

160th Anniversary of Thai-German relations “EV Hackathon for Sustainability”



In 2022, the diplomatic relations between the Kingdom of Thailand and the Federal Republic of Germany have been established for 160 years. During the past 160 years, both countries see the development of bilateral cooperation in many areas. Especially, in the area of education, the Royal Thai Government and the German Government cooperated to found the “Thai-

German Technical School” in 1959, which became known as King’s Mongkut’s University of Technology North Bangkok (KMUTNB) nowadays. KMUTNB, therefore, is a testimony of cordial ties and friendship between the two countries. To commemorate the 160th anniversary of Thai-German diplomatic relations, the Ministry of Foreign Affairs of Thailand, in collaboration with the German Embassy in Bangkok and KMUTNB, will organize the EV Hackathon Project between July to August 2022.

On 15 February 2022, the delegation from the Ministry of Foreign Affairs, including Mr. Krai Mahasandana, Deputy Director General of the Department of European Affairs, Ms. Marinee Suwanmoli, Director of Central Europe Division and Ms. Venus Aswabhum, visited KMUTNB to have a meeting with the team of KMUTNB’s executives led by Prof. Dr.-Ing. habil. Suchart Siengchin, President of KMUTNB. The meeting discussed the arrangement of a competition entitled “Future EV Mobility Creative Contest for Sustainability” to mark the

160th years of Thai-German diplomatic relations. This competition is aimed to be a platform for the competitors to generate and present creative ideas for better future electromobility for sustainable development.

The KMUTNB President assigned Prof. Dr.-Ing Nisai Fuengwarodsakul, Dean of TGGs, to lead the KMUTNB’s team in organizing this event.



Picture: On 23 March 2022, the trilateral meeting between the delegations of the Ministry of Foreign Affairs of Thailand, the German Embassy in Bangkok and KMUTNB, was virtually held to monitor the progress of the event preparation and discuss in details about the arrangement of the project.

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Academic Cooperation



Picture: Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB's President, and other executives, are handing food and offering to monks.

KMUTNB's 63rd Anniversary

On 17 February 2022, the religious ceremony to mark the 63rd founding anniversary of KMUTNB was held. Prof. Dr.-Ing. habil. Suchart Siengchin, President of KMUTNB, together with KMUTNB's executives, made merit by giving food and offerings to 9 monks. The university's founding anniversary is an auspicious occasion, so the celebration in each year began, in the morning, with the merit-making and wreath laying ceremony at monument of KMUTNB founders. However, due to the precautionary measures, the celebration in the evening still has been suspended since 2020, because of a result of the COVID-19 pandemic.



Picture from l - r of a front line: Prof. Dr.-Ing. habil. Suchart Siengchin (1st), the founding Thai principal KMUTNB's President, Asst. Prof. Preecha Ong-aree (2nd) and Assoc. Prof. Dr. and Dip. Ing. Karl Stütze, the Somchob Chaiyavej (3rd), Former Presidents and Prof. Dr. Teravuti Boonyasopon (4th), Chairman of KMUTNB's Council Committee.

At the KMUTNB founders' monument in front of TGGs Building, Chairman of KMUTNB Council Committee, KMUTNB President, Former Presidents of KMUTNB, administrators, faculty members, university staff and alumni, participated in the remembrance ceremony to pay tribute to the founders of KMUTNB; Prof. Dr. Boonyasak Jaijongkit, the founding Thai principal of the Thai-German Technical School. This ceremony was held to express the profound gratitude and deep appreciation to the two founding principals who dedicated themselves to the establishment of KMUTNB.

University of Electro-Communications (UEC), Japan



Picture from l - r: Asst. Prof. Dr. Nuttaphong Sornsuwit (1st), Prof. Dr. Somrerk Chandra-ambhorn (2nd), Prof. Ryuji Takahashi (3rd) and Assoc. Prof. Dr. Nattapong Kitsuwat (4th), representatives of KMUTNB and UEC who co-organized the seminar.

KMUTNB hosted the 8th UEC Seminar in ASEAN virtually on 5 March 2022 on the theme "Resume collaborations during with-Corona era". Prof. Dr. Somrerk Chandra-ambhorn, Vice President for Research and Information Technology Development, KMUTNB, welcomed all participants and delivered an opening remark together with Prof. Dr. Shunichi Tano, the President of University of Electro-communications (UEC), a Tokyo based national university dedicated in science and technology on higher education and research. The seminar was attended by delegates from universities from Thailand, Japan, Vietnam, Indonesia and Malaysia.

Academic Cooperation

The 8th International Conference on Education 2022 (ICEDU 2022)

King Mongkut's University of Technology North Bangkok was invited to be an Academic Partner at the 8th International Conference on Education 2022 (ICEDU 2022) scheduled to be held on 24th – 26th March 2022 in Virtual Platform. In this regard, Assoc. Prof. Dr. Pichet Sriyanyong, Dean of International College represented KMUTNB and led the team of International College (IC) to participate the ICEDU 2022. On this occasion, faculty members and students of IC presented their papers which reflected their potential for academic excellence at an international level.



Picture: Assoc. Prof. Dr. Pichet Sriyanyong, Dean of International College is giving a speech at ICEDU 2022.

The ICEDU 2022 was an innovative and informative online international conference reflecting the direction of education while offering a wide range of diversions to participants of all backgrounds. The conference was attended by 150 participants from 33 different countries.

Bremerhaven University of Applied Sciences, Germany



During February - March 2022, International College invited Prof. Dr. Gerhard M. Feldmeier, Dean of Faculty of Management and Information Systems, Prof. Dr. Birgit Vock-Wannewitz, and Prof. Dr. Wolfgang Lukas, from HBremerhaven University of Applied Sciences, Germany, to give block lectures and a special seminar to students. Despite of the current travel restriction, the college still deems it important to ensure that the students can gain insightful knowledge from international experts in the fields related to their program, such as International Business and Management.

MoU with Universitas Negeri Surabaya, Indonesia



Picture from l - r: Prof. Dr. Somrerk Chandra-ambhorn (3rd), KMUTNB's Vice President for Research and Information Technology Development, Assoc. Prof. Dr. Smith Songpiriyakij (4th), Dean of College of Industrial Technology, and Assoc. Prof. Dr. Rattanakorn Phadungthin (5th), Associate Dean for Lifelong Learning Development.

On 8 February 2022, at the meeting room of the college of Industrial Technology, KMUTNB, Prof. Dr. Somrerk Chandra-ambhorn, KMUTNB's Vice President for Research and Information Technology Development, Assoc. Prof. Dr. Smith Songpiriyakij, Dean of College of Industrial Technology (CIT) and CIT administrative team attended the Virtual MOU signing ceremony between KMUTNB and Universitas Negeri Surabaya, Indonesia. Prof. Dr. Nurhasan M. Kes, Rector of Universitas Negeri Surabaya, also virtually attended and signed the MoU.

Academic Cooperation

MoU with Microsoft (Thailand) Ltd.



Picture: from l-r: Assoc. Prof. Dr. Chatchan Thongjub (1st), Director of Institute for Technical Education Development, Asst. Prof. Dr. Nawaporn Wisitpongphan (2nd), Assistant to President for Research and Information Technology Development, Prof. Dr. Somrerk Chandra-ambhorn (3rd), Mr. Dhanawat Suthumpun (4th) and other delegates from Microsoft Thailand.

On 23 March 2022, KMUTNB and Microsoft (Thailand) Ltd. entered into an MOU. The ceremony was co-presided by Prof. Dr. Somrerk Chandra-ambhorn, KMUTNB's Vice President for Research and Information Technology Development, and Mr. Dhanawat Suthumpun, Managing Director of Microsoft Thailand, with the presence of distinguished delegates from both sides. KMUTNB and Microsoft Thailand will work in partnership to manage digital transition and empowering digital transformation in higher education.

Welcome Bhutanese students, Bhutan



Engineering in different fields, such as Mechanical Engineering, Aerospace Engineering, Electrical Engineering, Robotic Engineering and Automatic System. Once the students arrived to the campus, they are warmly welcomed by Assoc. Prof. Dr. Udomkiat Nontakaew, Dean of Faculty of Engineering, Asst. Prof. Dr. Tanaporn Rojhirunsakool, Director of Center for International Engineering Programs.

In 2022, to mark the cordial ties and close friendship between the Kingdom of Bhutan and Thailand, King Mongkut's University's of Technology North Bangkok has granted a full tuition waiver and provided accommodations for the Bhutanese students selected by Youth Welfare and Education Office, His Majesty's Secretariat. 6 Bhutanese students are studying at the Faculty of

Virtual Meeting with Ilmenau University of Technology, Germany



On 2 February 2022, the virtual meeting to explore the potential areas for academic collaborations between TU Ilmenau and KMUTNB was held. The delegates of TU Ilmenau included Prof. Dr. habil. Anja Anja Geigenmüller, Vice President for Teaching and Learning, Prof. Dr. -Ing. Jens Müller, Vice President for International Affairs, while the KMUTNB's side was led by Ms. Sikan Kulchonchan, Vice President for International Affairs and Prof. Dr. Saowanit Sukparungsee, Vice President for Academic Affairs. The faculty members of the Department of Mathematics and Applied Statistics, the Faculty of Applied Science, also joined discussion of this meeting. The outcomes of the meeting were productive and fruitful.

Academic Cooperation

Virtual KMUTNB-Kyutech Committee Meeting



On 18 March 2022, the 2nd liaison committee meeting between King Mongkut's University of Technology North Bangkok (KMUTNB) and Kyushu Institute of Technology (KYUTECH) was held online. The meeting was co-chaired by Prof. Yasunori Mitani, Executive Vice President for International, Research, Facility management, General Affairs. Moreover, the meeting was attended by delegates from the Kyutech side, including Prof. Dr. Masaki Fuchiwaki, Co-Director, of the KMUTNB-KYUTECH Collaboration Satellite Office, Prof. Tohru Kamiya, Vice Executive Director for International Affairs, Mr. Toshiro Wakabayshi, Director of International Affairs Division. The

KMUTNB representatives consisted of Ms. Sikan Kulchonchan, Vice President for International Affairs, a co-chair of the meeting, Assoc. Prof. Dr. Udomkiat Nontakaew, Dean of Faculty of Engineering, Asst. Prof. Dr. Tanaporn Rojhirunsakool, Director of Center for International Engineering Programs, Dr. Phongsathorn Saisujarit, Acting Director of International Institute of Space Technology for Economic Development and other attendees who were involved in the KMUTNB- KYUTECH cooperation. The committee monitored the progress of the ongoing cooperative projects between the two universities and also evaluated the outcomes of the cooperative projects in the past year which were carried out in different fields such as Robotics, AI, Space, CMP, and Fluid Dynamics. During the past year, both universities has accomplished to implement several collaborations, such as the student exchange program, joint research activity and block lectures. Also, the committee discussed the plan and strategy to develop the existing cooperation during 2022 – 2023. The cooperation between both universities have been expanded gradually and continued flourishing through time which reflects the mutual trust and close partnership.

International Workshop on Hybrid Composites for Railway Applications

On 18 February 2022, King Mongkut's University of Technology North Bangkok (KMUTNB) organized the international workshop entitled "Hybrid Composites for Railway Applications." The objective of this workshop was to explore new and recent advances in hybrid composite materials for railway applications. The workshop began with opening remarks by Prof. Dr.-Ing. habil. Suchart Siengchin, KMUTNB President.



Picture from l - r: Dr. Sanjay Mavinkere Rangappa (4th), the workshop's coordinator; Prof. Dr.-Ing. habil. Suchart Siengchin (5th), KMUTNB's President, together with other KMUTNB researchers who attended the workshop.

The keynote lectures were delivered by 4 professors from Izmir Katip Celebi University, Turkey, National Institute of Technology, India, University of Malaya, Malaysia, Opole University of Technology, Opole, Poland. This workshop was funded by National Science Research and Innovation Fund (NSRF), and was attended by 90 participants from different countries such as Bangladesh, India, Indonesia, Italy, Malaysia, Nigeria, Phillipines, Russia, Saudi Arabia, Spain, Poland, UK, and USA.

The DIES Training Course on “Management of Internationalization” 2022–2023

During March 2022 – March 2023, Ms. Phimvalanch Moosikaphan, Director of International Cooperation Centre, KMUTNB, has been selected to attend the DIES Training Course on “Management of Internationalization” 2022–2023, which has been organized by the collaboration of Leibniz University Hannover, the German Academic Exchange Service (DAAD), and the German Rectors’ Conference (HRK).

This training program is divided into a series of three workshops, which will be held at India and Germany. The key objective of the training course is to develop the competencies that enhance the performance of



university staff from selected countries of Africa, Latin America, and target of the project is representatives from 30 leading universities in charge of managing internationalization of higher education. The programme will enable the participants to build up more effective structures and procedures of internationalization at their home universities. Each participant will develop and work on a project that fits their position and institutional goals, so they can applied the project outcomes to increase the efficiency of their work.

Institut Teknologi Sepuluh Nopember (ITS), Indonesia

On 22 March 2022, Assoc. Prof. Dr. Pichet Sriyanyong, Dean of International College, was invited to represent KMUTNB and be a guest speaker on a topic of the change of teaching and learning into online education and the future of hybrid learning at the International Partnership Day which was virtually organized by Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Indonesia.



The theme of this virtual event was #StrongerTogether During the Pandemic: Collaboration Journey between ITS and Partners. KMUTNB is one of ITS academic partner and have carried out many collaborative activities together.

It was a global stage where ITS partner shared their experiences, strategies, and policies on operating their activities and to continue to build partnerships in the future amid the pandemic crisis.

Kyushu Institute of Technology, Japan

On 20 January 2022, Assoc. Prof. Dr. Panart Khajornrungruang from the Department of Intelligent and Control Systems, Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology,



Japan, delivered a special online lecture on “Optics (light) in Measurement” for 150 KMUTNB students of the Department of Mechanical and Aerospace Engineering and the Department of Production and Robotics Engineering, Faculty of Engineering, KMUTNB.

This is one among academic activities organized by the cooperation between KMUTNB and Kyutech.

Campus News

Coburg University of Applied Sciences, Germany



Picture from l - r of sitting row: Mr. Prompong Hakk (1st), Mr. Fabian Sauer (2nd), Ms. Sikan Kulchonchan (3rd), Mr. Ansgar Geibig (4th) and Assoc. Prof. Dr. Rattanakorn Phadungthin (1st from standing row), Associate Dean of College of Industrial Technology.

On 10 February 2022, Ms. Sikan Kulchonchan, Vice President for International Affairs, warmly welcomed Mr. Fabian Sauer, Mr. Ansgar Geibig, 2 internship students from Coburg University of Applied Sciences, Germany, and Mr. Prompong Hakk, the copartner of SHAKES BKK CO.,LTD. College of Industrial Technology has cooperated with SHAKES BKK CO.,LTD. to offer an internship program to 2 students during October 2021 to March 2022 in order to provide an opportunity for the students to improve skills necessary for their future careers.

Esslingen University of Applied Science, Germany



Picture from l - r: Assoc. Prof. Dr. Smith Songpiriyakij (5th), Dean of College of Industrial Technology, Assoc. Prof. Dr. Rattanakorn Phadungthin (6th), and the internship students.

Assoc. Prof. Dr. Smith Songpiriyakij, Dean of College of Industrial Technology (CIT), and Assoc. Prof. Dr. Rattanakorn Phadungthin, Associate Dean for Lifelong Learning Development, gave an orientation to the 7 students who passed an examination and interview, and were selected to participate the internship project offered by Esslingen University of Applied Science, Germany, during 1 April – 31 May 2022. This is one among cooperative activities since both universities entered into MoU since 2012.

KMUTNB Researcher Team won an International Prize for “FLIMPROTEXTOR”



The team of KMUTNB’s researchers won the gold medal at the “Special Edition 2022 Inventions Geneva Evaluation Days – Virtual Event for their invention: “FLIMPROTEXTOR.” The team members include Assoc. Prof. Dr. Rungsima Yeetsorn (1st from l-r), Sirindhorn International Thai-German Graduate School of Engineering (TGGGS), Assoc. Prof. Dr. Noppavan Chanunpanich (2nd from l-r) and Asst. Prof. Dr. Sunanta Chuayprakong (3rd from l-r) Faculty of Applied Science, KMUTNB.

The event was virtually organized between 16 – 20 March 2022, Switzerland.

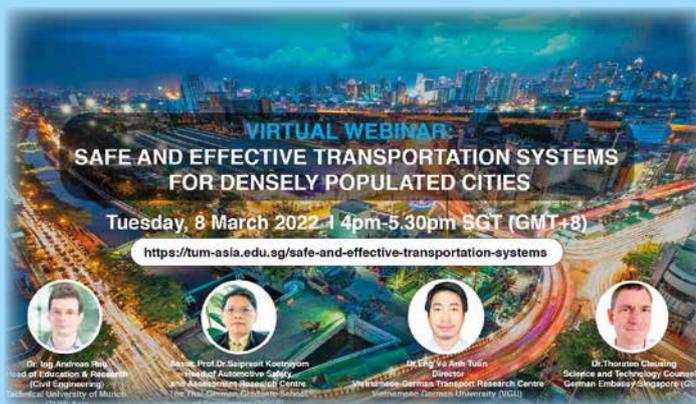
The German-Thai Railway Association (GTRA) Webinar



On 13 January 2022, Prof. Dr. -Ing. Nisai Fuengwarodsakul, Chairman of the German-Thai Railway Association (GTRA) and Dean of the Sirindhorn International Thai-German Graduate School of Engineering (TGGS), KMUTNB, was invited to be a keynote speaker at the German-Thai Railway Association (GTRA) Webinar. This Webinar was organized by the German-Thai

Chamber of Commerce (GTCC) to promote the association's objectives and activities, and to explore the possibility of collaborating on the development of Thai railway system. This association has been established in response to the Joint Declaration of Intent (JDI) between the Thai Ministry of Transport and the German Ministry of Transport and Digital Infrastructure on 3rd November 2016, with the goal of enhancing German-Thai rail networking and collaboration.

“Safe And Effective Transportation Systems For Densely Populated Cities” Webibar



On 8 March 2022, Assoc. Prof. Dr. Saiprasit Koetnuyom, Senior Lecturer of the Automotive Safety and Assessment Engineering (ASAE) program and Head of Automotive Safety and Assessment Research Center represented TGGS and be a keynote speaker on the topic “Improving Powered Two -Wheelers for safer and more efficient transportation in Thailand” at this webibar.

The three institutions following the German model of education in Southeast Asia: Technical University of Munich Asia (TUM Asia) in Singapore, the Sirindhorn International Thai-German

Graduate School of Engineering (TGGS) in Thailand, and The Vietnamese-German University (VGU) in Vietnam, synergized their academic strengths in the field of Transportation Systems and Road Safety hosting this virtual webinar with the topic “Safe And Effective Transportation Systems For Densely Populated Cities”.

The International Electrical Engineering Congress 2022



Prof. Dr. -Ing. Nisai Fuengwarodsakul, TGGS Dean.

Prof. Dr. -Ing. Nisai Fuengwarodsakul, Dean of the Sirindhorn International Thai-German Graduate School of Engineering (TGGS), King Mongkut's University of Technology North Bangkok (KMUTNB), was a keynote speaker on the topic “Battery management system: Technological overview” at the 2022 International Electrical Engineering Congress (iEECON2022).

The congress was organized by the Faculty of Engineering, Rajamangala University of Technology Isan, Khon Kaen Campus, the Faculty of Engineering, Chiang Mai University, and the Electrical Engineering Academic Association of Thailand (EEAAT) during 9-11 March 2022 at AVANI Khon Kaen Hotel & Convention Centre, Khon Kaen, Thailand.

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