**IR THERMOGRAPHY IN FLUID MECHANICS AND HEAT TRANSFER**

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Thermal Engineering Department Seminar Room

3:00 PM, Friday, October 26, 2012

Prof. Hetsroni will introduce methodologies for thin film IR measurements that can be used for heat transfer measurements in a wide variety of systems. He will then describe the application of these methods for the detection of coherent structures in single-phase flows and for measuring temperature distributions on heated walls for liquid-air flows. He will also describe use of the thin film IR technique for measuring temperature fields on a horizontal surface with pool boiling and for the thermal entrance region for flow boiling in a capillary tube with dryout. Finally, he will describe his most recent experience with IR measurements of the heated wall and the fluid temperatures with micro-channels.