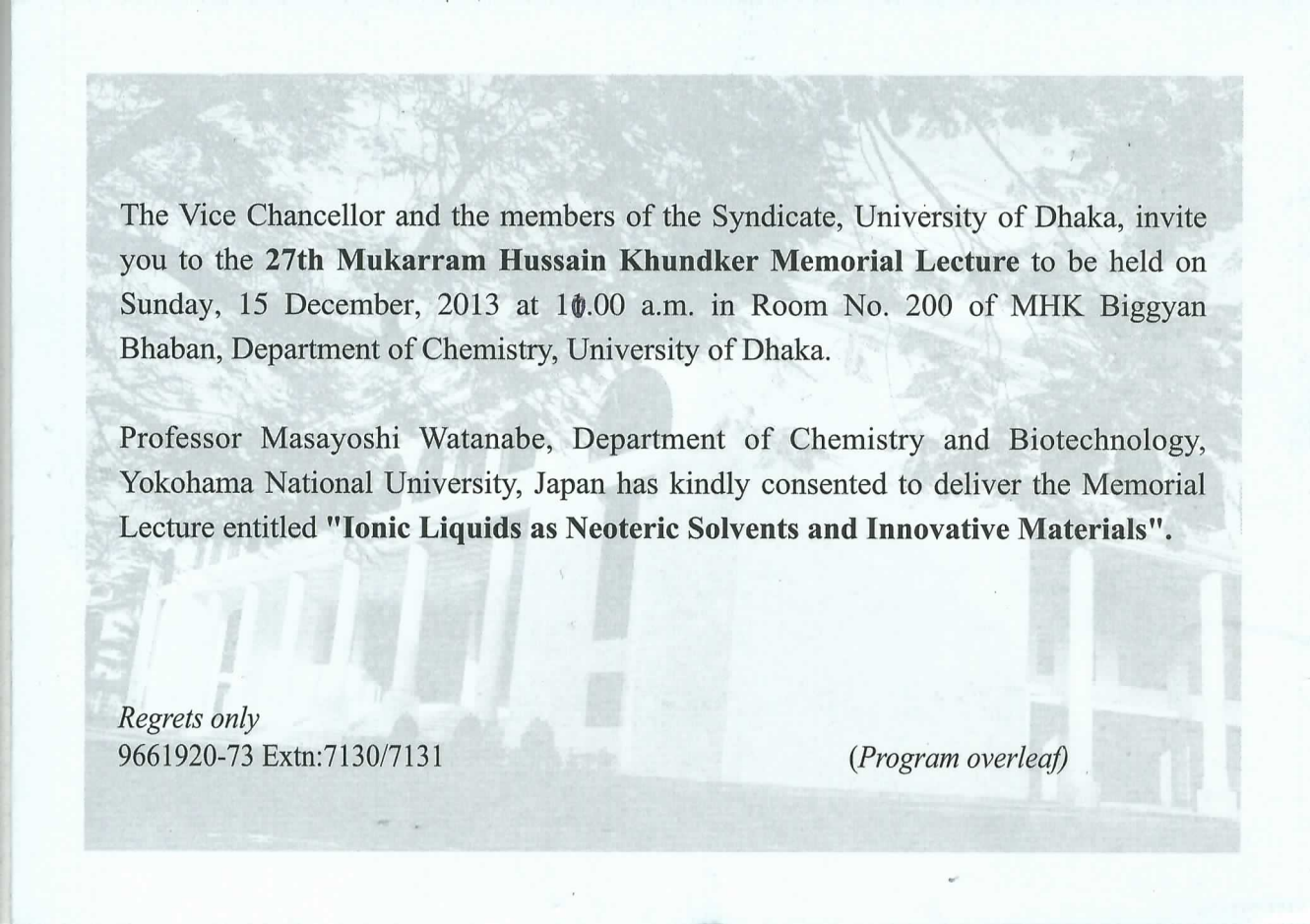




**THE 27TH  
MUKARRAM HUSSAIN KHUNDKER  
MEMORIAL LECTURE  
2013**



The Vice Chancellor and the members of the Syndicate, University of Dhaka, invite you to the **27th Mukarram Hussain Khundker Memorial Lecture** to be held on Sunday, 15 December, 2013 at 10.00 a.m. in Room No. 200 of MHK Biggyan Bhaban, Department of Chemistry, University of Dhaka.

Professor Masayoshi Watanabe, Department of Chemistry and Biotechnology, Yokohama National University, Japan has kindly consented to deliver the Memorial Lecture entitled "**Ionic Liquids as Neoteric Solvents and Innovative Materials**".

*Regrets only*

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*(Program overleaf)*



***Program***

10:00 a.m.

*Tilawat-e-Quran*

10:05 a.m.

Life Sketch of Professor M. H. Khundker

10:15 a.m.

*Address of Welcome*

**Professor Dr. A A M S Arefin Siddique**

Vice Chancellor, University of Dhaka

10:25 a.m.

*Mukarram Hussain Khundker Memorial Lecture*

**Professor Masayoshi Watanabe**

Department of Chemistry and Biotechnology

Yokohama National University, Japan

11:25 a.m.

*Vote of Thanks*

**Professor Etmina Ahmed**

Chairperson, Department of Chemistry

University of Dhaka

## Mukarram Hussain Khundker Memorial Lecture

### *Ionic Liquids as Neoteric Solvents and Innovative Materials*

Ionic liquids are now being recognized as the third group of solvents, following water and organic solvents. They are easily available and possess unique properties such as nonvolatility, high thermal stability, and designability, which make it possible to use them on demand and under unusual conditions. This lecture will focus on understanding of the unique properties of ionic liquids and on their utilization as neoteric solvents and electrolytes for new materials and devices that can help to realize a sustainable society. More specifically, ionic liquids can serve as neoteric electrolytes in electrochemical-energy-conversion systems.  $H^+$  and  $Li^+$  conducting ionic liquids are prepared in order to realize innovative fuel cells and batteries. Ionic liquids also exhibit unique solubility toward polymers; this opens up a new field of intelligent material chemistry. These challenges aim at developing new materials and devices for a sustainable society on the basis of a thorough understanding of ionic liquids.

### **Biography of Professor Masayoshi Watanabe**

Masayoshi Watanabe is a Professor of Yokohama National University, Japan. He received his B.S. (1978), M.S. (1980), and Ph.D. (1983) degrees from Waseda University, Japan. In 1982, he joined Sophia University, Japan as a research associate. After serving as a visiting scientist with Professor Royce W. Murray at University of North Carolina (1988-1990), he moved to Yokohama National University in 1992 and became a full Professor in 1998. He received the Lecture Award for Young Scientists from the Chemical Society of Japan in 1991, the Award for Creative Work from the Electrochemical Society of Japan in 2006, the Award of the Society of Polymer Science, Japan in 2006, the Best Teacher Award from Yokohama National University in 2007, and Distinguished Research Award of Yokohama National University in 2012.

Prof. Watanabe's research interest has been mainly concerned with "ionics" and "nano-structured materials". Ionics has become an important scientific area for the realization of key materials for advanced electrochemical devices, which supports a sustainable society. He is one of research leaders in the fields of ionic liquids and polymer electrolytes in the world. Recent research activity has been expanded to nano-structured materials, including block copolymer assembly in ionic liquids. He has published more than 280 original research papers and 150 books and reviews in these and related fields.

Number of Citations > 11000, h-index > 57.