

**Title Recent Advances in Pool Boiling Heat Transfer**

**Speaker** Prof. Satish G. Kandlikar  
Gleason Professor of mechanical Engineering  
Rochester Institute of Technology  
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**Date & Time** Friday, October 24, 2014 3:00 p.m.

**Place** I<sup>2</sup>CNER Hall, Ito campus, Kyushu University

**Abstract**

In recent years, significant advances have been made in developing new approaches toward enhancing pool boiling heat transfer. These approaches go beyond the enhancement provided by conventional fins and increased cavity densities. The talk will introduce the new understanding gained through recent work on wettability control and hierarchical micro-nano structures and provide guidelines for future developments in this area.

**About the Speaker**

Prof. Satish G. Kandlikar is a Gleason Professor of mechanical Engineering at Rochester Institute of Technology in Rochester, NY, USA. He has been active in research in the areas of hydrogen energy, fuel cells, microchannels, microscale transport phenomena, pool and flow boiling and microfluidics. He is the author/editor of several books/handbooks including Handbook of Phase Change: Boiling and Condensation published by Taylor and Francis, and Heat Transfer and Fluid Flow in Minichannels and Microchannels published by Elsevier Publishing Co. He has received a number of awards including the prestigious ASME Heat Transfer memorial Award.

**Host:** Professor Yasuyuki Takata

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