## Agenda

## ICC-IMR Workshop on the Current Status and Prospects of Collaboration between SCK/CEN and IMR Using BR2

## Part 1. "Radiation damage in structural materials"

September 11, Friday, 2009, 16:00 - 19:40 RM8B, Sapporo Convention Center, Sapporo, Japan

| 16:00 ~ 16:10 | Opening  | Tatsuo Shikama, Tohoku Univ.   |
|---------------|--|--|
| 16:10 ~ 16:35 | Study on neutron irradiation effect application,   | on superconducting wires for fusion Arata Nishimura, NIFS            |
| 16:35 ~ 17:00 | Irradiation effects on carbon materi - Structural changes, hydrogen diffu                                  |  |
| 17:00 ~ 1745  | Overview of radiation damage in m<br>vessel, corrosion of internals, radiat<br>modeling, fusion materials) | · · · · · · · · · · · · · · · · · · ·                                |
| 17:45 ~ 18:10 | The mechanism of irradiation harde A.Kimura, T.Kudo, R.H.  | ening of iron model alloys<br>Kasada, M.Saitoh, H.Yano, Kyoto Univ.  |
| 18:10 ~ 1835  | Study on SiC/SiC composite and Si  | C ceramics for nuclear application<br>Shuhei Nogami, Tohoku Univ.    |
| 18:35 ~ 1900  | Recent progress in the research of r   | adiation damage in vanadium alloys<br>Ken-ichi Fukumoto, Fukui Univ. |
| 19:00 ~ 19:15 | Introduction of IMR/Oarai for researand IMR  | arch collaboration between SCK/CEN Hiroaki Kurishita, Tohoku Uhiv.   |
| 19:15 ~ 19.35 | Discussion   |  |
| 19:35 ~ 19:40 | Closing  |  |

## Part 2. "Atomic scale modeling and irradiation technology"

September 14, Friday, 2009, 10:00~16:00 Meeting Room, Honda Memorial Hall, IMR, Tohoku Univ. Sendai Japan

| 10:00 ~ 10:10 | Opening   |  |
|---------------|---|--|
| 10:10 ~ 1055  | SCK-CEN activities in the frame of atomic-scale modeling of radiation damage in pactor materials  Dmitry Terentyev, SCK/CEN   |  |
| 10:55 ~ 11:20 | Multiscale modeling of material property changes in high energy proton irradiation  Toshimasa. Yoshiie*, Masayoshi Kawai**  *Kyoto Univ., **KEK   |  |
| 11:20 ~ 11:45 | Irradiation research of nuclear materials  Akira Hasegawa, Tohoku Univ.   |  |
| 11:45 ~ 12:10 | Nanostructural studies of Cu-rich nano-precipitates and defects in nuclear reactor pressure vessel steels and their model alloys by positron annihilation and laser-LEAP  Takeshi Toyama, Yasuyoshi Nagai, Tohoku Univ. |  |
| 12:10 ~ 13:10 | Lunch   |  |
| 13:10 ~ 13:55 | Overview of the irradiation devices and experiments in the BR2 reactor Jean Dekeyser, SCK/CEN   |  |
| 13:55 ~ 14:20 | In-situ radiation experiments and post irradiation examinations using BR-2 reactor Bun Tsuchiya, Luqman Hakim, Tohoku Univ.   |  |
| 14:20 ~ 14:45 | Development of radiation resistance components for ITER-alpha particle diagnostics  Masaki Nishiura, NIFS   |  |
| 14:45 ~ 15:05 | Importance of low temperature irradiation experiments  Toshimasa. Yoshiie, Kyoto Univ.  |  |
| 15:05 ~ 15:30 | Present status of BR2 materials irradiation and PIEs at IMR/Oarai Center Minoru Narui, Hiroaki Kurishita, Tatsuo Shikama, Tohoku Univ.  |  |
| 15:30 ~ 1555  | Discussion  |  |
| 15:55 ~ 1600  | Closing   |  |