

5. Japan-China Collaboration for Magnetic Confined Plasma Fusion

The Japanese government agreed with the Chinese government on the cooperation in the area of Magnetic Fusion Energy Research and Development and Related Fields in 2007. Five collaboration forms are agreed as follows:

- 1) Execution in collaborative research
- 2) Exchange of technological information, data and knowledge.
- 3) Education and training
- 4) Exchange of devices, instruments and materials.
- 5) Holding joint meeting, seminar and workshop.

Then the 1st Joint Working Group (JWG-1) meeting for the implementation arrangement between the MOST (Ministry of Science and Technology) of China and the MEXT (Ministry of Education, Culture and Sports, Science and Technology) of Japan for the cooperation was held in Chengdu, China on Sept 25, 2008.

Both parties reached the consensus on the structure of JWG in accordance with the provisions of the implementing arrangement, and gave their approval to the appointment of the following principal coordinators, technical coordinators and contact persons:

For China side:

Principal coordinator:

Mr.MENG Shuguang (mengsg@most.cn), Deputy Director-General of the Department of International Cooperation of MOST

Contact person:

Mr.CAI Jianing (caijn@most.cn), Director of the Division of International Organization and Conference, Department of International Cooperation of MOST

Technical Coordinators:

Mr.LUO Delong (luodl@most.cn), Deputy Director-General, China International Nuclear Fusion Energy Program Execution Center, MOST

Mr.DUAN Xuru (duanxr@swip.ac.cn), Deputy Director of Center for Fusion Science of SWIP

Mr.HU Liqun (lqhu@ipp.ac.cn), Deputy Director of the Division of Tokamak of ASIPP

Contact person:

Mr.HE Kaihui (iterchina@most.cn), Department of International Cooperation of ITER China Office.

For Japanese side:

Principal coordinator:

Mr.CHIHARA Yoshiyuki (chihara@mext.go.jp), Director of the Division of International Nuclear and Fusion Energy Affairs, MEXT

Contact person:

Ms.TAKAGI Tomomi (ttakagi@mext.go.jp), Unit Chief, International Nuclear and Fusion Energy Affairs Division, MEXT

Technical Coordinators:

Mr.MATSUMOTO Taro (tmatsumo@mext.go.jp), Researcher, International Nuclear and Fusion Energy Affairs Division, MEXT

Mr.USHIGUSA Kenkichi (ushigusa.kenkichi@jaea.go.jp), Principal Scientist, Division of Tokamak System

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Mr.KUMAZAWA Ryuhei(kumazawa@LHD.nifs.ac.jp), Professor, National Institute for Fusion Science (NIFS)

Contact persons:

Mr.SHIRAI Hiroshi(shirai.hiroshi@jaea.go.jp), Group leader, ITER Project Promotion Group, JAEA, and

Mr.YAMADA Shuichi (yamadas@LHD.nifs.ac.jp), Associate Professor, NIFS

The JWG-1 confirmed that SWIP and ASIPP are the two main Chinese institutes for the implementation of this arrangement. JAEA and NIFS are the two Japanese implementing organizations. Chinese side took a notice that all universities affiliated with NIFS in the field of fusion are also included.

Both parties mutually agreed the principle for identification of joint programs for FY2008 and emphasized the free information exchange between fusion scientists and expected to send about 12 person week from each party to the other in FY2008. Considering budget constrains and less than half year left for FY2008, the JWG-1 agreed that the collaborative forms should be mainly on personnel exchange in the field of common interests of both sides. For this purpose, JWG-1 assigned technical coordinators of both sides to reach consensus on specific collaborative program by the end of October, 2008.

Both sides recognized the participation of experiment mainly through personnel exchanges is a viable cooperative form for FY2008, and the importance to develop the fusion technical cooperation, taking into account the avoidance of overlap of programs under bilateral S&T cooperation scheme, for example, ITER Agreement, Core University Program (CUP) and etc.

The JWG-1 agreed on the joint establishment of workshop or seminar under this arrangement. The JWG-1 agreed that the next meeting would be held in Japan. For the exact time and place of the meeting, it will be decided through consultation of two parties. The JWG-2 can be followed with the workshop in Naka and/or Toki.

In the fiscal year of 2008, two scientists in SWIP and two scientists in ASIPP visited NIFS: Lieying Yao and Dr. Yingqiao Wang in SWIP visited NIFS for March 16-22 and discussed the control scheme of the power supplied of the HL-2M coil system and ECRH system. Two scientists in ASIPP, i.e., Dr. Chundong Hu and Dr. Zhimin Liu visited NIFS for researching the NBI technologies for LHD for March 17-27. They discussed NBI systems and the related technology with the LHD-NBI group and joined the experiments of high-power ion sources.

Dr. Shuichi Yamada visited ASIPP, IPC and IEE for March 3-11 and discussed with Profs. Y. Song and Y. Bi about the HTS current-lead trial for the ITER. Dr. Sadatsugu Muto visited ASIPP (hosted by Prof. Liqun Hu) for Feb.23~Mar.1 2009 and discussed with the Chinese scientists about the system design study and operation of X-ray diagnostics in HT-7 tokamak.

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