International Workshop on Coated Conductors for Applications, CCA 2014

February 11, 2015 (HE100). The International Workshop on Coated Conductors for Applications, CCA 2014, was held at Jeju Grand Hotel, Korea, from November 30th to December 3rd, 2014. This workshop was hosted by three institutions, The Korea Institute of Applied Superconductivity and Cryogenics (KIASC), The Korean Superconductivity Society (KSS) and The Korea Industries Confederation for commercialization of Superconductivity (KICS). The meeting was chaired by Prof. Gye-Won Hong and Dr. Sang-Soo Oh.

The Workshop was attended by 148 registrants from 11 countries. Nine representative enterprises from four countries exhibited their cutting-edge applications.

The main topics of this workshop were:

- Applications of Coated Conductors,
- Processing & Characterization of Coated Conductors,
- Standardization of Coated Conductors,
- Long-length Coated Conductors & Industrial Innovation,
- Coated Conductors Using Non-cuprate Materials.

During the Workshop, many excellent R&D achievements in coated conductors and their applications were presented in 4 plenary, 44 invited and 64 oral contributed talks; all were open to discussion. The main issues were (a) flux pinning enhancement in current-carrying capacity of coated conductors for expanding high field applications, and (b) applications in high field magnet for NMR and wind generators. For the first time, a session on standardization of coated conductors was organized thus reflecting the industrial needs.

A rump session was also held to facilitate substantive communication between wire makers and superconducting device developers. Coated conductor requirements for various superconducting devices such as power transmission cables, fault current limiters, wind power generators and high field magnets were intensively discussed. The detailed program of the Workshop is accessible here. The group photo of participants in shown below.

After closing of the Workshop, a technical tour to the Superconducting Power System Center JEJU was arranged on December 3rd by KEPCO and LS Cable. Many participants joined the tour to see the world's first demonstration site of a DC superconducting cable system in the functioning electric power grid.

Group photo of CCA 2014 participants

The next CCA Workshop will be held in the United States in 2016. The venue and date will be announced separately.

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