

Report on the IUPAC Sponsored “9th International Conference on Novel Materials and their Synthesis” (IUPAC NMS-IX)

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The IUPAC International Conference on Novel Materials and Synthesis (NMS), was initiated in 2005 in Shanghai. Since then it was jointly held with International Symposium on Fine Chemistry and Functional Polymers (FCFP). The latter was incepted in 1987 in China and has been well established on an almost annual basis since its birth. This year, it was the ninth time for both conferences to be jointly held, which was taken place during October 17-22, 2013 at Fudan University, Shanghai, China.

Fudan University was established in 1905 and is one top university in China. Its goal is to become one top university over the world in 2020s. The name “Fudan” was from the Confucian Classics, which means unremitting effort and pursuit. It is situated in Shanghai City, the west coast of the Pacific, the most dynamic metropolis in China, which held the World Expo in 2010 with the most visitors so far in the history of Expo.

The NMS-IX & FCFP-XXIII were sponsored by International Union of Pure & Applied Chemistry (IUPAC), The National Natural Science Foundation of China, Science and Technology Commission of Shanghai Municipality, Shanghai Key Laboratory of Molecular Catalysis and Innovative Materials, and National Basic Research Program of China (2007CB209700). Prof. Dr. Li Jin (Vice President, Fudan University), Prof. Dr. Stanislaw Slomkowski (IUPAC representative), Prof. Feixue Gao (Representative of NSFC), Prof. Heyong He (vice Dean, Department of Chemistry, Fudan University) and two cochairs delivered welcome and opening addresses in the morning of October 18, 2013.

The IUPAC NMS-IX & FCFP-XXIII was joined by about 300 participants from over 30 countries and areas. Some from industries were also present. It received over 300 abstracts. The Conference mainly discussed innovative chiral and achiral compounds, bio- and biobased materials and composites, polymers such as conducting, semiconducting ones and supramoleculars, energy systems including fuel cells, solar cells, lithium batteries and supercapacitors and their key materials, nanomaterials such as one-, two-, and three-dimensional (1D-, 2D- and 3D-) nanomaterials, ceramic materials such as super- conductors, electronic, diaelectronic, ferroelectric, piezoelectric, optoelectric and magnetic materials, carbon, fullerene, graphene and graphite, and other novel materials and new characterization methods. Famous scientists such as Prof. Ada Yonath from Weizmann Institute of Science, Rehovot, Israel (Nobel Laureate of Chemistry in 2009), Prof. Yi Cui from Stanford University, USA, Prof. Thomas (Tomasz) Dietl from Polish Academy of Sciences, Poland, Prof. Hiroshi Kitagawa from Kyoto University, Japan, Prof. Yasuhiro Nakazawa from Osaka University, Japan, Prof. Nikolay E. Nifantiev from Russian Academy of Sciences, Russia (IUPAC Representative of Russia), Prof. Stanislaw Slomkowski from Polish Academy of Sci., Poland, Prof. Gordon G. Wallace from University of Wollongong, Australia, Prof. Volker Warzelhan (former president of BASF) from Carbon Composites Co., Germany, Prof. Huiming Cheng from Institute of Metal Research, Chinese Academy of Sciences, China, Prof. Jiandong Ding from Fudan University, China and Dr. Mario Malinconico (IUPAC

Representative of Italy) gave lectures on their respective excellent research work. Speakers from companies also introduced their latest development on novel materials.

For the second time, IUPAC Prof. Jiang Novel Materials Youth Prize was awarded. The winners are Prof. Yuguo Guo from Institute of Chemistry, CAS, China and Dr. Xiongwen (David) Lou from National University of Singapore, Singapore. Each winner received a cash prize of USD 1000 and a refunding of return air-tickets to the Conference. Three participants from Japan and Poland won the IUPAC Poster Prize. In addition, Distinguished Award 2013 for Novel Materials and their Synthesis was granted to Dr. Mario Malinconico (Italy).

The discussion during the Conference was very active, and a lot of participants highly evaluated this Conference and its organization, regard it as a high-quality stage to exchange academic ideas on novel materials and synthesis, and strongly demand its yearly organization.

During the Conference, the Organization Committee provided some free wonderful social programs such as night cruise along Pujiang River, watching acrobatic performance and one-day city tour. The participants knew more about Fudan University, Shanghai, and China. The local organization activities were mainly taken by Prof. Yuping Wu and Prof. Shiyong Guan's labs.

The NMS International Organizing Committee has decided to hold the next Conference in Zhengzhou, China in October 11-15, 2014.



(a)



(b)



(c)

Fig.1 Some photos from (a) Opening of the Conference, (b) Public lecture given by Nobel Laureate, Prof. Ada Yonath, and (c) Awarding Ceremony of Distinguished Award 2013 for Novel Materials and their Synthesis.