

## **November 10**

E1 building (1F), No. 10 classroom

**Chairman : Jin Onuki (10 : 00~11:00)**

### **1, Special Guest**

Nanoscience and Engineering for Energy: Problems and Solutions

University of Illinois, Professor Andrew A. Gewirth

**Chairman : Jin Onuki (11 : 10~12 : 10)**

### **2, Special Guest**

Electrodeposition of Through Silicon Via(TSV)

Osaka Prefecture University, Professor Kazuo Kondo

**Chairman : Shun Nakayama, Kouhei Taguchi (13 : 10~14 : 10)**

3, The behavior of hydrogen in aluminum alloy subjected to different heat-treatments

Ibaraki University, Takahito Watakabe

4, A Trial Production on Multi-jointed Robot Finger as Part of Engineering Education

Ibaraki National College of Technology, Yuki Sakuma

5, An Examination of the Adsorption of Basic Dye (Bromothymol Blue) from dye wastewater by  
Sri Lanka Montmorillonite nanoClay

University of Kelaniya, Sri Lanka, S.P. Indika Pushpa Kumara

6, Computer Simulation of Precipitation Process in Si / (Ge+Cu) Amorphous Multilayer Films

Ibaraki University, Ahmad Ehsan Bin Mohd Tamidi

**Chairman : Ryosuke Nishimura (14 : 20~15 : 20)**

7, Deposition of Gold Nanoparticles on Glass Plates by Electroless Metal Plating Technique and  
Their Optical Absorption Properties

Ibaraki University, Yuya Ishii

8, Development of Methods for Producing Silica-Coated Luminescent Semiconductor  
Nanoparticles and Their Fluorescence Imaging Ability

Ibaraki University, Hiromu Matsudo

9, An application software for messaging in disaster-affected areas

Ibaraki University, Takahiro Mizuo

10, Grain refinement of a Zn-Al eutectoid alloy by hot-rolling

Ibaraki University, Toshiaki Manaka

## **November 11**

E1 building (1F), No. 10 classroom

**Chairman : Jin Onuki (10 : 00~11 : 00)**

**11, Special Guest**

The Rebirth of Rokkakudo

Ibaraki University, *Professor Emeritus* Isoji Miwa

**Chairman : Jin Onuki (11 : 10~12 : 10)**

**12, Special Guest**

Friction stir welding and processing

Professor Sergey Minolve

**Chairman : Yasuhiro Shiroki, Shinichiro Yokoyama (13 : 10~14 : 10)**

**13, Report of Overseas Science Seminar Tour in the USA**

Hitachi first Senior High School, Kazuma Sato

**14, Observing the Mysterious Ecology of Hikarimo**

Hitachi first Senior High School, Miki Sato

**15, Tangential coefficient effects on the temperature of the wire bonding operation reliability**

Ibaraki University, Shusuke Kamo

**16, Numerical estimation of Ohmic loss of high power wideband diplexer for ECCD system**

Ibaraki University, Kohei Atsumi

**Chairman : Hiroki Hasegawa, Kouhei Taguchi (14 : 20~15:05)**

**17, Research and development of high power wide-band polarizer for ECCD system in JT-60SA**

Ibaraki University, Naoya Sugiyama

**18, Research of under water sensing system using electrolocation**

Ibaraki University, Yuusuke Watanabe

**19, Three-dimensional Measurement of Snake Locomotion Using Stereovision**

Ibaraki University, Kouya Hirayama

**Chairman : Keisuke Ohnuma, Shinichiro Yokoyama (15 : 15~16:00)**

20, Mg<sub>2</sub>Si Thin Film Prepared by Annealing in Noble Gas Atmosphere

Ibaraki University, Tatsuya Ando

21, Analysis of mixed pesticide by laser mass spectrometry

Ibaraki University, Hiroki Nakanishi

22, A high-power pulsed sputtering device with modified penning geometry

Ibaraki University, Takamitsu Kikuchi