



## Rajamangala University of Technology Phra Nakhon Organized 5<sup>th</sup> English Camp

Dr. Suwanna Klomjit

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Assoc. Prof. Dr. Viroch Impithuksa, Acting President of Rajamangala University of Technology Phra Nakhon presided over the 5th English Camp on May 16, 2014 at D-Hall Convention, Faculty of Industrial Education. The English Camp project is aimed to promote the students' English efficiency through real life experience in communicating with English native speakers, to raise the campers' awareness about the importance of the English language, and to offer a learning environment that combines education, recreation and travel

in a safe and relaxed setting for both campers and leaders. This activity is a part of being World Class University policy of RMUTP.

Assoc. Prof. Dr. Viroch said that one of RMUTP missions is to be a World Class University and develop academic excellence. Therefore, RMUTP cooperates with the Association of Thai Professional in America and Canada (ATPAC), the United States of America on holding the 5th English Camp. The past 4 English camps were highly successful and got positive feedback from the students. The numbers of students participating

in this activity are increasing every year. The participants' satisfaction was high. To accomplish the program, RMUTP signed a Memorandum of Understanding with Ball State University, USA and invited Dr. Kris Rugsaken to be a coordinator providing the Camp Leaders of the English Camp.



## English Camp Comments from Bhutanese Students

It was a great opportunity for us to improve ourselves through learning speaking and building confidence. Through the English Camp it helped us to connect with many people and get to know each other. We were asked to share our own views, opinions, and became more sociable and built more confidence in ourselves. (Kezang Yuden)

... not only learning English but we got great chance to build our skill in how to work together with friends ... also know about Thailand more (Chencho)

Team leaders were so active and supportive. They asked every individual to speak out until it correct which really helped out with us. It was a good time sharing countries culture, habitation, and another idea. (Tashi Dorji)



## English Camp Comments from the Camp Leaders

"I really enjoyed my experience during the English Camp and will definitely miss my campers. They taught me so much about their culture and history, as I shared my American experiences with them." (Tanisha Elder)

"This was my first visit to Thailand, but it will not be my last. I enjoyed every moment teaching my students and fell in love with all the delicious foods in the markets. I could eat Phad Thai every day! I will miss all my students and hope to be back next year" (Ian Bennet)

"Our visit to Bangkok and Pattaya was a great experience for the entire family. The interaction with our students was priceless, as we learned so much about Thailand's rich traditions and were able to share our culture as well." (Jason Tatum)



## RMUTP and Curtin University Create International Program

On March 3, 2014, Assoc.Prof. Supatra Kosaiyakanont, Vice-President for Academic and International Affairs, presided over the opening ceremony of the meeting for creating new academic programs. The meeting was held at Rabhibhadana conference room and attended by the executives of Curtin University and the representatives of 4 faculties of RMUTP which were Faculty of Business Administration, Faculty of Engineering, Faculty of Liberal Arts, and Faculty of Mass Communication. The purpose of the meeting was to create and to develop the international program and curriculums together in order to be prepared for the ASEAN community.



## Be ready for Free World Project

Faculty of Business Administration organized a project for AEC preparation for executives and teachers who went abroad to a leading university in the Netherlands from 5th April — 10th May 2014.



## Mass Communication Technology Held the Training Course on Foreign Language for Supporting Staff

Faculty of Mass Communication Technology held a training course on "Foreign Language Potential Development for Supporting Staff" to improve the personnel's foreign language skill and prepare for the ASEAN Community or AEC (ASEAN Economic Community) coming in 2015. In The faculty invited a foreign instructor who is a native speaker to teach the university's staff from 21<sup>st</sup> April 2014 — 30<sup>th</sup> May 2014 at AD&PR Presentation meeting room, Faculty of Mass Communication Technology.



## A Chance to Do Co-operative Education Abroad for Home Economics Students

On 24th April 2014, Asst. Prof. Chayaphat Geeariyo, Dean of Faculty of Home Economics Technology, together with Deputy Dean and lecturers from the Faculty of Home Economics Technology visited IT Professional Co., Ltd., in order to consult and build up friendship for supporting graduates from Home Economics course to have a co-operative education at Orchid restaurant, a Thai restaurant in the United States of America. This restaurant has increased the number of branches in many states for supporting students to have more chances to find job and gain more experiences in foreign countries.



## English Camp, Faculty of Business Administration

Academic and Research Division and Planning Division, Faculty of Business Administration organized an English Camp under the project "Improve personnel's potential with English Camp. Prepare yourself toward AEC" for teachers and staff to build an attitude in the way of language usage, focusing on foreign language usage in real situations with many English activities at Banmai Thara and Water Sport Resort at Samut Songkhram from 26th — 28th May 2014.



## AEC English Camp 2014

Dr. Nathaporn Jindaprasert, Head of International Affairs Division, Faculty of Engineering, organized a project on instructor's development for international language in daily life and office life supporting Thailand toward AEC in coming 2015 for teachers and personnel. This project had both theoretical and practical parts emphasizing on communication such as conversation, articulation, communication activity and culture files. Guest speakers were Assoc. Prof. Dr. Tongdee Cheevapruk, National Secretary of IAESTE Thailand and Dean of the Faculty of Applied Liberal Arts, King Mongkut's University of Technology North Bangkok and her expert team. Asst. Prof. Walop Phupha, Dean of the Faculty of Engineering, presided over the opening ceremony. AEC English camp 2014 was held from 27 — 29 May 2014 at Hua Hin Grand Hotel, Prachuap Khirikhan.



## RMUTP Signed the MOU for Academic Collaboration with Germany and Netherlands, Be Ready for World Class!

From 6<sup>th</sup> – 15<sup>th</sup> April 2014, Rajamangala University of Technology Phra Nakhon visited and discussed academic collaboration with Film and T.V. University, Wurzburg University, Federal Republic of Germany and signed a Memorandum of Understanding (MOU) with Nyenrode Business University, Holland.

Assoc. Prof. Dr. Viroch Impithuksa, Acting President of Rajamangala University of Technology Phra Nakhon, said that the objectives of this project were to study and observe Digital T.V. at Film and T.V. University and Catadeneo Company. Also to study about tour systems, food and hotel to learn about ideas for tourism management. In addition, this visit was to discuss academic cooperation with Wurzburg and Nyenrode Business University, Holland on the academic internship including student and teacher exchanges for the Faculty of Business Administration.



## Signed the MOU for Academic Collaboration between RMUTP and EGAT

On 14<sup>th</sup> May 2014, Assoc. Prof. Dr. Viroch Impithuksa, Acting President of Rajamangala University of Technology Phra Nakhon signed an MOU for academic collaboration with Mr. Rattanachai Namwong, Assistant Governor for Power Plant Development and Planning, Electricity Generating Authority of Thailand (EGAT) aiming to collaborate in academic activities between Electricity Generating Authority of Thailand (EGAT) and Faculty of Science and Technology. The two parties agreed to share and integrate the similarities and the differences in science and environment with each other

for sustainable development. The Memorandum of Understanding was signed on May 14, 2014 at Rabhibhadana Meeting Room, Office of the President, Rajamangala University of Technology Phra Nakhon.



## Signed the MOU for Academic Quality Assurance in the Way of Teaching and Pushing Students

On 19<sup>th</sup> May 2014, Asst. Prof. Dr. Amara Amornkaew, Dean of the Faculty of Science and Technology accompanied faculty executives and signed a Memorandum of Understanding with the Faculty of Science and Technology, Rajamangala University of Technology Suvarnabhumi in the way of academic quality assurance, Instruction and students development, including sharing experiences and regulations.

### Congratulations to Mass Communication Technology's Dean and Home Economics Technology's Employee Rewarded "2013 Excellent Civil Servant Prize"

Congratulations to Assoc. Prof. Vimolphun Apaweth, Dean of the Faculty of Mass Communication Technology and Mr. Chayakorn Kongjinda, permanent employee from the Faculty of Home Economics Technology who rewarded on Excellent Civil servant day 2013 The event was held by Ministry of Education.

Assoc. Prof. Vimolphun Apaweth was elected to be a 2013 excellent civil servant of Ministry of Education and Mr. Chayakorn Kongjinda received "Golden Garuda Prize". Mr. Chaturon Chaisang, Minister of Education, gave a certificate and decoration of fame to esteem honor for the excellent civil servant.



### RMUTP Lecturers Received International Researcher Awards

Dr. Surachet Dejfung, lecturer of the Faculty of Engineering, and Asst. Prof. Dr. Kittisak Ariyakleu, lecturer of the Faculty of Industrial Textiles and Fashion Design, attended the press conference of "Thai Inventors Awarded from Geneva Inventions in Geneva, Switzerland" held at National Research Council of Thailand in April. RMUTP receiving inventors were as follow:

Asst. Prof. Dr. Kittisak Ariyakleu received the gold medal award by designing a special JACQUARD loom.

Dr. Surachet Dejfung received the silver medal award by inventing the Electronic Control Unit for a Dual Diesel Fuel Engine.

Asst. Prof. Dr. Kittisak Ariyakleu received bronze medal award by inventing a warp winding device to develop native hand-woven silk fabric.

Asst. Prof. Dr. Kittisak Ariyakleu received the special award by designing special a JACQUARD loom.



### Student of Home Economics Business Administration Received the Excellence Student prize

Mr. Ekkaluck Tanonseesang from the Faculty of Home Economics Technology in the major of Home Economics Business Administration, former president of Student Club and RMUTP Student association, received the excellence student prize from the Buddha Association on 22<sup>nd</sup> May 2014 at Phra Shinawongspha hall, Pichayatikaram, Bangkok.





## Chinese Students Graduated Applied Thai Program

Assoc. Prof. Dr. Viroch Impithuksa, Acting President of Rajamangala University of Technology Phra Nakhon, presided over the certificate presentation ceremony for graduates from Applied Thai program (one — year course) for 31 Chinese students, academic year of 2013 which is the co-operative project with Nanning College for Vocational Technology or NCVT, PRC on 26<sup>th</sup> March 2014 at Abhakara Meeting room, Faculty of Liberal Arts.

## Mr. Watcharapong Goes Inter, Joins the Show in “Thai New Year” in USA

Mr. Watcharapong Sungpankhow, advisor of Performing Arts Section and lecturer in English for International Communication Program was invited from the Center for the Promotion of Arts and Culture, Buriram Rajabhat University, to join the show in Thai New Year Party in order to propagate Thai folk arts and culture in California, the United States of America from 4<sup>th</sup> — 30<sup>th</sup> April 2014



## RMUTP Organized Students' Innovation and Technology Exhibition Entitled “Technological and Innovative Seeds from New Generation”



Assoc. Prof. Dr. Viroch Impithuksa, Acting President of Rajamangala University of Technology Phra Nakhon presided over the opening ceremony of “1st Rajamangala University of Technology Phra Nakhon Innovation and Technology Exhibition: 1<sup>st</sup> RMUTP ITEX” under the concept of “Technological and Innovative Seeds from New Generation” held by Institute of Research and Development at Central World, Eden 1st zone on 25th April 2014.

## Closing Ceremony: The Best and the Brightest Students of RMUTP



Asst .Prof. Yutthapoom Suvarnavej, Vice-President for Student Affairs and Information of Rajamangala University of Technology Phra Nakhon (RMUTP), presided over the closing ceremony of the Best and the Brightest Student of RMUTP project. This ceremony was held at D Hall, Faculty of Industrial Education on 5th May 2014.

## Home Economics Technology Propagates Thai Culture in “EAT! VANCOUVER 2014”

Faculty of Home Economics Technology was invited from Consul-General Sutthiluck Sangamangkang in Vancouver, Canada, to propagate Thai culture in “EAT! Vancouver 2014” festival. Included demonstrating and creating workshop for University of British Columbia, and also teaching fruit carving to ambassadors in Vancouver between 26<sup>th</sup> May — 2<sup>nd</sup> June 2014, Canada



# The Electronic Control Unit for the Dual Diesel Fuel Engine

Dr. Surachet Dechphung

## Diesel Gas Engine (DGE)

The invention is an electronic control unit (ECU) for a dual diesel fuel engine. Through the use of mathematical equations, new hardware and software have been designed to increase efficiency and reliability of the engine. The ECU has been programmed to adjust the optimum quantity of gas passing through the inlet manifold to suit all speeds and changes in terrain. Fuel gas travels through the nozzle at a controlled millisecond due to the ECU software. By inducing gas acceleration, there is no issue with knocking. As a result of the new ECU software and hardware, the combination of horsepower and torque is significantly increased. Then, the system is able to achieve a maximum cost saving of more than 50% in fuel costs.

## The outstanding features of the invention

- ECU can be used with two kinds of gases (Diesel + NGV or Diesel + LPG) Unknocking in all conditions
- Cost saving > 50% for Diesel + NGV Cost saving > 40% for Diesel + LPG
- More than 15% increase of horsepower and torque
- No need to modify engine
- Low cost for installation compared to other systems
- Low cost for maintenance

## Testing on the Road

### Cost saving for diesel + gas compared to Diesel (100%) at the same distance

Types of cars	DIESEL+NGV		DIESEL+LPG	
	Sub urban	city	Sub urban	city
NISSAN NAVARA 2.5 l	52%	42%	40%	27%
MISUBISHI TRITON 2.5 l	53%	41%	41%	28%
ISUZU DMAX 3.0 l VGS	51%	40%	40%	25%
TOYOTA COMMUTOR 2.5 l	53%	41%	44%	26%
TOYOTA VIGO 3.0 l 4x4	54%	43%	43%	29%

TOYOTA COMMUTER (2.5 common rail) with 11 passengers including their belongings

Route: Bangkok-Nakhon Si Thammarat, 1,997 km. The result of cost saving is 44%.

Fuel	distance	speed	Expense (baht)
Diesel	1997 km	90-110	6430.34
Diesel + LPG	1997 km	90-110	3574.63

## Inventor & Invention Records

1. NATIONAL PRODUCT INVENTION AWARD 2014, GOOD INVENTION, BY NATIONAL RESEARCH COUNCIL OF THAILAND (NRCT)
2. NATIONAL ENGINEERING AWARD, GOLD AWARD, COMPUTER ENGINEERING 2012, BY ENGINEERING INSTITUTE OF THAILAND UNDER H.M. THE KING'S PATRONAGE
3. SCIENCES AND TECHNOLOGY EXCELLENT AWARD 2012, BY COMMITTEE OF SCIENCES, TECHNOLOGY AND TELECOMMUNICATION, MEDIA COMMITTEE, SENATE, THAILAND PARLIAMENT
4. AUTOMOBILE INNOVATION EXCELLENT AWARD 2012, BY BANGKOK INTERNATIONAL MOTOR SHOW
5. INVENTION RESEARCHER TECHNOLOGY TRANSFER EXCELLENT AWARD 2013, RAJAMANGALA UNIVERSITY OF TECHNOLOGY PHRA NAKHON

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