

Pre Conference Workshop on

What is TOMBO?

- **TOMBO** → **TO**hoku **Mixed-Basis Orbitals** *ab-initio* program
- an efficient all-electron mixed basis (first-principles calculation) code, using both plane waves and atomic orbitals as a basis set

What can TOMBO do?

- applicable for both “supercell systems and crystals” and “atoms, clusters, and molecules”
- LDA calculations, GW approximation for low lying levels, time-dependent density functional theory, core related properties such as hyperfine structures, and absolute energy value estimation of electron affinity and ionization potentials

Who should attend?

- University academics
- Researchers from Industry
- postgraduate students
- Engineering, Science and Life-Science

Benefits*

- **FREE executable program and LDA source code**
- lectures on scientific aspects of the method and its applications
- hands-on activities on selected problems
- lecture notes provided
- lunch included

Contents

- Lectures by TOMBO developers on
 - introduction of *ab-initio* simulation for explaining materials properties and designing new materials
 - importance of all electron formulation in *ab-initio* simulation and TOMBO project
- Presentation by TOMBO users
- Hands-on Session
 - exercises with TOMBO

*for downloading the TOMBO-related documents, executable program & LDA source code:

<http://www.ohno.ynu.ac.jp/tombo/index.html>

Speakers

- Professor Kaoru Ohno, Yokohama National University, JAPAN
- Professor Yoshiyuki Kawazoe, Tohoku University, JAPAN
- Dr Ryoji Sahara, National Institute for Materials Science, JAPAN

VENUE & DATE

- Berjaya Times Square Hotel, Kuala Lumpur
- **8 August 2017** (8.30 am to 5:00 pm)

REGISTER NOW before 15th May 2017

REGISTRATION FEE (early bird)

- **RM 424** (inclusive of 6% GST)

for registration:

<http://umconference.um.edu.my/ACCMS-9=3346>

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