



# The First Meeting of The Union for Compact Accelerator-driven Neutron Sources

## Background

During the course of design, construction and initial operation of the Low Energy Neutron Source (LENS), scientists and engineers of Indiana University have worked closely with the counterparts from the US pulsed neutron sources. In June 2009 the International Mini-Workshop not only kicked off the Compact Pulsed Hadron Source (CPHS) at Tsinghua University, China Project but also fermented the notion of cooperation among accelerator-based-compact-source enthusiasts in many places in the world. A series of subsequent exchanges, contacts, and teleconference attested to the common desire for collaboration. The recent ICANS-XIX Meeting (March 2010, Grindelwald, Switzerland) offered an opportune occasion to consolidate an alliance; and, in a satellite meeting in Kloten on March 13, 2010 participants unanimously acceded to the establishment of the **Union for Compact Accelerator-driven Neutron Source (UCANS)**. The eight initial members—those in attendance—are: from the USA Argonne National Lab (ANL) and Indiana University, from Japan the High Energy Accelerator Research Organization (KEK), Hokkaido University, Kyoto University and RIKEN, from China Peking University and Tsinghua University, with additional potential members from elsewhere. Jack Carpenter of ANL will serve as a spokesperson of UCANS. In view of the actively ongoing works on accelerators, target-moderators, instruments and optics, all members felt a genuine need for frequent meetings (every ~6 months rather than 2 years like ICANS). Positively, UCANS is not exclusive of but complementary to ICANS. The first meeting is scheduled to be held at Tsinghua University in Beijing, August 15-18, 2010.

## Scope and Objectives

The scope of the UCANS-I Meeting encompasses technical and scientific issues pertinent to compact accelerator-driven neutron sources. The objectives include

1. To consolidate the UCANS organization and membership,
2. To identify areas of cooperation,
3. To determine near-to-long term R&D goals and schemes of collaborations among member institutes, and
4. To clarify the roles of UCANS in the development and utilization of neutron-sources and related accelerator-driven technologies.

The official language of the meeting is English.

Focused topics include, but not limited to, accelerator & beam optics, target radiation damage & heat removal, moderator neutronics, optics devices & detectors, innovative instrumentation, and emerging science and novel applications that are relevant to long-pulse medium-flux neutron sources.

## Organizers

Meeting Organizers: Paul Sokol (Indiana), Jie Wei (Tsinghua), and Yoshiaki Kiyonagi (Hokkaido)

Program Committee: David Baxter (Indiana), Chun Loong (Tsinghua), Hirohiko Shimizu (KEK), Yoshihisa Iwashita (Kyoto)

Local Organ. Comm.: Chun Loong (Tsinghua), Zhiyu Guo (Peking U), Xuewu Wang, Xialing Guan & Beibei Shao (Tsinghua)

Spokesperson: Jack Carpenter (Argonne)

Administrative secretary: Dong Xu (Tsinghua) [xudong83@tsinghua.org.cn](mailto:xudong83@tsinghua.org.cn), Phone: +86-(0)10-62792533

**Registration, Abstract Submission, Lodging & Venue, ...**  
please see <http://www.indiana.edu/~lens/UCANS/>

