

IAEA Internship Report

Term: Sep 23 – Dec 16, 2007

Intern: Sou Ryuzaki, Doctoral Degree Candidate of Department of Nuclear Engineering

Organization: International Atomic Energy Agency (IAEA), Vienna, Austria

I joined the International Internship Program by COE-INES and worked for IAEA (International Atomic Energy Agency) as an internship student from Sep 23, 2007 to Dec 16, 2007. I could get many valuable experiences through the internship program

IAEA, which consists of 144 Member States, is an international organization for promoting the peaceful use of nuclear energy and carrying out safeguards of utilization for military purposes. This organization and the Director General, Mohamed ElBaradei, jointly won the Nobel Prize for Peace on October 7, 2005. In there, I belonged to the Physics Section of NAPC (The Department of Nuclear Science and Applications / The Division of Physical and Chemical Sciences). This section is responsible for organizing international conferences for accelerators, research reactors and nuclear fusion, and for indicating a future direction of these research fields.

Under the supervision of Dr. S. Paranjp (supervisor) and Dr. G. Mank (section head), I did the following tasks; (1) preparation for proceedings of ICRR (International Conference on Research Reactors); (2) installation of papers and slides of conference participants to CD-ROM; (3) test of an online application system, LISA (Lightweight Interactive Storage Application) for Linux. I will explain the above three tasks in details.

First of all, as for task (1) and (3), it was necessary for me to study research reactors by reading articles or technical books, because I had to categorize the topic number of papers submitted via the online application system (LISA) by using technical keywords. The LISA system has been used not only for conference registration and paper submission but also for administration of participant information. After testing LISA on a Linux system, I classified the final version of papers for publication, by communication and discussion with a staff of the physics and other sections of IAEA. Secondary, as for task (2), I prepared the distribution CD-ROM made up of html programs with help of Ms. M. Isshiki who is an IAEA consultant, because I was not familiar with html language.

Besides the above tasks, I attended technical meetings for research reactors, which were held at IAEA. This was a great opportunity for me to study research reactors through the idea, opinion, and perspective of experts in this field. Initially, it was difficult to understand their talks, because this research fields were completely different from my doctoral study and additionally my English ability was not so good. However, owing to my supervisor and his colleagues taking much time to talk with me, I could not hesitate to ask them any question by disturbing their discussion. In addition, we have the section meeting every Thursday and discuss some issues on the main work of this section and have an open dialogue on how to improve the work processes of the section and

division and coordinate efforts in a more fruitful manner. These meetings were useful for me not only to improve my English skills but also to learn a leadership for managing stuffs from abroad.

Furthermore, I had an opportunity to learn many different cultures and to make many foreign friends by communicating with the other interns. Especially, I had the most impression to have a special meeting with DG, M. ElBaradei.

In my private things, this trip was the first time for me to go abroad and live alone. As you know that Vienna is the capital of music, I enjoyed many concerts of opera and classic music during my stay. A historical whole cityscape, in particular European mid-century churches, impressed me as well. Once going abroad, I really reminded the wonderfulness of Japanese culture. I truly recognized that it is important to understand Japanese and foreign cultures for making an international society.

Finally, I would like to give my thanks to all member of Physics Section especially to Dr. Pramjpe and Dr. Mank, for providing a clear guidance and suggestion on my work, and appreciate the professors and staffs at Tokyo Institute of Technology, in particular for Prof. Saito, Prof. Yamano and Prof. Onoe, for giving an opportunity to stay in Vienna. I also give my thanks to Ms. Isshiki for helping my stay in Vienna.



Photo 1 Research reactor of the Atom Institute, Vienna.



Photo 2 Physics section members with Author (third left: Dr. Mank, first right: Dr. Paranjpe)



Photo 3 Graben street of Vienna