

Quantum Engineering Design Course

Master Thesis Presentation

Date : 18. June. 2010 Time : 13:00-17:00

Venue : Seminar room, 1F, Building A, Center for Advanced and Innovation,
Suita Campus, Osaka University

PROGRAM

Moderator : Joaquin Lorenzo Valmorio Moreno

13:00-13:05 Picture taking

13:05-13:10 Opening remarks by Prof. Hideaki Kasai

13:10-13:30 Nguyen Quang Tien (M2 Kasai Lab)

“Adsorption of Nitric Oxide on Metal Porphyrin Tape

The Role of Metal Porphyrin Tape as Sensor in Detecting Nitric Oxide Gas”

13:30-13:50 Seo Junghee (M2 Shibutani Lab)

“Adsorption and Reaction of Hydrogen Sulfide on Metal and Overlayer Surfaces by
First-principles Calculations”

13:50-14:10 Aspera Susan Menez (M2 Kasai Lab)

“DFT-based Studies on the Potentials of g-C₃N₄ as Catalyst for Alternative Energy Sources”

14:10-14:30 Li Xing Sheng (M2 Kurashiki Lab)

“Study on Mechanical behavior of Metallic Diaphragm under Forming and Clicking Load based on
FEM”

14:30-14:40 Coffee Break

Moderator : Handoko Setyo Kuncoro

14:40-14:50 Short speech from Prof. Hrmawan (Institut Teknologi Bandung)

14:50-16:10 Fajarisandi Dimas (M2 Kasai Lab)

“First-principles Study of Oxygen Adsorption on Zig-Zag Edge N-doped Graphene”

16:10-16:30 Ferensa Oemry (M2 Kasai Lab)

“Nitrogen Monoxide Adsorption on Platinum Tetramer Clusters Coated on γ -Al₂O₃ (111) Surface”

15:30-15:50 Coffee Break

15:50-16:05 Ta Viet Ton (M1 Yagi Lab)

“Dynamics of a stochastic adsorbate-induced phase transition model”

16:05-16:20 Allan Abraham Bustria Padama (M1 Kasai Lab)

“Cr-decorated Ni Surface as Anode for Alkaline Polymer Electrolyte Fuel Cell”

16:20-16:35 Nguyen Duy Huy (M1 Morikawa Lab)

“First-principles study on spin polarization of zigzag border C/BN nanotubes”

16:35-16:50 Saputro Adhitya Gandaryus (M1 Kasai Lab)

“Adsorption and dissociation of O₂ molecule on Co-(6)Ppy clusters : DFT study”

16:50-17:00 Closing remarks by Prof. Yoshitada Morikawa