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**“The science of today is the technology of tomorrow.”**

Edward Teller

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**THE TEAM**

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- Assoc. Prof. Dr. Anthony Centeno
- Dr. Naoki Umemiya
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- Ms. Siti Juliana Mohd Imam
- Ms. Wan Maryam Wan Zulhipli
8TH JAPANESE LANGUAGE FESTIVAL

On 4th May 2014, the 8th Japanese Language Festival was held at the MJIIT compound. This yearly event is organized by The Japanese Language Society of Malaysia (JLSM) and Malaysia Japan International Institute of Technology, UTM, is a co-organizer. The event is supported by The Embassy of Japan in Malaysia, The Japan Foundation Kuala Lumpur, and Ministry of Education Malaysia. More than 2000 participants took part. Among them were high school and university students from all over Malaysia, volunteers and cultural workshop instructors, most of whom are Japanese.

This one day event was divided into four parts. The first part had options of more than forty (40) cultural workshops, such as Origami, Kirigami, Yukata, Kendo, Takayuki, etc. The second part was a cultural demonstration of Origami and Kendo. The third part was a Japanese Language Market where food, beverage and books were available for purchase, as well information on the academic program at MJIIT and in Japan. The final part was a Japanese Culture and Language Contest, where participants competed in story telling, painting according to song lyrics, calligraphy, Soran Bushi Dance and choral speaking.

The closing and prize giving ceremony was held in the afternoon attended by H.E. Dr. Makio Miyagawa, Ambassador of Japan to Malaysia, Mr. Shoichi Toyoda, Director of Japan Foundation Kuala Lumpur, Prof. Dr. Hamdani Saini, Director of UTMKL Campus and Prof. Datin Dr. Rubiyah Yusof, Dean of MJIIT.

MJIIT as host of event won first prize for "Ms. Yukata Contest" through a third year SMJM student, Ms. Heng Chia Chia.

30TH JAPANESE SPEECH CONTEST

On 11th May 2014, The 30th Japanese Speech Contest was organized by Japan Foundation of Kuala Lumpur at the Japan Club, Taman Seputih. The objective of this contest is to deepen the understanding among Malaysian Japanese language learners on the importance of cross-cultural communications. Besides that, this contest provided a platform for Japanese language learners to express their opinions and thoughts in Japanese.

Two (2) MJIIT students participated in the Open Category, Ms. Nur Syamimi binti Mohd Jafri and Mr. Boon Chin Yap, both 2nd year SMJE students. Ms. Nur Syamimi binti Mohd Jafri presented a speech entitled "What I learned from Mother Cat" while Mr. Boon Chin Yap presented "A Tiny Water Droplet". They were accompanied by Ms. Hasparina Abdul Ghafer and Ms. Sato Yoko.
ACADEMIC VISIT TO PANASONIC
Prof. Akira Kobayashi

A study trip was undertaken to a manufacturing company for undergraduate students of MJIIT, UTM International Campus. One hundred and six MJIIT third year and second year students from MPE and ESE departments, accompanied by 10 academic staff, went to the factory of Panasonic Air Conditioner Company on the afternoon of May 8th.

The purpose of the visit was to present an understanding of how the electrical goods are produced and provide exposure to the working environment in the factory. This time we visited the Panasonic factory to study the manufacturing practice of air-conditioner production assembly line so that the MJIIT students could experience the real manufacturing process.

Panasonic is a leading company of Japanese Industry in Malaysia. Panasonic’s first air conditioner company in Malaysia was established in 1972 and today, the primary activities are in the production of room air conditioners and component parts.

In the Panasonic Factory we saw the organization of the manufacturing lines for air conditioner, especially the manufacturing process and the large machinery used. We also toured the R&D facilities. It was a good experience for each student to learn the practice of a leading Japanese company. Also, it is important for not only MJIIT students but also academic staffs to continue this kind of program with representative Japanese companies in Malaysia.
Program of Perlis Social and Education 2014 that was held between 20-24 June 2014 has greatly improved the participants’ skills in communications and directly enhanced the verbal and nonverbal knowledge by interacting with the local community. The participants consist of 28 students from Bachelor of Mechanical Precision Engineering (MPE) second year students accompanied by 3 advisors (Dr. Aminudin bin Abu, Dr. Pauziah Muhammad and Mr. Radhir Sham bin Mohamad). The program was organized to allow the participants to exert and improve their social skills.

A mild conversation to introduce one another between the participants and the host families were held on the first night after a warm welcome by the host families as well as the villagers.

On the second day, the participants went to ‘Rumah Mak Teh’, the facility acts as the caretaker for the orphans around the vicinity. The activities conducted are building ‘Menara Impian’, revising their mathematics subject and also an English word game. In the afternoon traditional games were played between the participants and the host families and other villagers. The award ceremony for the winners of the games took place in the evening. On the third day, a gotong-royong to prepare the meat for the feast in the night took place. After dinner there was a talk titled ‘Di Ambang Ramadhan’ in accordance with the coming fasting period of Ramadhan before the end of the day.

The fourth day started by heading to Kolej Vokasional Kangar. There was an opening ceremony followed by a motivational talk by Mr. Radhir Sham, as well as a boat building design contest of boat building. Later on the participants went to Kuala Perlis for dinner and sightseeing. On the last day there was an analysis of the demographic and lifestyle of the locals. After a sad parting from the host families the participants started to head back to KL.

Overall, this program definitely helps the participants in improving their soft skills and it is hoped there will be similar programs in the future.
A public lecture on The Start of The Art Nanomechanical Characterisation of Materials for Improved Performance was held on 8th May 2014 at Jumaah Hall, UTM Kuala Lumpur.

The speaker was Professor Ben Beake, Director of Materials Research at Micro Materials Ltd. Micro Materials have been making nanomechanical test instrumentation for over 25 years and have pioneered many key innovations in the field including high and low temperature nanoindentation and nano-impact testing. He is a Visiting Professor in Surface Engineering at the Dalton Research Institute, Manchester Metropolitan University, UK. He is a Fellow of the Institute of Materials, Mining and Minerals (FIMMM), an Editorial Board member for the journal Surface Engineering and is Chairman of the Institute of Physics Tribology Group. He is an author of over 100 peer-reviewed publications in international journals. His research focuses on (1) developing new nanomechanical test methods and (2) applying them to study mechanical and tribological properties of thin films and coatings to (3) help their design and optimization to increase toughness and improve wear resistance in demanding environments.

The seminar introduced the fundamentals of all the different nanomechanical test techniques (nanoindentation, nano-scratch, nano-wear, nano-fretting, nano-impact) and the environmental conditions (high temperature, low temperature, in liquids or varying humidities) that the tests can be performed in. The emphasis throughout will be on showing how the insights gained from the different techniques can be used to understand how materials behave in actual applications and lead to the development of materials and coatings with improved properties.

The seminar was split into two (2) sessions:

Part 1: Introduction to nanomechanics and nano-tribology, Nanoindentation (local mapping of hardness and elastic modulus, creep), Nano-tribology (nano-scratch, nano-wear, nano-impact)

Part 2: Research application case studies including Nanomechanics of biomedical implant materials, Nanoindentation and nano-impact for erosion prediction, Nanoindentation at high temperature
On the 21st June 2014, MJIIT Marketing Team successfully ran the MJIIT Open Day. The Open Day initiative was an opportunity for perspective students to see what MJIIT offers and allow them to experience the campus “vibe”, have face-to-face interaction with their future lecturers; and enquire about the various forms of financial aid, sport, cultural and social activities.

The objective of MJIIT Open Day 2014 was to promote MJIIT and provide a brief introduction to the programs offered at MJIIT. MJIIT offers the following postgraduate programs:

i. Doctor in Philosophy (Ph.D) (by research)
ii. Master of Philosophy (M.Phil) (by research)
iii. Master of Engineering (Electronic Systems) (by research and taught courses)
iv. Master of Engineering (Mechanical Precision) (by research and taught courses)
v. Master of Technology and Innovation Management (Management of Technology) (by taught courses)

The programs are offered in both full-time and part-time mode with specific research project supervised by supervisor/s. The Ph.D and Master degrees have been especially designed to incorporate the latest advancements in technology, offering students the exclusive experience of undertaking research under the supervision of Malaysian and Japanese experts while combining both theory and practice.

Various activities were conducted during the day including course preview, tour of the Marzuki Khalid Industrial Museum, flea market and Japanese cultural activities. Around 150 people attended the event. - Juliana Imam

UTM – NIMS TO COLLABORATE IN MATERIAL SCIENCE RESEARCH & DEVELOPMENT

Prof. Wahid during the press conference said that through the collaboration, more impactful Research and Development activities can be achieved, as expertise and resources can be synergized and optimized.

“This collaboration will benefit both parties especially in the field of Material Science. Through this memorandum, UTM postgraduate students are given the opportunity to be attached to Japanese universities laboratories for a period of between 3 and 12 months. They may also be jointly supervised by Japanese academic staff,” he said.

“The Agreement of Cooperative Graduate Program in particular will also allow joint graduate programs at doctoral level between institutions, aimed at enhancing and facilitating mobility of students and researchers,” said Prof. Wahid.

Following the signing ceremony, the delegation from NIMS visited the Faculty of Mechanical Engineering, the University Industry Research Laboratory and the Ibn Sina Institute for Fundamental Science. Also present at the signing ceremony were the MJIIT Dean, Prof. Datin Dr. Rubiyah Yusof and Senior Director of UTM International, Prof. Dr. Nordin Yahaya. - UTM News Portal

MJIIT OPEN DAY 2014

JOHOR BAHRU, 28 May – A Memorandum of Understanding (MoU) and Agreement on Cooperative Graduate Program was forged between Universiti Teknologi Malaysia (UTM) and the National Institute of Materials Science (NIMS), Japan, signaling the start of a strategic academic alliance.

This is the first MoU initiated by the Malaysian – Japan International Institute of Technology (MJIIT) in fostering collaboration with a research institution in Japan. UTM was represented by the Vice-Chancellor, Prof. Ir. Dr. Wahid Omar while NIMS was represented by its President, Prof. Dr. Sukekatsu Ushioda.

Prof. Sukekatsu (second left) exchanging the MoU document with Prof. Wahid after the signing ceremony held at UTM Johor Bahru

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v. Master of Technology and Innovation Management (Management of Technology) (by taught courses)

The programs are offered in both full-time and part-time mode with specific research project supervised by supervisor/s. The Ph.D and Master degrees have been especially designed to incorporate the latest advancements in technology, offering students the exclusive experience of undertaking research under the supervision of Malaysian and Japanese experts while combining both theory and practice.

Various activities were conducted during the day including course preview, tour of the Marzuki Khalid Industrial Museum, flea market and Japanese cultural activities. Around 150 people attended the event. - Juliana Imam
MJIIT ASEAN Student Incentive Award

KUALA LUMPUR 27 May: Universiti Teknologi Malaysia (UTM) conducted an introductory session to introduce the Malaysia Japan International Institute of Technology (MJIIT) to ASEAN countries. The session highlighted sponsorship available under the “MJIIT ASEAN Student Incentive Award” scholarship, funded by the Japan-ASEAN Integration Fund (JAIF). H.E. Dr. Miyagawa, Ambassador of Japan and Ambassadors from ASEAN countries to Malaysia attended.

MJIIT was established in 2010 as a joint venture between the governments of Malaysia and Japan to offer a Japanese-style education at the Kuala Lumpur Campus of the Universiti Teknologi Malaysia (UTM). MJIIT offers an affordable, world-class education, which is suitable to educate future leaders within the region. “MJIIT ASEAN Student Incentive Award” is a newly launched scholarship program, offering 25 scholarships for students from ASEAN member countries to study Master's Degree Program at MJIIT, for intake of September 2014/November 2014/February 2015.

The scholarship program is funded by the Japanese government through JAIF, aiming to contribute to the social and economic developments of the Member Countries and to ASEAN integration, by developing highly skilled science and technology engineering professionals. - UTMKL News Website

MJIIT 2nd Technical Committee Meeting

MJIIT 2nd Technical Committee Meeting was held on 5th June 2014. The meeting attended by MJIIT Management Team, representatives from Japanese University Consortium (JUC), Embassy of Japan (EOJ), JICA and Ministry of Education, Malaysia. The main agenda of the meeting was to update current progress of MJIIT as well as discuss the future plan.
Courtesey Visit by Japan Minister of Education, Culture, Sports, Science & Technology

On 5 May 2014, a delegation from Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan made an official visit to MJIIT. The delegation was led by H.E Hakubun Shimomura, MEXT accompanied by his wife, Mrs. Kyoko Shimomura, H.E. Dr. Makio Miyagawa, Ambassador of Japan to Malaysia, Mr. Kojiro Sato and Mr. Shigekazu Matsuura, Secretary to MEXT, Mr. Yuzuru Imasato, Director, MEXT, Ms. Yoshiko Motooka, Unit Chief, MEXT and Mr. Takashi Onuma, Inspector, Metropolitan Police Department. The main purpose of the visit was to find out more about MJIIT and the research being conducted.

The meeting started with the welcoming remarks by Prof Dr Hamdani Saidi, UTMKL Campus Director followed by a short speech by H.E Hakubun Shimomura. A briefing about MJIIT was given by Prof Emeritus Dr. Takashi Yamamoto, Deputy Dean (Liaison & International). The event continued with a visit to selected iKOHZA Laborotary (Advanced Devices and Materials Engineering (ADME) Research Lab and Vehicle System Engineering Research Lab) and Marzuki Khalid Industrial Museum. The program ended with gift exchange and group photo session at Marzuki Khalid Industrial Museum.
A 4-member high level delegation from MJIT visited the Independent University, Bangladesh (IUB) on 22 May 2014. The delegation team was headed by Prof. Toshio Wakabayashi. Assoc. Prof. Dr. Anthony Centeno, Assoc. Prof. Dr. Mahyudin Abdul Rachman and Dr. A K M Muzahidul Islam also attended from MJIT. Prof. M. Omar Rahman, Vice Chancellor of IUB, Dr. Ali Shihab Sabbir, Dean of School of Engineering and Computer Science, Dr. Khosru M. Salim, Head of EEE department, Dr. Feroz Ahmed and Dr. M. Abdur Razzak of EEE department attended the meeting from the host site.

There was a discussion on academic & research collaboration and exchanges between two Universities. It is expected that a memorandum of understanding (MOU) between two institutes will be signed within the next 2 months. Later the delegation team presented a seminar on Scholarship Opportunities & Research Activities at UTM for the students of SECS and SESM of IUB.

The delegation also visited library, laboratories and other facilities of IUB. Finally, the delegation from UTM attended a cultural program hosted by Club of Engineering & Computer Science of IUB. - IUB Website
**INTRODUCTION TO iKOHZA:**
**WIND ENGINEERING FOR (URBAN, ARTIFICIAL, MAN-MADE) ENVIRONMENT (WEE)**

The Wind Engineering for (Urban, Artificial, Man-made) Environment is established as a center to conduct a pertinence research that is related to the wind engineering applications. Research activities currently undergoing in this lab are concerned particularly on improving the efficiency of urban ventilation, enhancing pedestrian thermal comfort within an urban area, harnessing wind energy for green urban development and others practical interests that are related to bluff body flow.

The objectives of this iKohza are:
- To enhance wind engineering and technology for the development of green and sustainable urban especially in Malaysia.
- To improve the quality of research methodology and results by collaborating with other sources of expertise and technology.
- To provide market-driven services such as training, consultancy and testing, short course or other educational medium to enable knowledge transfer and sustainable income.
- To inculcate a good research culture in the research group.
- To encourage higher impact research output such as journals, intellectual properties, commercial products, etc.

The research activities are multidisciplinary, where they stretch out their research activities to the other fields such as human behavior in term of energy consumption, social system, and green technology. Their strong collaboration with several institutions in Japan and Malaysia provides not only enhance the research activities but also provides a platform for information and technology sharing.

iKohza Wind Engineering (Urban, Man-made, Artificial) for Environment is multidisciplinary of engineering and social science. In the perspective of engineering, simulation and experiment are two main modes of research, whereas in the perspective of social science, survey, interview, and site visit are means of collecting data. Researches currently being conducted involve these methods to achieve respective objectives.

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The areas that benefit from wind engineering iKohza
**CONGRATULATIONS TO ASSOC. PROF. DR. SABARIAH BT BAHARUN**

Assoc. Prof. Dr. Sabariah Bt Baharun had won **gold** and **bronze** medal prizes at the *Innovative Practice in Higher Education Expo 2014 (I-PHEX 2014)* on 23 May 2014 at Universiti Teknologi Malaysia Johor Bahru. - MJIIT Website

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**CONGRATULATIONS TO ASSOC. PROF. DR HIROFUMI HARA**

for being featured in

**International Innovation Issue 143: Regional Research**

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**CONGRATULATIONS TO TRIBOLOGY AND PRECISION MACHINING iKOHZA**

We are proudly to inform that Dr. Aung Lwin Moe’s Ph.D student, Mr. Sangeeth Suresh, Tribology and Precision Machining iKOHZA member, who recently received the Best Presenter Award at International Conference on Industrial Engineering and Applications (ICIEA 2014, workshop of ICFCC 2014) in Sydney, Australia on May 29-30, 2014.

Therefore, we would like to congratulate Tribology and Precision Machining iKOHZA and hopefully there will be more awards will come for MJIIT in near future. - MJIIT Website

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**CONGRATULATIONS TO BIOLOGICALLY INSPIRED SYSTEM AND TECHNOLOGY iKOHZA**

Dr. Azran Azhim’s team of Bio-iST iKOHZA has published a paper in Journal Biomaterials Applications, July 2014, vol. 29 which is Q1 [category: Biomedical Eng.].

The paper could be downloaded at [http://jba.sagepub.com/content/29/1/130](http://jba.sagepub.com/content/29/1/130).

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**CONGRATULATIONS TO CHEMICAL ENERGY CONVERSIONS AND APPLICATIONS iKOHZA**

Congratulations to
Mrs. Mojgan Kouhnavard, Prof. Dr. Shoichiro Ikeda and Dr. Nurulbahiyah Bt Ahmad Khaireddin

For their paper has been accepted in

*Elsevier's Journal of "Renewable and Sustainable Energy Review"* with Impact Factor: 5.627

**Journal Title:** *A Review Of Semiconductor Materials As Sensitizers For Quantum Dot-Sensitized Solar Cells*
CITRA KARISMA EXCELLENCE SERVICE AWARD UTM 2013

The Citra Karisma Excellence Service Award was established to recognize service to the Universiti Teknologi Malaysia (UTM) that exceeds job parameters. Through the efforts of this staff member, there has been noticeable improvement in specific areas at UTM. Here are list of recipients from MJIIT:

Prof. Dr. Nooh bin Abu Bakar  
Head  
Department of Management Technology (MOT)

Dr. Nor’Azizi bin Othman  
Senior Lecturer (MPE)

Dr. Hafizal bin Yahya  
Senior Lecturer (MPE)

Ms. Mazliza Aini binti Abdul Majid  
Research Officer

Assoc. Prof. Dr. Wan Haslina binti Hassan  
Head of iKOHZA  
(Communication System & Networks Research Lab)

Dr. Mohd Azizi bin Abdul Rahman  
Senior Lecturer (ESE)

Dr. Mohd Azizi bin Abdul Rahman  
Senior Lecturer (ESE)

Ms. Mazliza Aini binti Abdul Majid  
Research Officer

Mr. Ahmad Redzuan bin Mohd Hanapiah  
Assist. Vocational Training Officer (ESE)

Mr. Ahmad Redzuan bin Mohd Hanapiah  
Assist. Vocational Training Officer (ESE)

Mrs. Norhafizah binti Kamarudin  
Assist. Vocational Training Officer (IT)

Mrs. Nurulhaslinda binti Muhd Sidek  
Office Secretary