| Stage 2: was set up in 2000 ++ |
| Stage 3: under construction |
| (Tentative programme = Table 2. in POSTER) |

#### L3.

**Education programme must** provide student knowledge which is of:

- **wide-enough profile** (for heightening capacities of seeking jobs of graduated students in today labor market in the country);
- **High-enough quality** (for better integration and successful co-operation).
L4.

To train-up teaching staffs of high consciousness of responsibility and of a quality as high as possible is a key guarantee for the success.

LESSONS LEARNED BY HUT

• 1981-1983: First IAEA TC project.
• 2002: Technical support from Co-operation Project between HUT and Group of Belgian Universities (VLIR).
• 2003-2004: IAEA TC Project VIE/0/010 ➔ extension for 2005-06?
• 2004-2005: BNEN grant for first young assistant lecturer of HUT to participate in Master Courses on Nuclear Engineering in Mol, BELGIUM.

L5.

Effective international assistances and co-operations are of extremely high importance in heightening level of teaching staffs as well as in development of technical base of the nuclear education programme of DO NEEP.
L6. To have a practical plan for using the well trained-up people is necessary for the success.

L7. For a developing country such as Vietnam, it is necessary to have a unified programme of actions of all the institutions related in nuclear education of the country for meeting its short term and/or long term demands. Realization of such necessity requires close and flexible co-operations of the universities and research institutes between themselves as well as with the state organ authorized in peaceful applications of atomic energy of the country.

For us:

Very good model for Education in Nuclear Engineering = Consortium BNEN = SCK-CEN + 5 Universities = International Centre of high level.
For kind memory of the Members of the First Technical Meeting of Asian Network for Education on Nuclear Technology (23 – 27 Feb 2004, Kuala Lumpur, Malaysia)

From Phung Van Duan
(HUT, Vietnam)
Thank You for your attention!

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Let’s go together
to more fruitful cooperation
in Education on Nuclear Engineering!