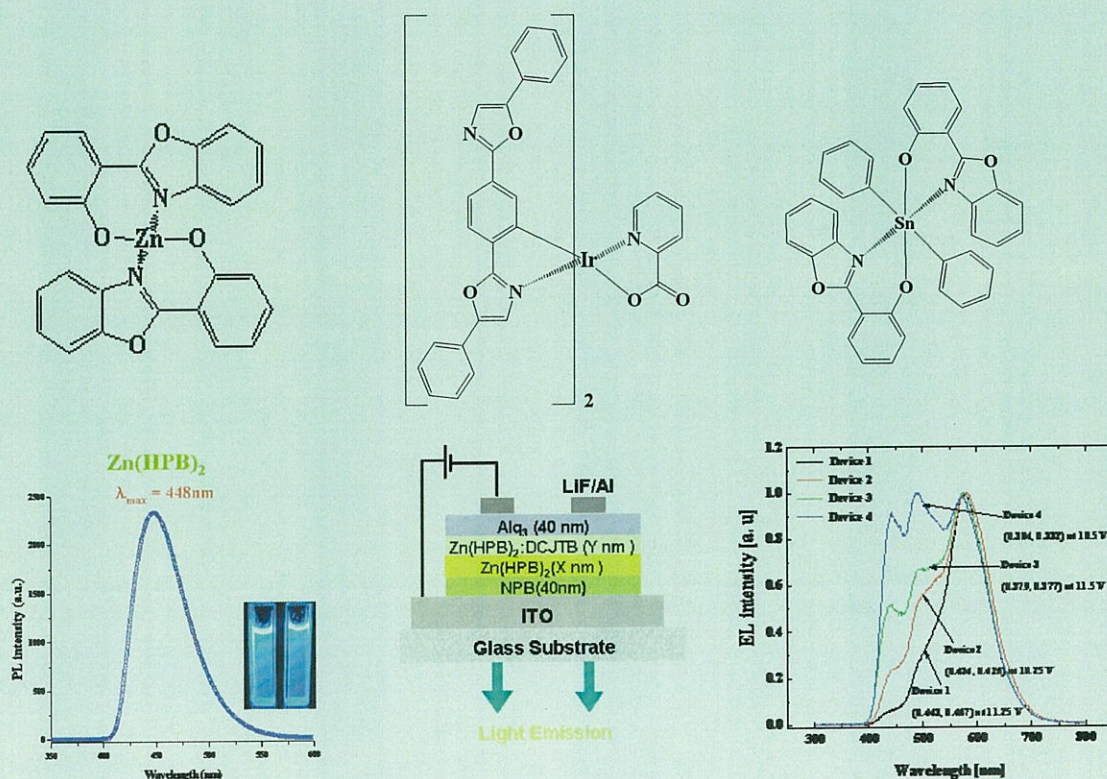


# Lecture Series on Surface Forces 6

Organized by Institute of Multidisciplinary Research for  
Advanced Materials (IMRAM) Tohoku University

1. 日時：2009年7月2日（木）14:00-15:00
2. 会場：材料物性総合研究棟1号館 1階 会議室
3. 講師：Professor Burm-Jong Lee  
Department of Chemistry, Inje University, Korea
4. 題目：Synthesis and Electroluminescence of Organometallic Complexes
5. 要旨：Novel organometallic compounds were synthesized and applied for OLED materials. The organometallic compounds could be employed as hole blocking layers as well as emitting materials. We have tried to make white OLED devices with these materials. Some white OLED results are as follows.
  - White OLED of Zn(HPB)<sub>2</sub> (blue), Alq<sub>3</sub> (green) and DCJTb (red) was realized with the CIE coordinates of (0.304, 0.332) at an applied voltage of 10.5V.
  - Ir(POB)<sub>2</sub>(pic) was synthesized as red emitting material and found to have emitting light of 600nm.
  - When the doped rate of the Alq<sub>3</sub> with Ir(POB)<sub>2</sub>(pic) was 0.6%, white emission by Zn(HPB)<sub>2</sub> (blue), Alq<sub>3</sub> (green) and Ir(POB)<sub>2</sub>(pic) (red) was achieved.
  - The CIE coordinates were (0.316, 0.331) at an applied voltage of 10.75 V.



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