Volume 5/2014  September ~ October

INSIDE THIS ISSUE:

EDUCATIONAL INNOVATIVE MOTORSPORTS AND AUTOMOTIVE RACE DAY 2014  2

ACADEMIC VISIT BY TOKYO UNIVERSITY OF AGRICULTURE & TECHNOLOGY  3

ACADEMIC VISIT BY RITSUMEIKAN UNIVERSITY  3

ACADEMIC VISIT BY HITA HIGH SCHOOL  3

THE JAPANESE AMBASSADOR CUP TENNIS TOURNAMENT 2014 SEASON 2  4

MJII T LEADERSHIP LECTURE SERIES 9  5

VISIT BY PROFESSOR IKUO TANABE  5

GLOBAL FUTURE EXPERT IN SCIENCE & TECHNOLOGY (GFEST) LABORATORIES VISIT  6

SPECIAL TALK: UNIVERSITY TEKNOLOGI MALAYSIA VS UNIVERSITY OF TSUKUBA  7

A SUCCESSFUL MALAYSIA-JAPAN JOINT SYMPOSIUM ON BIOMASS, BIOENERGY AND WATER TREATMENT FOR DEVELOPMENT OF SUSTAINABLE SOCIETY (MJJS 2014)  8

INTRODUCTION TO I-KOHZA: AIR RESOURCES RESEARCH LABORATORY  9

UPCOMING EVENTS  10

NEW SEMESTER I, 2014/2015 SESSION

After 10 weeks final break for semester II, on 8 September 2014, all students have to return to their normal life as a student where the lectures for semester I will be run for 14 weeks until 21 Dec 2014.

Final examination for Semester I is scheduled to be on 29 Dec 2014 – 18 January 2015 before the students goes for final semester long vacation from 19 January – 22 February 2015.
Educational Innovative Motorsports and Automotive Race Program (EIMARace) is a design competition and racing a single-seater vehicle or cart. It is a yearly program organized by the Student Association of Mechanical Precision (PREMECH). The participants were drawn from students of higher learning institutions, polytechnics and institutes of skills throughout Malaysia. In this contest, participants are required to follow the specifications set by the organizers. Their vehicle will go through a variety of theoretical and physical test. Tests are divided into two categories: static and dynamic. Some typical examples of static tests are vehicle inspection and presentation of the design. Dynamic tests include braking, slalom, acceleration and endurance.

EIMARace 2014 was held from 17 - 19 October 2014 at the Pulau Dato’ Sagor Circuit, Perak. Organized by MJIIT in collaboration with the Perak State Government, Public Works Department and the Department of Malaysia, the launching ceremony was officiated by Mr. Ismail Mat Nor, Perak State Development Director representing the Minister of Public Works, YB Datuk Fadilah Yusof. A total of 41 teams representing the Institute of Higher Education Public / Private Polytechnics, Community Colleges, MARA, MARA College and Higher National Youth Skills Institute participated in this year competition. There were 2 categories contested, SS131 and TS250.

Among EIMARace 2014 objective is to test students’ skills in designing, analyzing and testing the ability of the racing vehicles (kart). It also exposes students to the world of motorsport technology and management aspects of the operation to produce creative, innovative and competitive students. The program will also foster relationships between higher education institutions, government and industry.

The competition results are as follows:

<table>
<thead>
<tr>
<th>Place</th>
<th>TS250</th>
<th>SS131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Champion</td>
<td>APONTEZ PKB Skull Garage</td>
<td>WT Titan’s Motosport Team Green Monsters</td>
</tr>
<tr>
<td>2nd Place</td>
<td>Taylor’s Racing Team B</td>
<td>IKBNKP Tune</td>
</tr>
<tr>
<td>3rd Place</td>
<td>SMaRT</td>
<td>Pagoh Racing Team</td>
</tr>
<tr>
<td>4th Place</td>
<td>UMP Racing Team</td>
<td>GIATMARA - Northern Team</td>
</tr>
<tr>
<td>5th Place</td>
<td>MJIIT Racing Team</td>
<td>GIATMARA - Southern Team</td>
</tr>
</tbody>
</table>

MJIIT team won the Special Jury Prize for training in the automotive industry in India for one month with the cost covered by the sponsor.
**ACADEMIC VISIT BY TOKYO UNIVERSITY OF AGRICULTURE & TECHNOLOGY**

A group of 15 students from Tokyo University of Agriculture and Technology (TUAT) visited MJIIT from the 21st to 29th September 2014 for a short-term summer program. The program is a part of TUAT AIMS Program and specially designed to provide students with a global experience. It integrates language learning, lecture attendance, work experience as Japanese Language Teacher Assistant and well-organized pre-departure orientation.

Among activities organized during the visit were attending regular classes together with MJIIT students, acting as teaching assistant for Japanese Language Class, city tour, homestay and presentation. There was a farewell lunch on the last day.

**ACADEMIC VISIT BY RITSUMEIKAN UNIVERSITY**

A delegation from Ritsumeikan University visited MJIIT on 17 September 2014. The visit was in conjunction with the Overseas Environmental Program at Ritsumeikan University. Malaysia is one of three learning sites for the program. The purpose of the visit was;

1. To understand the vision, mission and goal on education system partnership between Malaysia and Japan
2. To learn about recent topics of education or research related to sustainable development, environmental conservation and restoration technology in Malaysia.
3. To visit laboratories and undertake field tour.

The meeting was started by welcoming remarks and briefing about MJIIT by Prof. Emeritus Dr. Takashi Yamamoto, Deputy Dean (Liaison & Internationalization). The event continued with Introduction to Environmental Engineering and Green Technology (EGT) by Prof. Dr. Norio Sugiura followed by presentations on EGT post-graduate research topics by Dr. Hirofumi Hara and 2 post-graduate students. The visit ended with Q&A session and EGT lab tour.

**ACADEMIC VISIT BY HITA HIGH SCHOOL**

A group of 10 students from Hita High School visited MJIIT on 2 October 2014. As the school is a Super Science High School and have actively organized visits to Malaysia since 2012. Super Science High School status targets to produce future engineers and scientists. The purpose of visit is to learn about science technology and develop their global perspectives.

The activities included presentations in English, as the students wanted to improve their presentation skill and interaction with MJIIT students to foster their global perspectives and communication skills. They also visited MJIIT Laboratories gain an insight into scientific research in Malaysia, the differences compared to Japan and the global perspective on the respective area.
The Japanese Ambassador Cup Tennis Tournament 2014 Season 2 was held between 2nd and 4th September 2014. Domination of country based double player become a history. Combination of Japanese and Malaysian double players showed their strength by conquering all the podium positions. A proof of Japanese-Malaysian capability if we share our goal and work together.

The overall result are as below:

<table>
<thead>
<tr>
<th>Place</th>
<th>Champion 1</th>
<th>Champion 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Prof. Dr. Norio Arai</td>
<td>Dr. Mohamed Sukri bin Mat Ali</td>
</tr>
<tr>
<td>2nd</td>
<td>Dr. Wira Jazair bin Yahya</td>
<td>Assoc. Prof. Dr. Tsuyoshi Koga</td>
</tr>
<tr>
<td>3rd</td>
<td>Dr. Naoki Umemiya</td>
<td>Dr. Sheikh Ahmad Zaki Shaikh Salim</td>
</tr>
<tr>
<td>4th</td>
<td>Dr. Mohammad Ali Tareq</td>
<td>Mr. Afif Hafiz b. Mohamad</td>
</tr>
<tr>
<td>5th</td>
<td>Mr. Mohd Hatta b. Mohammed Ariff</td>
<td>Mr. Ahmad Ezainuddin b. Badarudin</td>
</tr>
<tr>
<td>6th</td>
<td>Dr. A.K.M. Muzahidul Islam</td>
<td>Ms. Huda</td>
</tr>
<tr>
<td>7th</td>
<td>Prof. Masahiko Horie</td>
<td>Mrs. Horie</td>
</tr>
<tr>
<td>8th</td>
<td>Assoc. Prof. Dr. Mahyudin Abdul Rachman</td>
<td>Prof. Dr. Ahmad Rahman Songip</td>
</tr>
</tbody>
</table>
**MJIIT Leadership Lecture Series 9**

**Building a Strong Malaysian Brand - The Japanese Experience -**

**By His Excellency Prof. Masahiko Horie**
Professor at Meiji University
UTM Distinguished Ambassador at MJIIT
Ambassador for Global Environmental Affairs (Japan)

The MJIIT Leadership Lecture Series provides a platform for representative from government and industry to share their knowledge and experience. These lectures serve to motivate MJIIT students to understand the social, cultural, global and environmental responsibilities of a professional engineer, and the need for sustainable development as well as managerial and entrepreneurial skills.

Leadership Lecture Series 9 with the title of “Building A Strong Malaysian Brand - The Japanese Experience” was held on 11 September 2014 at Main Hall, Menara Razak, UTM Kuala Lumpur. The lecture was delivered by His Excellency Prof. Masahiko Horie.

In this lecture, Ambassador Horie talked about the supportive environment of the Japanese Nation Brand and the challenges under the current globalized world. He encouraged all students to build a Strong Malaysian Brand in the World.

**Visit By Prof. Dr. Ikuo Tanabe**

TriPreM was honoured to receive Prof. Dr. Ikuo Tanabe as visiting professor to Malaysia-Japan International Institute of Technology (2nd October 2014 – 8th October 2014).

The objective of Prof. Dr. Tanabe’s visit to MJIIT is to plan the establishment of collaboration between MJIIT and Nagaoka University of Technology, in the form of joint research and supervision of post-graduate student. He also reviewed the course content for the Precision Machining/Manufacturing course.

Prof. Dr. Tanabe attended TriPreM’s rin-koh session for 3rd October 2014, and met with the Head of MPE, Dr. Aminuddin Abu. On his third day of the visit, Prof Tanabe met Deputy Dean Prof. Dr. Takashi Yamamoto, and gave a public lecture for post-graduate students of IDS and TriPreM (Development of Innovative Tool Using Taguchi-methods). - Faidhi, TriPrem Website
GLOBAL FUTURE EXPERT IN SCIENCE & TECHNOLOGY (GFEST) LABORATORIES VISIT

On 29 October 2014, a team of 4 from GFEST University of Tsukuba, Japan made an official visit to MJIIT. Members of the delegation were Prof. Dr. Takashi Tsoubouchi (Department of Intelligent Interaction Technologies), Prof. Dr. Shinobu Satoh (Director of Educational Planning Office, Faculty of Life & Environmental Sciences), Prof. Dr. Tatsuya Nabeshima (Dean, College of Chemistry, Faculty of Pure & Applied Sciences) and Ms. Yoshimi Ojima (Graduate School of Life and Environmental Sciences). The purpose was to visit and find out the status of 9 selected laboratories in MJIIT UTM International Campus Kuala Lumpur. Under GFEST programme 10 Japanese high school students will be selected to undergo training abroad and attach with selected laboratories. It expected the date of this visit will be March 30th to April 3rd, 2015.

The visitors were divided into two groups. Dr. Tsoubouchi and Ms. Ojima visited Intelligent Dynamics & Systems (IDS Lab), Embedded System Research (ESR Lab), Engineering Vehicle System (VSE Lab) and Centre for Artificial Intelligence & Robotic (CAIRO) while Dr. Satoh and Dr. Nabeshima visited Chemical Energy Conversions & Applications (CheCa Lab), Centre for Lipids Engineering Applied Research (CLEAR), Biologically Inspired System & Technology (Bio-IST Lab), Metabolic Engineering & Molecular Biology Research (MeMo Lab) and Ecological Engineering Research (EE Lab).

The students are segregated into mathematics, physics, chemistry, engineering sciences, engineering systems and policy and planning sciences. It is expected that this exposure to a different environment approach will enhance the global view of the students and provide them with valuable experiences. They are expected to arrive in Kuala Lumpur on March 30th and each of them will choose one laboratory according to their needs and interest.

For further details please check-out this link http://www.jst.go.jp/cpse/gsc/about/index.html or http://gfest.tsukuba.ac.jp/ - Tuan Norazma
SPECIAL TALK: UNIVERSITY TEKNOLOGI MALAYSIA VS UNIVERSITY OF TSUKUBA

The event took place on October 29th 2014 at Dewan Jumaah, UTM International Campus in Kuala Lumpur. It was principally courtesy visit from the President University of Tsukuba, Prof. Dr. Kyosuke Nagata to the Vice Chancellor of UTM, Datuk Ir. Dr Wahid Omar. Instead of the usual meeting style, both party agreed on a special talk which centered around global role of both universities, what has been achieved so far and future goals. The talk was attended by academias and postgraduate students. - Tuan Norazma
A Malaysia-Japan Joint Symposium on Biomass, Bioenergy and Water Environment for Development of Sustainable Society (MJJS 2014)

A Malaysia-Japan Joint Symposium on Biomass, Bioenergy and Water Environment for Development of Sustainable Society was successfully held on October 30th to 31st, 2014. The event took place in Menara Razak, UTM International Campus Kuala Lumpur and was organized by the Faculty of Life and Environmental Sciences University of Tsukuba and Department of Environmental Engineering and Green Technology (EGT), MJIIT. There were 5 special lectures and 20 lectures in the regular session covering the theme of the symposium. Among the speakers, 9 speakers are professors in MJIIT. They are former dean of MJIIT, Prof. Ir. Megat Johari, Prof. Datin Dr. Zuriati Zakaria (Head of EGT Department), Prof. Dr. Norio Sugiura, Prof. Dr. Masafumi Goto, Assoc. Prof. Dr. Hirofumi Hara, Assoc. Prof. Dr. Koji Iwamoto, Dr. Rory Padfield, Ms. Effrosyni Papargyropoulou and Mr. Hiroyuki Ishizaki. The Japan Advance Institute of Science & Technology (JAIST) were represented by Prof. Dr. Akio Makishima and Prof. Dr. Mikio Miyake while 2 UTM Johor speakers were Prof. Dr. Ani Idris and Assoc. Prof. Dr. Mohd Fadhlil Md Din and Dr. Sune Ballen Hansen represented UTM Holdings (based in Kuala Lumpur).

University of Tsukuba were represented by Prof. Dr. Makoto M. Watanabe, Prof. Dr. Iwane Suzuki, Dr. Naoko Kaida and Ms. Nozomi Ihara. The rest of delegates were Prof. Dr. Tomoaku Itayama (University of Nagasaki), Dr. Kazuya Shimizu (Toyo University), Dr. Norio Nagao (UPM), Dr. Nobumitsu Sakai (UM) and Dr. Nobuyuki Kawasaki (UniSel). Two doctorate student speakers namely Gurmindor Sardool (MJITT) and Hesam Kamyab (UTM) also participated in this symposium. - Tuan Norazma
I-KOHZA

INTRODUCTION TO I-KOHZA: CENTRE FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS

Prof. Datin Dr. Rubiyah Yusof
Head of Centre for Artificial Intelligence and Robotics
Malaysia-Japan International Institute of Technology (MJIIT)

Established in 1997, Centre for Artificial Intelligence and Robotics (CAIRO) is one of the Centers of Excellence in UTM. It has established itself as the leading R&D center in AI, Robotics and Automation in the country. Its main role is to acquire advanced technologies, to be involved in research, and to work with local industries to improve their product competitiveness. CAIRO's next mission is to be an internationally acknowledged research center. CAIRO actively collaborates with various universities in Japan, France, United Kingdom and others around the world in various research areas. The ability to turn ideas into commercialized products is also of primary importance to CAIRO.

Correspondingly, a spin-off company, Augmented Innovations Sdn. Bhd (AISB), has been set up. The research outputs from CAIRO are improved further and commercialized through this company. In line with the re-structuring policy of Universiti Teknologi Malaysia, CAIRO has since expanded to include more research groups such as control, instrumentation and process tomography. CAIRO is now under a research alliance called ACE (Automation, Cybernetics, and Engineering Systems), a move by UTM in the restructuring process in order to encourage a more multidisciplinary research rather than a faculty-based.

OBJECTIVES
• To be a leading center for research and developments in the area of artificial intelligence and robotics.
• To promote the use of artificial intelligence and robotic technologies in Malaysian industries.
• To work together with industries to enhance and improve product competitiveness.
• To help local industries to acquire advanced technology and accelerating technology transfer.

VISION
To acquire advanced technologies in the areas of information technology, automation and robotics such that these technologies can be used as solutions in local industries to obtain competitive edge.

MISSION
To acquire advanced technologies in the shortest possible timeframe and to be involved in high-level research in the areas of Artificial Intelligence, Information Technology, Automation and Robotics for improvement of local industries.
Open to all current MJIIT postgraduate and undergraduate students.

JACTIM research proposal competition is an annual research competition which to promote research activities at MJIIT. The Committee welcomes research proposals on any related topic that is realistic and can be potentially collaborated with the industries.

**Topic:** Green technology for sustainable development in Malaysia

**Modalities:** Paper work and oral presentation (English)

**Deadline of submission:** Friday 3rd October 2014 @ 10PM

**Sponsorship:** JACTIM (The Japanese Chamber of Trade and Industry, Malaysia)

**Email to:** jactim2014@gmail.com

**Details:** http://mjiit.utm.my/blog/researchproposal2014/