

COE-INES Indonesia International Symposium –The Prospect of Nuclear Energy in Indonesia– 参加報告

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出張先: バンドウン(Grand Aquila Hotel)、インドネシア

There were many topics about the prospect of nuclear energy in South East Asia which were carried out to discuss at COE-INES Indonesia international symposium such as innovative nuclear energy system, innovative nuclear reactors, small nuclear reactors, innovative fuel cycle, waste management, and related technology, nuclear non-proliferation, innovative energy transmutation, material for innovative nuclear energy system, energy analysis, and other topics about nuclear energy, etc.

In fact, the symposium was held for 3 days working time with plentiful presentations in both of plenary session and parallel one, especially, the presentation of Prof. H. Sekimoto from Tokyo Institute of Technology in theme of “COE-INES Overview”. It was very interesting speech; we could find much useful information on it. Throughout the speech, the structure of COE-INES program (The 21<sup>st</sup> Century Centre of Excellence Program - Innovative



COE-INES Indonesia International Symposium

Nuclear Energy Systems for Sustainable Development of the World) was manifested clearly. We also could find that the plentiful R&D activities have been carried on, such innovative nuclear reactors, innovative separation and transmutation technologies..., and plans to promote the international collaboration for research and education on innovative nuclear energy systems. And we could understand why the COE-INES Indonesia International Symposium was carried out.

Other important presentations gave us an outline of nuclear energy and energy utilization in Indonesia, in particular and in South East Asia, in general. Such as “Past, Current and Future Application of Nuclear Science and Technology for Energy in Indonesia”; “Nuclear Power in Indonesia – A Japanese Perspective”; Indonesian Activities on R&D on Reactor Technology”, etc...

An interesting session is the parallel session, in which all most of presenters were the doctoral students. They are young people and enthusiastic study. They presented a lot of practical researches, such as “Thermal-Hydraulic Performance of Printed Circuit Heat Exchanger in Carbon Dioxide Gas Turbine Cycle”; “Research on new type of fuel cell”; “Role of Minor Actinides for Protected Plutonium Production (P<sup>3</sup>)(I)-Application of P<sup>3</sup> in Uranium Fueled PWR\_”; etc...



Panel discussion

It is not adequate if we would not mention to another activity in this symposium, I suppose that it is also very interesting part of the symposium: The Panel Discussion. In this activity, the participants joined and discussed in the themes of Education in Nuclear Field and Attractiveness of Job in Nuclear Field very exciting. And a lot of problems in nuclear field were carried out to dissect and discuss. However, there were still some comments that did not follow the discussed

themes closely. And some comments were not outspoken when mentioned on delicate problems. Anyhow, this is the useful discussions for all participants.

Beside of the symposium, an additional program was provided to visit Institute Technology of Bandung and BATAN Reactor for all participants. There are good facilities for supporting studies and researches. It was also interesting that BANTAN Reactor (TRIGA 2000) is a biggest research reactor in Indonesia. It has been started to operate since 2000 without any accident or break-down. One of tissues for such safe operating that I suppose is the teams of



Model of TRIGA 2000

scientists, researchers and operators with a responsible mental and experienced knowledge. According to these experiences, Indonesia can implement international collaborations to carry out the nuclear power plants for supplying energy to economic-social development and peaceful uses.

Replacing the conclusion, I would like to quote the words from the leader of COE-INES program in the closing ceremony of the symposium that “The COE-INES Indonesia International Symposium would not be organized successfully and gathered such fruitful results without the efforts of Bandung Institute of Technology (ITB) and National Nuclear Energy Agency (BATAN)”. The symposiums or conferences are very important for international collaborations. They can promote good researches and enhance the quantity of studies for every researcher.