King Mongkut's University of Technology North Bangkok

36th Anniversary Celebration
Thai-French Innovation Institute

“ 36 Years of Thai-French Innovation :
Towards a Low Carbon and Renewable Energy Future

23-26 June 2026

Message from the Ambassador of France to the Kingdom of Thailand

It is with great pleasure that I extend my warmest congratulations to the Thai-French Innovation Institute (TFII) of King Mongkut's University of Technology North Bangkok on the occasion of its 36th Anniversary Celebration.

This year's TFII anniversary is particularly meaningful since it coincides with the commemoration of 170 years of diplomatic relations between France and Thailand. For generations, our two countries have built a relationship founded on friendship, mutual respect, and a shared commitment to education, science, innovation, and cultural exchange. TFII stands as one of the most successful, enduring and visible examples of this partnership.

Since its establishment, the Institute has played an important role in promoting cooperation between French and Thai institutions in higher education, research, and industrial development. Through numerous academic exchanges, collaborative research projects, and industrial partnerships, TFII has helped strengthen ties between our countries while creating valuable opportunities for students, researchers, and professionals.

One of TFII's most valuable contributions has been the development of generations of KMUTNB graduates who continue to strengthen academic and research ties between France and Thailand. Through ongoing collaborations, joint research projects, and academic exchanges with French partner institutions, these alumni help ensure that the spirit of Franco-Thai cooperation continues to flourish and evolve.

France takes great pride in supporting initiatives that promote knowledge sharing and innovation. The achievements of TFII over the past 36 years demonstrate the remarkable results that can be achieved when institutions work together with a common purpose and long-term vision.

I am particularly encouraged by TFII's commitment to addressing the challenges of sustainable development. Its activities in renewable energy, advanced engineering, and smart industrial systems reflect priorities that are shared by both France and Thailand as we work toward a more sustainable and resilient future.

On behalf of the Embassy of France in Thailand, I would like to express my appreciation to the leaders, faculty members, researchers, staff, students, alumni, industrial partners, and stakeholders whose dedication has contributed to the Institute's continued success.

I am confident that TFII will continue to strengthen Franco-Thai cooperation, foster innovation, and serve as a bridge connecting our academic, scientific, and industrial communities, while helping prepare the next generation of talents and technologies that will shape our common future.

France remains proud to be part of this shared journey, and I wish the Thai-French Innovation Institute every success in the years ahead.

H.E. Mr. Jean-Claude Poimboeuf

Ambassador of France to the Kingdom of Thailand

Message from the Chairman of the KMUTNB Council

On behalf of the University Council of King Mongkut's University of Technology North Bangkok, I wish to extend my congratulations to the Thai-French Innovation Institute (TFII) on the occasion of its 36th Anniversary Celebration.

This anniversary represents far more than the passage of time. It reflects three and a half decades of commitment to academic excellence, technological advancement alongside international cooperation. Since its establishment, TFII has served as a remarkable example of how such long-term partnerships between nations, universities and industries can generate meaningful and lasting benefits for society.

Over the years, TFII has played a strategic role in strengthening KMUTNB's international engagement. Through its extensive collaborations with French universities, research institutions as well as industrial partners, the Institute has broadened opportunities for students, researchers and faculty members while enhancing the University's reputation as a leading institution of technology and innovation.

The University Council particularly values TFII's contribution to national development. By connecting education, applied research and industrial innovation, the Institute has helped strengthen Thailand's technological capabilities and supported the development of highly-skilled professionals, specifically in fields that are vital to the country's future competitiveness.

The establishment of the TFII–Schneider Electric Center of Excellence and the Center of Excellence in Electrochemistry and Corrosion Technology has demonstrated TFII's forward looking vision. These initiatives exemplify the type of strategic investment that will help prepare future generations for emerging challenges in clean energy, intelligent systems and sustainable industry.

The theme of this year's celebration, "Toward a Low Carbon and Renewable Energy Future," is both timely and inspiring. It reflects TFII's commitment to addressing global challenges while creating practical solutions that benefit industry, society and the environment alike. Definitely, the University Council fully supports this direction and encourages the Institute to continue serving as a catalyst for innovation and sustainable development.

Last but not least, I would like to express my sincere appreciation and acknowledgement to our French and Thai partners, as well as to the administrators, faculty members, researchers, students, alumni and staff whose dedication has contributed to TFII's success. May TFII continue to flourish as a model of international partnership, academic excellence, and service to society for many years to come.

Prof. Dr. Teravuti Boonyasopon

Chairman of KMUTNB Council

Message from the KMUTNB President

It is with great pleasure and pride that I extend my warmest congratulations on the occasion of the 36th Anniversary Celebration of the Thai-French Innovation Institute (TFII), King Mongkut's University of Technology North Bangkok.

TFII has played a vital role as one of the University's most important international institutions, serving as a bridge connecting academic knowledge, industrial innovation, and global cooperation between Thailand and France. Through more than three decades of continuous development, the Institute has significantly contributed to the advancement of engineering education, applied research, industrial services, and human resource development for Thailand and the region.

TFII has continuously strengthened collaboration across faculties, colleges, research centers, and academic departments within KMUTNB. Through interdisciplinary cooperation in education, research, industrial training, and innovation development, the Institute has enhanced the University's capabilities in strategic fields such as welding technology, electrical and energy engineering, corrosion engineering, and smart manufacturing systems in industry.

The close collaboration between TFII and various academic units within the University has created valuable opportunities for students, researchers, and faculty members to engage in international research projects, advanced industrial training, joint laboratories, and technology transfer activities with leading French universities, research institutions, and industrial organizations. These partnerships have greatly strengthened KMUTNB's international academic reputation and expanded its role as a leading technological university in the region.

In addition to its academic mission, TFII has continuously supported Thailand's industrial transformation through professional training, testing and calibration services, industrial consultancy, applied research, and workforce development programs that respond directly to the needs of modern industries and future technologies.

The long-standing partnerships with distinguished organizations such as Schneider Electric, Air Liquide, Institut de Soudure, and Université de Lorraine reflect the enduring success of Thai-French cooperation in higher education, science, technology, and industrial innovation. The recent establishment of the TFII–Schneider Electric Center of Excellence and the Center of Excellence in Electrochemistry and Corrosion Technology further demonstrates the Institute's strong commitment to future industries, clean energy technologies, smart systems, and sustainable development.

The theme of this year's celebration, "36 Years of Thai-French Innovation: Toward a Low Carbon and Renewable Energy Future," clearly reflects TFII's vision to support global sustainability and technological transformation through innovation, research, and international collaboration.

On behalf of King Mongkut's University of Technology North Bangkok, I would like to express my sincere appreciation to the Embassy of France in Thailand, French partner universities, industrial organizations, faculty members, researchers, students, alumni, and all stakeholders whose dedication and support have contributed greatly to the continued success and international recognition of TFII. I firmly believe that TFII will continue to serve as a leading platform for international cooperation, innovation-driven education, advanced industrial technology, and sustainable human resource development for future generations.

May the Thai-French Innovation Institute continue to prosper and achieve even greater success in the years ahead.

Prof. Dr. Thanin Silpcharu

KMUTNB President

Message from TFII Director

On the occasion of the 36th Anniversary Celebration of the Thai-French Innovation Institute (TFII), I would like to express my deepest gratitude to everyone who has contributed to the Institute's remarkable journey over the past 36 years.

This anniversary is a meaningful opportunity to reflect on how far TFII has come. What began as a vision of Thai-French cooperation has evolved into a vibrant institution that supports education, research, industrial development, and international collaboration. The achievements we celebrate today are the result of the dedication, hard work, and commitment of countless individuals who have believed in the Institute's mission.

I would like to pay special tribute to the former leaders of TFII and KMUTNB whose vision and determination laid the foundation for our success. Their efforts established a culture of excellence and international partnership that continues to guide our work today.

I am equally grateful to our partner universities, research institutions, government agencies, and industrial organizations in Thailand and France. Their trust, cooperation, and shared commitment have enabled TFII to expand its impact through educational programs, applied research projects, industrial services, technology transfer initiatives, and professional development activities.

I am especially proud of the many TFII alumni who continue to engage with our French partner universities through research collaborations, academic exchanges, and professional networks. Their continued involvement reflects the lasting impact of TFII's mission and serves as a strong foundation for future cooperation between Thailand and France.

Most importantly, I would like to thank all current and former TFII personnel. I have had the privilege of witnessing the passion, professionalism, and teamwork that define our organization. Every achievement of the Institute reflects the collective efforts of dedicated colleagues who continually strive to serve students, industry, and society.

The theme of this year's celebration, "36 Years of Thai-French Innovation: Toward a Low Carbon and Renewable Energy Future," highlights both our accomplishments and our aspirations. As industries around the world undergo rapid transformation, TFII remains committed to supporting sustainable technologies, renewable energy solutions, smart industrial systems, and the development of future-ready talent.

Looking ahead, we will continue strengthening international partnerships, advancing applied research, and fostering innovation that creates tangible value for industry and society. We remain committed to serving KMUTNB and Thailand while contributing to a more sustainable and technologically advanced future.

On behalf of the Thai-French Innovation Institute, thank you to everyone who has been part of this journey. Together, we will continue building the next chapter of TFII's success.

Asst. Prof. Dr. Pornsak Srisungsitthisunti

TFII Director

Former Director of Thai-French Innovation Institute

Prof. Dr. Teravuti Boonyasopon, Chairman of KMUTNB council who has served 4 non-consecutive terms in office (2001-2007, and 2009 to present) took up his role as the first Director of Thai-French Innovation Institute in (1990). In 1989, as Dean under the Faculty of Technical Education during the term of former President Assoc. Professor Dr. Chana Kasipar, Professor Boonyasopon was the pioneer in the initiation and coordination with French industries for the establishment of Thai-French Innovation Center (TFIC), which currently being upgraded to the Thai-French innovation institute (TFII).

During his first term as Dean of Faculty of Technical Education in 1989, Professor Boonyasopon encouraged the coordination with industry sectors in France, particularly Mrs. Hélène Farny, Air Liquide's Director for equipment activities, together with the French Embassy in Bangkok. The main objective highlighted the continuous growth and development in instructional activities, development and improvement of research activities across academia and enterprise boundaries. The institution has been practical and serviceable for arranging training sessions offered to engineers, technicians and technologists from notable Thai and French companies.

The foundation stone of TFII was laid in 1990 by HRH Princess Maha Chakri Sirindhorn. The construction budget was supported by the Thai Government under the economic and academic collaboration agreement. Two years later, HRH the Princess also presided over the official opening of the Institute and visited an exhibition of modern machinery and equipment manufactured by French companies, which was handed over by the French government. Total combined value of the equipment was 140 million baht at that time.

Up till now, the institution has become a "Center of Excellence" aiming at an efficient transfer of know-how and technology to national and international communities of academic institutions and industry-related companies. Technology dissemination and transfer has been carried out in diverse fields, some of which feature automated production systems, welding technology, corrosive technology, electrical and electronics technology, renewable energy, metrology and CAD / CAM technology. In the Name of the first Director of TFII and current Chairman of KMUTNB University Council, I take great pride in the work and accomplishments of this cooperative endeavor.

I wish here to express my heartfelt thanks to the French Government, the French industrial groups, faculty, staff members, alumni and regional initiative coordinator Mr. Arnauld De Nadaillac, Dr. Jean-Pierre Delsol and Dr. Mickaël Chauvin. I appreciate your extreme support and collaboration to the enhancement of quality of our education and research progress in science and technology, enabling these facets to reach the international community's recognition and standards.

Asst. Prof. Dr. Panarit Sethakul, served as Director of Thai-French Innovation Institute (TFII) from 1996 to 2014. He holds a Ph.D. degree in Electrical Engineering from Université de Lorraine. “I feel incredibly honored to have participated in the operation of cooperation activities carried out under cooperative agreements between the two countries,” said Dr. Sethakul. Taking into account a bird’s eye view of the whole environment from different angles under PESTEL framework analysis (political, economic, social, technological, environmental and legal constituents), the two nations somewhat differ in many aspects, predominantly in terms of social, educational and technological features.

A key to success in promoting cooperation arose from reducing these gaps to ensure the continuity of international cooperation activities. A few examples of implementation of operations during his term encompass:

1. Human resource development through exchanges of academic staff and researchers at doctoral and post-doctoral levels. The operational processes and procedures with UL have been carried out since 2003.

2. Joint initiatives to support academic and research progression incorporating the establishment of The Renewable Energy Research Center (RERC) in 2006; the launch of a dual degree program, Ph.D. in Electrical and Energy with UL in 2015; along with collaborative research and training networks with IS, Schneider Thailand and INS.

3. Scholarly collaboration in academic works and formal dissemination of research outputs and research productivity. To operate in a more sustainable manner, the procedures and practices need to be realized through mutual consent, acknowledgement and understanding of the cooperation framework between both parties.

Asst. Prof. Dr. Wattana Kaewmanee, Former Director of Thai-French Innovation Institute (2014–2023). Throughout the past 36 years, I have been closely associated with TFII in many capacities—from a university student benefiting from its academic services, to a scholarship recipient for training in France, a doctoral scholarship holder under Thai-French cooperation programs, a faculty member, researcher, project leader, and ultimately director of TFII.

These experiences have allowed me to witness firsthand the remarkable growth and transformation of the Institute. TFII has continuously served as a vital bridge connecting Thailand and France through education, research, technology transfer, and industrial collaboration. Its success has been built upon the vision, dedication, and commitment of generations of executives, faculty members, researchers, staff, students, and partners from both countries.

During my tenure as Director from 2014 to 2022, I had the privilege of working alongside many talented colleagues and partners who shared a common goal of strengthening the Institute's role in supporting technological advancement, industrial development, and international cooperation. Together, we expanded academic and industrial collaborations, enhanced research capabilities, and reinforced TFII's position as a center of excellence within KMUTNB and the broader industrial community.

On the occasion of TFII's 36th Anniversary, I would like to express my sincere gratitude to all former and current administrators of KMUTNB and TFII, our French and Thai partners, faculty members, researchers, staff, students, alumni, and industrial collaborators whose contributions have shaped the Institute's achievements over the years.

French Coordinators

Mrs. Helene Farny, who played an important role in TFIC founding: In 1989, Mrs. Helene Farny served as International Director for Equipment Activities of the Air Liquide Group, France. She also held a position as French foreign trade advisor, Secretary General and Board Administrator of France DIDAC Association. Mrs. Farny was responsible for organizing a number of conferences and exhibitions on equipment for science and technology education. The events were carried out by French companies in association with national academic and industrial sectors. Subsequently, Mrs. Farny was assigned as representative of the Air Liquide Group, France DIDAC and La Fédération des Industries Mécaniques (FIM) for assessment of Thailand's higher education institutions with regard to organizational readiness for technology transfer from France. In the meantime, King Mongkut's University of Technology North Bangkok was selected as a result of its high level of technology readiness and highly skilled personnel.

Dr. Jean-Pierre Delsol, French, served as French expert from September 1, 2001 to December 1, 2005. His activities undertakenare as follows:

1. Setting up a calibration laboratory in collaboration with le Centre Technique des Industries Mécaniques (CETIM) of France
2. MDICP / ITB / Asia Link / SEAMEO / PFIEV
3. Atmospheric / CR, in collaboration with Thainox Steel
4. Memorandum of Understanding carried out with INP-Toulouse for supporting Ph.D. studies in Agro- Industry, Information Technology and Corrosion disciplines
5. Welding Technology Department approved by the Welding Institute of Thailand for conducting international welding courses
6. Welding Institute of Thailand, approved as a member of the International Institute of Welding

In addition, Dr. Jean-Pierre Delsol fostered professional and career development for TFII staff members through a range of opportunities embracing further education, visit and training sessions in France.

Mr. Arnauld De Nadaillac, was the first French expert appointed by the French Ministry of Foreign Affairs from April 30, 1996 to August 31, 2001. Engaged in novel initiatives, he coordinated collaboration with industry and academia of France for promoting KMUTNB's academic and research endeavors. Effective training sessions were conducted for numerous local, regional and international public and private organizations. In addition, Memorandums of Understanding were carried out with the following organizations:

1. Université de Lorraine, with the Department of Electrical and Electronic Technology
2. INP Grenoble, with the Department of Automated Manufacturing System
3. IS, with the Department of Welding Technology
4. Thainox Steel for the establishment of Corrosion Laboratory

Mr. De Nadaillac initiated multiple initiatives comprising Franco-Thai cooperation program in higher education and joint research; continuing vocational education program; conducting training courses to those in the Indochina region comprising Cambodia, Laos and Vietnam. Through promising Thai and French partnership, the practices and lessons further enhanced sustainable development in academic and professional organizations.

Dr. Mickaël Chauvin, the appointed expert whose term started from December 2, 2005 to December 31, 2014. After the successful implementation of the project's first and second phases, subsequent operations were carried on as follows:

1. Develop and establish strong partnerships with French companies in particular Valeo, Schneider, INS, IS and an agreement for academic cooperation with Université de Lorraine and ITT.
2. Promotion of further education at the doctoral level: École nationale supérieure d'arts et métiers (ENSAM), and INP-Toulouse
3. Grants for KMUTNB research staff to carry out research projects at Université de Lorraine, INP Grenoble, INP Toulouse and ENSAM
4. TFIC Excellence Scholarship Program, a development project supporting KMUTNB candidates who undertake their doctoral studies. The mission was operated with the French Embassy in Bangkok.
5. Scholarship opportunities for TFII staff development: visit, training and conducting research at GREEN, CETIM, ITT
6. Organizing the 2006 and 2010 International Welding Congress and 7. Operating GMS project

Activities of the French Embassy in Bangkok with TFII

TFIC Executive Board constituting representatives from the government and industrial sectors from France and Thailand. French Ambassador to Thailand and KMUTNB President serve as Co-Chairs who give advice, direct and coordinate TFII's operations and activities, ensuring full compliance with institutional goals and objectives. Ordinarily, the annual Board meeting is held once a year.

H.E. Gerard COSTE (front row, 5th from left), Founder and Co-Chairman of TFIC Executive Board until 1999. The first meeting was held on July 9, 1996.

H.E. Christian PRETRE (front row, 6th from left), Co-Chairman of TFIC Executive Board from 2000 to 2002.

H.E. Laurent AUBLIN (sitting 3rd from left), Co-Chairman of TFIC Executive Board from 2003 to 2005.

H.E. Laurent BILI (front row, 5th from left), Co-Chairman of TFIC Executive Board from 2007 to 2009.

Dr. Moncef Meddeb, Attaché for Scientific and University Affairs (sitting 4th from left), representative of H.E. Gildas Le LIDEC in 2011.

Ambassador of France to Thailand, H.E. Mr.Jean-Claude Poimbœuf, Opening ceremony of the TFII-Schneider Electric COE

Ambassador of France to Thailand, H.E. Mr.Jean-Claude Poimbœuf, Opening ceremony of the ICOME2024

(KMUTNB and TFII collaboration with French's University)

A list of KMUTNB faculty members who obtained their university degree in France

No.	Name	Faculty	French University
1	Assoc. Prof. Dr. Somsak Akatimagool	Faculty of Technical Education	SUPAERO, Toulouse
2	Prof. Dr. Phatiphat Thounthong	Faculty of Technical Education	Université de Lorraine
3	Assoc. Prof. Dr. Panarit Sethakul	Faculty of Technical Education	Université de Lorraine
4	Asst. Prof. Dr. Charun Sanrach	Faculty of Technical Education	Université de Lorraine
5	Asst. Prof. Dr. Panee Noiying	Faculty of Technical Education	Université de Lorraine
6	Asst. Prof. Dr. Wattana Kaewmanee	Faculty of Technical Education	Université de Lorraine
7	Prof. Dr. Matheepot Phattanasak	Faculty of Technical Education	Université de Lorraine
8	Assoc. Prof. Dr. Udomkiat Nontakaew	Faculty of Engineering	Université de Poitiers
9	Asst. Prof. Dr. Nattawut Janthong	Faculty of Engineering	Université de Grenoble
10	Assoc. Prof. Dr. Thanakom Sootornchainacksaeng	Faculty of Engineering	LINSAT
11	Assoc. Prof. Dr. Somrerk Chandra-ambhon	Faculty of Engineering	Université de Grenoble
12	Asst. Prof. Dr. Piyorose Promdirek	Faculty of Engineering	Université de Grenoble
13	Assoc. Prof. Dr. Thanu Chouychai	Faculty of Engineering	ISMCM
14	Assoc. Prof. Chainarong Srikulwong	Faculty of Engineering	Ecole des Mines de Paris
15	Assoc. Prof. Dr. Pisit Liutanakul	Faculty of Engineering	Université de Lorraine
16	Asst. Prof. Dr. Viboon Lertwimolnun	Faculty of Engineering	Ecole des Mines de Paris
17	Asst. Prof. Sithiporn Kerdsum-ang	Faculty of Engineering	SUPAERO, Toulouse
18	Asst. Prof. Dr. Kusol Pimapunsri	Faculty of Engineering	Université de Grenoble
19	Prof. Dr. Somrat Kerdsuwan	Faculty of Engineering	Université de Poitiers
20	Asst. Prof. Dr. Thanasak Nilsonthi	Faculty of Engineering	Université de Grenoble
21	Asst. Prof. Dr. Pongsak Nimdum	Faculty of Engineering	Ecole des Mines de Paris
22	Asst. Prof. Dr. Ekkarin Phongphinittana	Faculty of Engineering	Ecole des Mines de Paris
23	Assoc. Prof. Dr. Santi Chuetor	Faculty of Engineering	Montpellier Supagro
24	Asst. Prof. Dr. Wanwitoo Wanmolee	Faculty of Engineering	Institut de recherches sur la catalyse et l'environnement
25	Assoc. Prof. Udom Jeenpradab	College of Industrial Technology	INP Toulouse
26	Assoc. Prof. Dr. Choopan Rattanapoka	College of Industrial Technology	Université de Strasbourg
27	Asst. Prof. Dr. Peeteenut Triwong	College of Industrial Technology	Université de Grenoble
28	Asst. Prof. Dr. Kanokporn Sripathomsawat	College of Industrial Technology	Université de Grenoble
29	Asst. Prof. Dr. Suphot Chunwiphate	College of Industrial Technology	Université de Grenoble
30	Asst. Prof. Dr. Nuttapol Prayongpun	College of Industrial Technology	Université de Grenoble
31	Asst. Prof. Dr. Siriwan Boripatgosol	College of Industrial Technology	ENSAM
32	Assoc. Prof. Dr. Nathapong Sukhawipat	College of Industrial Technology	Université du Mans
33	Assoc. Prof. Dr. Pawinee Boonyasopon	Faculty of Architecture and Design	Université de Grenoble
34	Assoc. Prof. Dr. Sunee Eadmusik	Faculty of Agro-Industry	Université de Grenoble
35	Assoc. Prof. Dr. Pongpol Juntharee	Faculty of Applied Science	Montpellier II University
36	Asst. Prof. Dr. Anusara Srisrual	Faculty of Applied Science	Université de Grenoble
37	Assoc. Prof. Dr. Pongpisit Wuttidittachotti	Faculty of Information Technology	Université de Grenoble
38	Dr. Nakarin Srisuwan	Thai-French Innovation Institute	Université de Grenoble
39	Dr. Burin Yodwong	Thai-French Innovation Institute	Université de Lorraine

36th Anniversary Thai-French Innovation Institute

1. The Establishment of the Thai-French Innovation Institute (TFII)

The Thai-French Innovation Institute (TFII) was established as a supporting administrative unit of King Mongkut's University of Technology North Bangkok (KMUTNB). Its principal objective was to enhance human resource development in support of Thailand's industrial advancement. At the same time, France recognized the long-term benefits of disseminating modern technology and industrial expertise to developing countries through academic and industrial collaboration, thereby strengthening bilateral cooperation in science and technology between Thailand and France.

To realize this objective, three major academic cooperation agreements were signed between representatives of the Thai and French governments.

The first agreement was signed on October 13, 1991, in Bangkok by the Finance Ministers of Thailand and France. The agreement provided financial and technical assistance to Thailand without charge. The project implementation was conducted through the Department of Technical and Economic Cooperation of Thailand and Le Crédit National of France.

The second agreement was signed by representatives of the Thai and French governments on December 18, 1991, in Paris and subsequently reaffirmed on January 3, 1992, in Bangkok. This agreement officially endorsed the implementation of the project.

The third agreement was signed on October 29, 1991, in Paris between King Mongkut's University of Technology North Bangkok and the French Chamber of Commerce for the establishment of the Thai-French Innovation Center (TFIC), which was later elevated to the Thai-French Innovation Institute (TFII).

During the first three years of the project, the establishment of TFIC was supported by Le Groupe Air Liquide, the Fédération des Industries Mécaniques, and France DIDAC. The assistance, valued at approximately 140 million baht, was provided in the form of advanced machinery and equipment in the fields of welding, automation, simulation, energy systems, aeronautics, electronics, and computer technology.

In addition, various scholarships and training opportunities were granted, including scholarships for faculty members, study visits for university administrators, scholarships in Aerospace Engineering, and short-term training programs in automation, welding and testing, electrical engineering, electronics, and computer science.

Under the terms of the cooperative agreement, the Thai government was responsible for recruiting support personnel and allocating a budget of 34 million baht for the construction of an eight-story building on an area of 3,200 square meters to house the Thai-French Innovation Center (TFIC).

A historic milestone for King Mongkut's University of Technology North Bangkok occurred on October 2, 1990, when Her Royal Highness Princess Maha Chakri Sirindhorn graciously presided over the foundation stone laying ceremony of the Thai-French Innovation Institute.

Two years later, on June 5, 1992, Her Royal Highness graciously presided over the official opening ceremony of the Institute and visited an exhibition of modern machinery and equipment manufactured by French companies and donated by the French government under the academic cooperation agreements.

Once again, on October 22, 2010, Her Royal Highness Princess Maha Chakri Sirindhorn graciously visited KMUTNB to preside over the technological innovation exhibition organized by TFII in celebration of the Institute's 20th Anniversary.

On December 26, 2007, the Act establishing King Mongkut's University of Technology North Bangkok was published in the Royal Gazette of Thailand, Volume 124, Section 98 Kor. Subsequently, the University Council issued an announcement on February 13, 2008, regarding the organizational structure of the University, including the establishment of faculties, colleges, institutes, and centers.

As a result, the Thai-French Innovation Center (TFIC) was officially elevated to the status of the Thai-French Innovation Institute (TFII), with an administrative status equivalent to that of a university faculty. The announcement was published in the Royal Gazette, Volume 125, Special Section 68 Ngor, Page 21, dated April 4, 2008.

2. Objectives for TFII establishment:

TFII was established under Thai-French cooperation with the aim of providing integrated services encompassing instruction, research conduct, training, calibration and testing as well as giving consultation. The core mission areas are as follows:

1. To be the center for actual practice and advanced technology research activities for KMUTNB's students and faculty.
2. To be training center for technicians, engineers, technical teachers and students from various institution form national public and private sectors as well as from Southeast Asian nations.
3. To be the center promoting modern French machinery and equipment as well as being the focal point for technology transfer via training, demonstration, and research activities.
4. To be a center for technical consultancy for industrial enterprises.

3. Founder Agencies from Private French Organizations:

Owing to the assistance of 3 based organizations, i.e. L'Air Liquide Group, la Federation des Industries Mécaniques and France DIDAC, the formation of Thai-French Innovation Institute has become successful through the support of these French companies:

1. L'AIR LIQUIDE GROUP	2. INSTITUT DE SOUDURE
3. CETIM	4. MECAFORM
5. AFMA ROBOTS	6. LOG'IN
7. MULTISOFT ROBOTIQUE	8. NUM
9. REALMECA	10. SERETE
11. CORYS	12. EDF-GDF
13. F.I.A.S	14. MERLIN GERIN
15. MENTOR SCIENCES	16. ARDEMI

17. THOMSON CONSUMER ELECTRONICS
18. THOMSON CSF COOPERATION
19. TELEMECANIQUE (Schneider Electric Ltd.)

4. TFII's Department and Center of Excellence

Since the release of the initial phase, significant assistance in the form of equipment, machinery and experts from the French government and industries have been provided to TFII and each department.

4.1 Welding Technology Department (WD)

Since the initial phase of the Thai-French Innovation Institute (TFII), substantial support in the form of advanced machinery, equipment, technical expertise, and specialist training has been provided by the French government and French industries to TFII and its departments.

The Welding Technology Department received significant support from the L'Air Liquide Group, particularly in the provision of advanced welding machinery and equipment, including automatic welding systems and plasma cutting machines. Additional support was allocated for staff development, professional training, and technology transfer activities. Through close collaboration with experts from the Institut de Soudure (The French Welding Institute), the department has played an important role in transferring modern welding technologies to Thai industries and in producing highly qualified technologists and engineers for the manufacturing and industrial sectors.

In 2001, the Welding Technology Department was officially approved by the Welding Institute of Thailand (WIT) as an Authorized Training Body (ATB) under the regulations of the International Institute of Welding (IIW), one of the world's leading international organizations in welding science and technology, comprising member countries from around the globe.

The department offers internationally recognized education and certification programs, including:

International Welding Engineer (IWE)
International Welding Technologist (IWT)
International Welding Specialist (IWS)
International Welding Practitioner (IWP)
International Welding Inspection Personnel (IWIP)
International Welder (IW)

In addition, the department provides specialized training programs in Non-Destructive Testing (NDT), including Ultrasonic Testing (UT) in accordance with ISO 9712 standards. Comprehensive industrial services are also available, including testing, calibration, inspection, consultancy, qualification, and certification services for industrial clients.

In 2009, the Welding Technology Department signed a cooperative agreement with IS Industrie (Thailand) Ltd. to strengthen collaboration in industrial technology services, including professional training, inspection, testing, and research and development activities.

Today, the Welding Technology Department continues to serve as one of Thailand's leading centers of excellence in welding engineering, inspection technology, and industrial personnel development. Through continuous collaboration with international organizations and industrial partners, the department remains committed to advancing welding technology, supporting industrial innovation, and strengthening Thailand's manufacturing competitiveness in the global industry.

4.2 Corrosion Technology Department (CR)

The Corrosion Technology Department received substantial support from UGINE Steel Company and Thainox Stainless Public Company Limited for the establishment of a specialized laboratory dedicated to corrosion research utilizing advanced electrochemical techniques. In addition, numerous scholarships and academic support programs were provided for professional training, graduate studies, and international human resource exchanges.

The department established strong academic and research collaborations with leading French institutions, including the Institut National Polytechnique de Toulouse (INP Toulouse) and the Institut National Polytechnique de Grenoble (INP Grenoble), significantly strengthening TFII's capabilities in corrosion science and electrochemical engineering.

In 2006, the department, in collaboration with PTT Exploration and Production Public Company Limited (PTTEP) and TOTAL E&P Thailand, signed a Memorandum of Understanding (MOU) to establish Thailand's first corrosion inhibitor testing laboratory for the oil and gas industry. The laboratory was created to support corrosion prevention and integrity management for petroleum production systems and has since become one of the country's leading facilities for corrosion inhibitor evaluation and advanced electrochemical testing.

The laboratory supports both industrial services and advanced research activities in corrosion technology, electrochemistry, and materials degradation analysis. The department specializes in corrosion inspection, failure analysis, corrosion mitigation, and materials performance assessment for industries including oil and gas, petrochemicals, power generation, metal packaging, infrastructure, and manufacturing.

In addition to research and laboratory services, the department regularly provides professional consultancy, industrial training, technical seminars, and testing services to both public and private organizations. TFII has also expanded international cooperation in corrosion technology through joint research and testing activities with the Institute for Tropical Technology (ITT), Vietnam, and other regional and international research partners.

Today, the Corrosion Technology Department is recognized as one of Thailand's leading centers of excellence in corrosion engineering and electrochemical technology. Through continuous collaboration with industry and international academic institutions, the department remains committed to advancing research, supporting industrial sustainability, and strengthening technological innovation in materials durability and asset integrity management.

4.3 Electrical and Energy Technology Department (EN)

The Electrical and Energy Technology Department was established with support from Électricité de France (EDF) and Ecodime for the development of a power station simulation laboratory and advanced electrical drive training systems. The department received support in the form of training equipment, instructional materials, technical expertise, and research collaboration to strengthen education and technological development in electrical and energy engineering.

The department has established long-standing academic and research collaborations with Université de Lorraine and the École Nationale Supérieure d'Électricité et de Mécanique (ENSEM), France, particularly in graduate research studies and advanced engineering research. In addition, cooperation with the Groupe de Recherche en Électrotechnique et Électronique de Nancy (GREEN Laboratory) led to the establishment of advanced energy laboratories dedicated to research, development, and deployment of renewable energy technologies, energy efficiency systems, and energy conservation solutions.

Through these collaborations, the department has contributed significantly to research and innovation in electrical engineering, power electronics, renewable energy systems, smart grids, electric drives, and energy management technologies. Numerous research papers and scholarly works have been published and presented at national and international conferences, strengthening TFII's academic reputation and international research network.

In addition to academic and research activities, the department provides professional consultancy and technical services to various industries. Its expertise includes troubleshooting electric motor and drive systems, energy efficiency improvement, power quality analysis, energy management, and implementation of energy-saving measures for industrial facilities.

In collaboration with Schneider Electric Thailand, the department has also developed specialized industrial training programs in modern electrical and energy technologies, including photovoltaic system design and rooftop solar installation, smart energy management systems, industrial automation, and sustainable energy solutions.

Today, the Electrical and Energy Technology Department continues to play a strategic role in supporting Thailand's transition toward sustainable energy development, smart electrical systems, and low-carbon industrial technologies through education, research, innovation, and industrial collaboration.

4.4 Automated Manufacturing Systems Department (AD)

The Automated Manufacturing Systems Department has received strong support from Schneider Electric (Thailand) in the establishment and development of advanced laboratories, personnel training programs, and staff development initiatives. Through close collaboration with Schneider Electric (Thailand), the department successfully established the Programmable Logic Controller (PLC) Laboratory, the Computerized Numerical Control (CNC) Laboratory, and the Automated Manufacturing and Energy Conservation Laboratory.

These laboratories have played an important role in providing academic services, industrial training, technology transfer, and long-term workforce development for both educational institutions and industrial sectors. The department continues to support industry through professional training, consultancy services, industrial automation solutions, and competency development programs in areas related to Industry 4.0, smart manufacturing, industrial IoT, and energy management systems.

In addition, the department has established strong academic and industrial networks with various public and private organizations, including the Institute for Skill Development, the Provincial Waterworks Authority, and leading industrial enterprises. These collaborations support workforce development, industrial modernization, and practical technology implementation for Thailand's manufacturing sector.

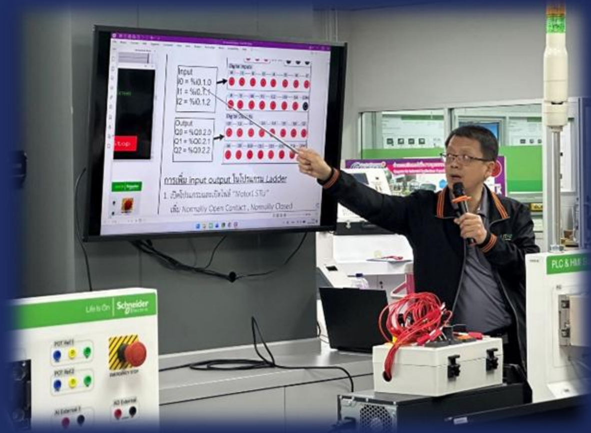
Today, the Automated Manufacturing Systems Department continues to serve as one of TFII's key platforms for industrial automation, smart manufacturing, and digital industrial transformation. The department remains committed to developing advanced technological capabilities, strengthening industrial competitiveness, and supporting sustainable industrial development for Thailand and the region.

4.5 Computer for Industrial Applications Department (CI)

The Computer for Industrial Applications Department focuses on the comprehensive development and integration of computer technologies for industrial applications through professional training, academic instruction, applied research, technology transfer, and consultancy services. The department plays an important role in supporting industrial digital transformation and enhancing technological capabilities for both educational institutions and industrial sectors.

The department offers specialized training programs covering three major areas: advanced SCADA systems, computer simulation for manufacturing and business systems, and academic service programs for educational institutions. In addition, the department develops instructional manuals, educational software, multimedia learning materials, and modern training systems designed to strengthen practical skills and technological knowledge for students, engineers, technicians, and industrial personnel.

To support modern industrial learning and innovation, the department has designed and developed advanced training systems and laboratory platforms, including Siemens S7-1200 PLC training systems, Dobot Magician robotic arm training platforms, automated production line control systems, and smart industrial automation applications. Many of these systems have strong potential for further industrial and commercial applications.



In collaboration with Schneider Electric (Thailand), the department actively supports the development of the TFII–Schneider Electric Center of Excellence, which serves as a major platform for industrial automation, smart manufacturing, energy management, and Industry 4.0 technologies. The Center promotes advanced industrial training, technology transfer, applied research, and workforce development programs that support Thailand's transition toward digital industry and sustainable industrial development.

Today, the Computer for Industrial Applications Department continues to strengthen its expertise in industrial computing, smart systems, industrial IoT, automation technologies, and digital engineering. The department remains committed to advancing innovation, supporting future industries, and developing highly skilled human resources for Thailand and the region.

4.6 Research, Development and Technology Transfer Department (RD)

The Research, Development and Technology Transfer Department was established to strengthen advanced research collaboration, innovation development, and international technology transfer activities within the Thai-French Innovation Institute (TFII). The department plays a strategic role in supporting applied research, academic collaboration, industrial innovation, and sustainable technology development for both Thailand and international partners.

The department was established through close collaboration with Université de Lorraine, France, together with the Renewable Energy Research Centre (RERC), Thai-French Innovation Institute (TFII), and King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand. Through this partnership, the Electrical Engineering – Thai French Research Center (EE-TFRC) was established in collaboration with Groupe de Recherche en Énergie Électrique de Nancy (GREEN) and Laboratoire Énergies & Mécanique Théorique et Appliquée (LEMTA), Université de Lorraine, France.

The EE-TFRC serves as an advanced research and academic platform focusing on strategic research areas including hydrogen as an energy vector, electric drives for e-mobility, and isolated electrical networks and micro-grid systems. The center supports collaborative research activities, innovation development, advanced laboratory facilities, and international academic exchange between Thai and French researchers, faculty members, and graduate students.

In addition to research activities, the department provides academic services, laboratory support, technology transfer programs, and advanced training for students, researchers, industrial personnel, and academic institutions. The department also supports the Dual Degree Doctoral Program in Electrical and Energy Engineering jointly conducted between Université de Lorraine and King Mongkut's University of Technology North Bangkok, which further strengthens international academic cooperation and high-level research development between Thailand and France.

Today, the Research, Development and Technology Transfer Department continues to serve as one of TFII's key research and innovation platforms, supporting advanced engineering research, clean energy technologies, international collaboration, and future-oriented technology development for Thailand and the global community.

4.7 Director's Office

The Director's Office provides administrative, financial, personnel, planning, procurement, audiovisual, documentation, and facility management support to ensure the effective operation of TFII. Through the coordination of institutional activities, academic services, training programs, and strategic initiatives, the Office plays a vital role in supporting the Institute's mission and facilitating the achievement of its objectives in education, research, industrial services, and international cooperation.

The TFII–Schneider Electric Center of Excellence

TFII - SCHNEIDER ELECTRIC CENTER OF EXCELLENCE

The TFII–Schneider Electric Center of Excellence (TFII–Schneider Electric CoE) was established through the strong collaboration between the Thai-French Innovation Institute (TFII), King Mongkut's University of Technology North Bangkok (KMUTNB), and Schneider Electric Thailand. The Center serves as a leading platform for advanced industrial technology training, applied research, innovation development, and human resource enhancement in response to Thailand's Industry 4.0 and sustainable energy transformation initiatives.

The Center focuses on the development of knowledge and professional competencies in industrial automation, programmable logic controllers (PLC), SCADA systems, industrial communication, motor control systems, smart manufacturing, industrial IoT, energy management, and electric vehicle (EV) technologies. Equipped with modern laboratories and industrial-standard training systems supported by Schneider Electric, the Center provides comprehensive academic and industrial training programs for students, engineers, technicians, vocational institutions, and industrial personnel nationwide.

In addition to technical training, the TFII–Schneider Electric CoE actively promotes research collaboration, technology transfer, industrial consultation, and workforce upskilling programs in cooperation with academic institutions, industries, and government organizations. The Center also supports the development of practical learning platforms and smart industrial laboratories utilizing Schneider Electric technologies and EcoStruxure solutions to enhance industrial competitiveness and sustainable technological development.

From September 2024 to February 2026, the Center successfully delivered 17 specialized training programs to more than 1,300 participants across multiple technical domains, including industrial automation, PLC programming, SCADA systems, motor control, electrical systems, and EV charging technologies. The Center continues to expand its role as a regional hub for advanced industrial automation education and sustainable industrial workforce development in Thailand and ASEAN.

Through continuous collaboration between academia and industry, the TFII–Schneider Electric Center of Excellence remains committed to advancing innovation, smart industrial systems, renewable energy technologies, and sustainable engineering education to support future industries and national development.

Center of Excellence in Electrochemistry and Corrosion Technology

COE-ECT

Center of Excellence

Electrochemistry & Corrosion Technology

The Center of Excellence in Electrochemistry and Corrosion Technology (COE-ECT) was established under the Thai-French Innovation Institute (TFII), King Mongkut's University of Technology North Bangkok (KMUTNB), to serve as a leading center for advanced research, industrial services, technology transfer, and human resource development in the fields of electrochemistry and corrosion technology.

The Center focuses on multidisciplinary research and industrial applications involving corrosion engineering, electrochemical systems, corrosion prevention, materials degradation analysis, protective coatings, inhibitor evaluation, and advanced electrochemical testing techniques. Through close collaboration with national and international research organizations, universities, and industrial partners, COE-ECT has continuously strengthened Thailand's capabilities in corrosion science, materials engineering, and sustainable industrial technology development.

COE-ECT actively collaborates with leading organizations and research institutions including CNRS (France), ESRF (European Synchrotron Radiation Facility), VAST (Vietnam Academy of Science and Technology), NSTDA, PTT Group, and various industrial sectors related to oil and gas, energy, manufacturing, packaging, transportation, and infrastructure industries. These collaborations support advanced research activities, joint technology development, industrial problem-solving, and international academic exchange.

The Center provides specialized services in corrosion analysis, electrochemical testing, inhibitor performance evaluation, material characterization, failure analysis, non-destructive testing support, industrial consultation, and professional training programs. The Center also supports research and testing activities for oil and gas industries, renewable energy systems, industrial manufacturing, and emerging sustainable technologies.

In addition to research and industrial services, COE-ECT actively promotes academic development through training programs, workshops, international conferences, and collaborative research projects for students, researchers, engineers, and industrial personnel. The Center regularly participates in major scientific and industrial events related to electrochemistry, corrosion engineering, and industrial technology at both national and international levels.

Today, the Center of Excellence in Electrochemistry and Corrosion Technology continues to serve as one of TFII's strategic research and innovation platforms, contributing significantly to industrial sustainability, infrastructure reliability, advanced materials technology, and the development of highly skilled human resources for Thailand and the international scientific community.

5. Collaborations and Partners

Renewable Energy Research Centre (RERC)

The Renewable Energy Research Centre (RERC) was established in 2010 as a specialized research platform dedicated to advancing renewable energy technologies, power electronics, and sustainable energy systems. Through research, innovation, and technology transfer, the center has contributed significantly to the development of fuel cell systems, solar energy, wind energy, energy storage technologies, and intelligent energy management solutions.

Operating under the Thai-French Innovation Institute (TFII), RERC supports interdisciplinary research and industrial collaboration in partnership with universities, research organizations, and industrial sectors both in Thailand and abroad. The center provides advanced laboratory facilities for graduate students, researchers, and industry personnel while promoting the development of sustainable energy technologies for future industries.

Through continuous collaboration with Université de Lorraine and other international partners, RERC has become an important platform for knowledge creation, research excellence, and renewable energy innovation, contributing to Thailand's transition toward a low-carbon and sustainable energy future.

Electrical Engineering – Thai French Research Center (EE-TFRC)

The Electrical Engineering – Thai French Research Center (EE-TFRC) is an international research laboratory jointly established by King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand, and Université de Lorraine, France, with support from Lorraine Université d'Excellence (LUE). Located within the Thai-French Innovation Institute (TFII), the center serves as a strategic platform for advanced research, international collaboration, and academic exchange in electrical and energy engineering.

The center focuses on three major research themes: hydrogen as an energy vector, electric drives for e-mobility, and isolated electrical networks and micro-grids. Supporting research activities encompass fuel cells and electrolyzers, power electronics, electrical machine design, energy storage systems, smart grids, and sustainable energy technologies.

EE-TFRC promotes joint research projects, researcher exchanges, international seminars, and doctoral-level education between Thailand and France. Through its strong collaboration with the GREEN and LEMTA laboratories of Université de Lorraine, the center has established a vibrant research ecosystem that advances scientific innovation, clean energy technologies, and future mobility solutions. Today, EE-TFRC stands as one of TFII's most significant international research initiatives, strengthening academic excellence and reinforcing the long-standing scientific partnership between Thailand and France.

Welding Institute of Thailand (WIT)

A Tangible Outcome of Thai–French Cooperation in Developing International Welding Professionals

The Welding Institute of Thailand (WIT) originated from the vision of King Mongkut's University of Technology North Bangkok (KMUTNB) to establish a national system for the qualification and certification of welding personnel in accordance with the standards of the International Institute of Welding (IIW). This initiative began in 1998 with the objective of enhancing Thailand's capabilities in welding technology and developing a workforce that meets international standards.

Subsequently, the Executive Board of the Thai-French Innovation Institute (TFII) approved a three-year cooperation project (2000–2003) between the Governments of Thailand and France. Under this framework, collaboration was established with the Institut de Soudure (IS) of France, leading to the establishment of the Welding Institute of Thailand in 2001.

In the same year, WIT became a member of the International Institute of Welding (IIW), an international professional organization founded in 1948. Today, IIW comprises 59 member countries worldwide and is recognized as one of the leading organizations contributing to the development of international welding standards alongside ISO and CEN.

The Thai–French cooperation that gave rise to WIT was far more than a short-term academic initiative. It laid the foundation for a sustainable national framework for welding personnel development, which continues to serve Thailand's industrial and educational sectors today.

"The seed of cooperation planted by France more than twenty-five years ago has continued to grow, producing tangible and lasting contributions to Thailand's workforce development and industrial advancement."

In 2004, the Welding Institute of Thailand was officially authorized by IIW as the sole Authorized Nominated Body (ANB Thailand) in the Kingdom of

Thailand. As the national ANB, WIT is responsible for the qualification and certification of welding personnel in accordance with internationally harmonized standards and operates under the requirements of ISO/IEC 17024 for personnel certification bodies.

Today, WIT oversees the training, examination, qualification, and certification of welding professionals, including International Welder (IW), International Welding Specialist (IWS), International Welding Engineer (IWE), and International Welding Inspection Personnel (IWIP).

WIT currently supervises a nationwide network of seven Approved Training Bodies (ATBs), encompassing universities, government agencies, vocational institutions, and industrial training organizations. These ATBs play a vital role in developing skilled personnel in accordance with IIW international qualification systems and serve as an effective platform linking education, research, professional training, and industrial development throughout Thailand.

Over the past twenty-five years, Thailand has awarded more than 500 international welding qualifications under the IIW system. These qualifications have been granted to professionals from Thailand and several other countries, including France, Australia, Singapore, Malaysia, Sri Lanka, Sudan, Nigeria, and Myanmar.

Thailand is also among the few countries that have successfully integrated IIW international professional qualifications with university degree programmes. Notable examples include the International Welding Engineer (IWE) programme and the International Welding Specialist (IWS) programme, which serve as successful models for linking higher education with internationally recognized professional qualifications.

Through its network of universities, vocational institutions, government agencies, and industry partners, WIT has contributed significantly to the development of qualified personnel supporting key sectors of the economy, including energy, power generation, petrochemical industries, transportation systems, automotive manufacturing, shipbuilding, infrastructure development, and advanced manufacturing.

From its origins in Thai–French cooperation, the Welding Institute of Thailand has evolved into Thailand's national centre for welding personnel qualification and certification, while also serving as a focal point for international cooperation in welding technology. The Institute plays an important role in connecting academia, industry, government agencies, and professional organizations at both national and international levels.

In 2027, Thailand will have the honor of hosting the 80th IIW Annual Assembly and International Conference in Bangkok. This landmark event will provide a significant opportunity to showcase Thailand's achievements in standards, technology, innovation, and workforce development while strengthening cooperation among Thailand, France, and IIW member countries worldwide.

Today, the Welding Institute of Thailand stands as one of the most tangible and enduring outcomes of Thai–French cooperation under the Thai-French Innovation Institute. For more than twenty-five years, WIT has contributed to workforce development, industrial competitiveness, and international standardization, while continuing to support Thailand's sustainable economic and industrial development and strengthening its position within the global welding community.

As Thailand prepares to host the IIW Annual Assembly in 2027, WIT remains committed to advancing international collaboration, promoting excellence in welding education and certification, and supporting the development of future generations of highly skilled professionals.

5. International Organization for Standardization

ISO 9001:2015 - Human Resource Management:

TFII is committed to developing the quality of human resources and providing constant academic services to the society. The Institute has adopted the ISO 9001: 2008 for the administration since 1999, now upgraded into ISO 9001:2015. The main policy is placed on “Becoming a leader in academic and research at the international level. “Quality management activities cover various scopes encompassing technical training, research and academic service, consultancy and problem solving, inspection and testing, design and production. Procedures for operating and maintaining the quality system and quality improvement were established following the requirements of ISO 9001:2015, staying in line with contractual service agreement with customers and the University Regulations.

Certificate of Registration

This certificate has been awarded to

Thai-French Innovation Institute
King Mongkut's University of Technology North Bangkok

1518 Pracharat 1 Rd., Wongsawang, Bangsue, Bangkok, 10800, Thailand

in recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Technical Training, Research and Academic Services
(Teaching, Consultancy and Problem Solving,
Inspection and Testing, Design and Production)

Certificate Number **79800/A/0001/UK/En**

Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
27 March 2024	**8**	**26 March 2027**	**8**
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
06 February 2024	**0**	**27 March 2003**	**n/a**

For detailed explanation for the data fields above, refer to http://www.urs-holdings.com/logos-and-regulations

Issued by

Mukesh Singhal - On behalf of the Schemes Manager

6. TFII’s Activity and Outcome

6.1 Academic Services

Academic Services at the Thai-French Innovation Institute (TFII) are dedicated to supporting lifelong learning, professional development, and industrial advancement through specialized training programs, seminars, workshops, and technical consultation services. The Institute offers a wide range of courses in engineering, technology, automation, energy, welding, corrosion, industrial digitalization, and other emerging industrial fields. Through close collaboration with academic institutions, government agencies, and industrial partners, TFII continuously promotes knowledge transfer, capacity building, and workforce development to enhance the competitiveness and technological capabilities of Thailand's industries.

6.1.1 Training Service

The Training services is a key mechanism for technology transfer and human resource development at the Thai-French Innovation Institute (TFII). TFII delivers more than 200 specialized training courses covering welding technology, electrical and energy engineering, industrial automation, PLC and SCADA systems, corrosion technology, smart manufacturing, industrial digitalization, renewable energy, and emerging technologies. Through collaboration with international partners, professional organizations, government agencies, and industrial sectors, the unit provides professional development programs, certification courses, customized industrial training, and workforce upskilling initiatives. Over the past three decades, TFII has trained more than 127,000 participants, contributing significantly to the development of highly skilled engineers, technicians, vocational instructors, students, and industrial personnel in support of Thailand's industrial and technological advancement.

6.1.2 Testing and Inspection Service

Testing and Inspection Services are among the core functions of the Thai-French Innovation Institute (TFII), supporting industrial quality assurance, product reliability, and technological advancement through specialized laboratories and expert personnel. The Institute provides comprehensive services in materials testing, corrosion assessment, welding inspection, non-destructive testing (NDT), failure analysis, and industrial quality evaluation in accordance with recognized national and international standards.

Serving industries in manufacturing, energy, oil and gas, infrastructure, transportation, and advanced engineering sectors, TFII assists clients in evaluating material performance, ensuring product quality, solving technical problems, and enhancing operational reliability. Through continuous investment in laboratory capabilities, professional expertise, and quality management systems, the Institute has established itself as a trusted technical partner for both public and private organizations.

Between 2021 and 2025, TFII successfully completed 600+ testing and inspection projects and analyzed more than 3,500+ industrial samples and workpieces. Throughout this period, customer satisfaction consistently exceeded 90 percent, while all testing projects were completed on schedule. These achievements reflect TFII's commitment to delivering reliable, high-quality technical services that contribute to industrial competitiveness, innovation, and sustainable development in Thailand.

6.1.3 Academic and Professional Consultancy Services

Academic and Professional Consultancy Services represent an important component of the Thai-French Innovation Institute's mission to support industrial development and technological advancement. Drawing upon expertise from its multidisciplinary departments and research centers, TFII provides specialized consultation in areas such as welding technology, corrosion engineering, renewable energy, industrial automation, smart manufacturing, electrical and energy systems, industrial digitalization, testing and inspection, and technology transfer.

Through close collaboration with industries, government agencies, educational institutions, and international partners, TFII assists organizations in solving technical challenges, improving operational performance, enhancing product quality, adopting advanced technologies, and developing innovative solutions tailored to their specific needs. These consultancy services serve as a bridge between academic knowledge and industrial application, enabling effective technology utilization and sustainable organizational development.

Between 2021 and 2025, TFII successfully completed 90+ consultancy projects for a wide range of industrial and institutional clients. Throughout this period, customer satisfaction consistently exceeded 94 percent, reflecting the Institute's commitment to delivering high-quality technical expertise, practical solutions, and professional services. Through its consultancy activities, TFII continues to strengthen industrial competitiveness, promote innovation, and contribute to the sustainable development of Thailand's economy and technological capabilities.

6.1.4 Engineering Design, System Development and Prototype Fabrication Services

Engineering Design, System Development and Prototype Fabrication Services represent TFII's capability to transform technical concepts and industrial requirements into practical engineering solutions. Through the expertise of its multidisciplinary departments and research centers, TFII provides services in system analysis, engineering design, automation solutions, prototype development, industrial equipment design, simulation systems, and customized technology development for both public and private sectors.

The Institute supports industries in improving productivity, enhancing operational efficiency, adopting advanced technologies, and developing innovative products and processes. By integrating engineering knowledge with practical industrial experience, TFII serves as a bridge between research, technology development, and industrial application.

Between 2022 and 2025, TFII successfully completed 60+ projects involving system analysis, engineering design, prototype development, and technology implementation. These projects supported a wide range of industrial sectors and contributed to the development of innovative solutions, industrial modernization, and technology transfer. Through continuous collaboration with industry and academia, TFII remains committed to advancing engineering innovation, supporting industrial competitiveness, and creating sustainable technological value for Thailand and the region.

6.1.5 Research and Development Services

Research and Development Services is a key mission of the Thai-French Innovation Institute (TFII), supporting technological innovation, industrial advancement, and sustainable development through applied research and international collaboration. Leveraging expertise across its departments, research centers, and centers of excellence, TFII conducts multidisciplinary research in renewable energy, electrical and energy engineering, industrial automation, smart manufacturing, corrosion and electrochemistry, advanced materials, and emerging industrial technologies.

Through close collaboration with universities, research institutes, government agencies, and industrial partners in Thailand and abroad, TFII transforms scientific knowledge into practical solutions that address industrial challenges and national development priorities. The Institute actively promotes technology transfer, innovation development, prototype creation, and the commercialization of research outcomes to enhance industrial competitiveness and societal impact.

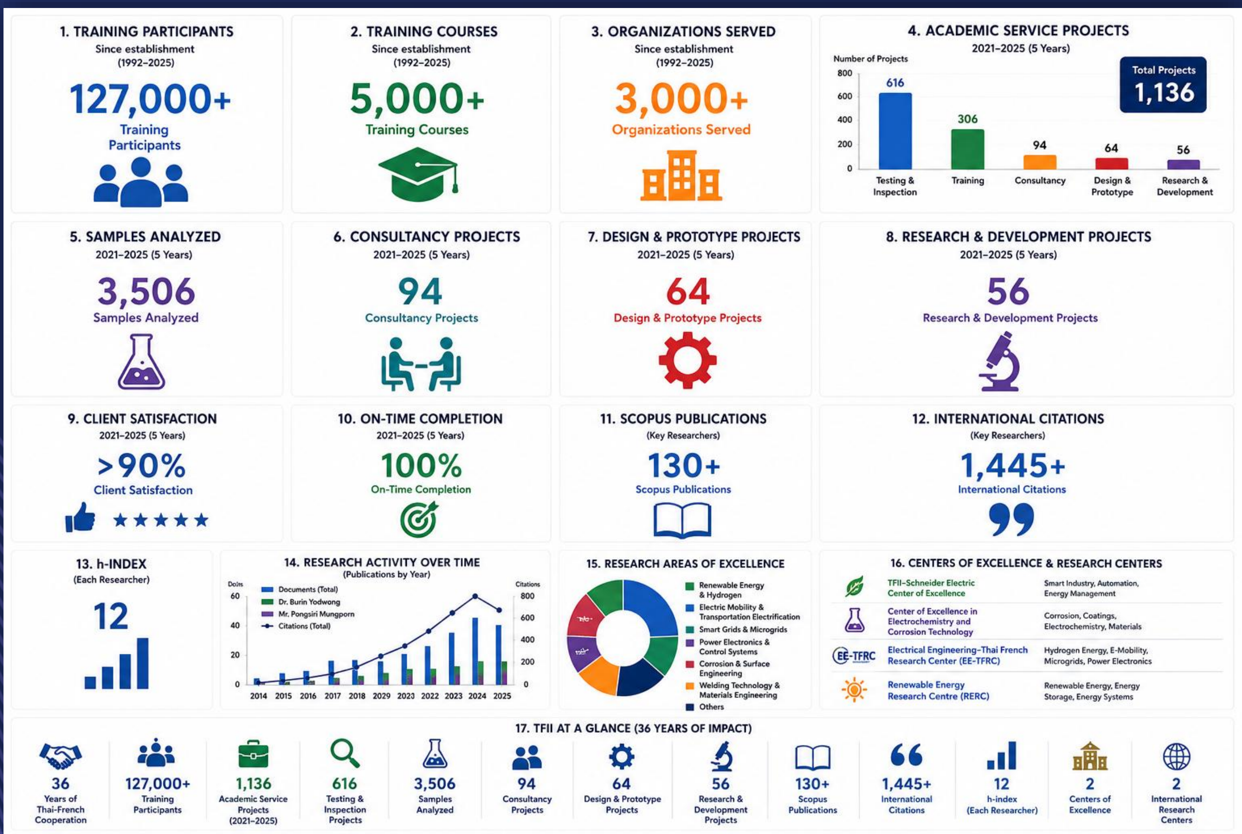
Between 2021 and 2025, TFII successfully carried out 50+ research and development projects with a combined project value exceeding 90 million baht. These projects contributed to the advancement of clean energy technologies, industrial innovation, sustainable engineering solutions, and international research cooperation. Through its commitment to research excellence and innovation, TFII continues to serve as a driving force for knowledge creation, technological progress, and sustainable development for Thailand and the global community.

6.2 Academic Research

Academic Research has long been one of the core missions of the Thai-French Innovation Institute (TFII), serving as a key mechanism for advancing knowledge, technological innovation, and international collaboration. Over the past 36 years, TFII has continuously strengthened its research capabilities through close cooperation with King Mongkut's University of Technology North Bangkok, French universities and research institutions, industrial partners, and international networks.

TFII's research activities encompass a broad range of strategic fields, including renewable energy systems, hydrogen technologies, electric mobility, smart grids, power electronics, industrial automation, welding engineering, corrosion technology, advanced manufacturing systems, and digital industrial technologies. Through its multidisciplinary approach, the Institute has successfully integrated fundamental research, applied research, and industrial applications to address both national and global technological challenges.

A major milestone in TFII's research development has been the establishment of international research platforms such as the Electrical Engineering–Thai French Research Center (EE-TFRC), created in collaboration with Université de Lorraine,



GREEN Laboratory, and LEMTA, France. The center focuses on three strategic research themes: Hydrogen as an Energetic Vector, Electric Drives for E-Mobility, and Isolated Electrical Networks and Microgrids. These research activities directly support the global transition toward low-carbon energy systems and sustainable industrial development.

Among TFII's notable achievements are the research contributions of Dr. Burin Yodwong and Mr. Pongsiri Mungporn, whose work in hydrogen energy systems, fuel cells, electrolyzers, electric mobility, hybrid energy storage systems, and smart microgrids has received international recognition. Together, they have contributed to more than 130 Scopus-indexed publications and accumulated over 1,400 citations, reflecting the global impact of research conducted at TFII. Their publications have appeared in leading international journals, including IEEE Transactions, International Journal of Electrical Power and Energy Systems, Sustainability, Electronics, and Journal of Energy Storage.

Beyond academic publications, TFII research has generated significant outcomes in human resource development, graduate education, technology transfer, laboratory development, and international research collaboration. Research projects have supported master's and doctoral students, strengthened dual-degree programs with French partner universities, and contributed to the development of advanced laboratories and experimental platforms that serve both academic and industrial communities.

Today, TFII continues to advance research excellence through strong Thai-French cooperation and international partnerships. By combining scientific innovation, engineering expertise, and industrial relevance, the Institute remains committed to developing technologies and knowledge that contribute to Thailand's competitiveness, sustainable development, and the transition toward a low-carbon and renewable energy future.

6.3 TFII–Schneider Electric Center of Excellence

Advancing Industrial Automation and Workforce Development for Industry 4.0

The TFII–Schneider Electric Center of Excellence represents a strategic partnership between the Thai-French Innovation Institute (TFII), King Mongkut's University of Technology North Bangkok (KMUTNB), and Schneider Electric, a global leader in energy management and industrial automation. Established to strengthen industrial workforce development and promote advanced industrial technologies, the Center serves as a modern platform for education, training, technology transfer, and industry-academia collaboration in support of Thailand's Industry 4.0 transformation.

The Center focuses on developing competencies in industrial automation, programmable logic controllers (PLC), motor control systems, SCADA technologies, industrial communication networks, electrical engineering, and emerging technologies such as electric vehicle charging infrastructure. Through the integration of Schneider Electric's industrial solutions and TFII's long-standing expertise in engineering education and professional training, the Center provides practical, industry-oriented learning experiences that address the evolving needs of modern industry.

From September 2024 to February 2026, the TFII–Schneider Electric Center of Excellence successfully delivered 17 specialized training programs across four technical domains and trained 1,384 participants, including engineers, technicians, students, vocational instructors, and industrial personnel. The Center has become an important mechanism for strengthening industrial capabilities and supporting workforce upskilling in automation and smart manufacturing technologies.

Industrial Automation and PLC technologies accounted for the largest share of training activities, followed by Automated Manufacturing Systems and

Electrical Engineering Skills. The most popular courses included Basic Industrial Automation, Electrical and Electronic Drawing, Industrial Motor Control with Inverter, and Industrial Automation, reflecting strong demand for practical skills that are directly applicable to manufacturing and industrial operations. These programs help participants acquire the competencies required to operate, maintain, and improve modern industrial systems while supporting productivity enhancement and digital transformation initiatives.

Beyond technical training, the Center contributes to the broader development of Thailand's industrial ecosystem through collaboration with educational institutions, vocational colleges, and industrial organizations. By promoting knowledge transfer, practical learning, and professional development, the Center helps bridge the gap between academic education and industrial practice. The partnership also supports the development of future engineers and technicians who are equipped with the skills needed to thrive in increasingly digitalized and automated industrial environments.

Looking ahead, the TFII–Schneider Electric Center of Excellence aims to expand its activities into advanced Industry 4.0 technologies, Industrial Internet of Things (IIoT), smart factory systems, electric mobility, and sustainable energy applications. With a long-term goal of training more than 4,000 participants by 2027, the Center continues to strengthen its role as a regional hub for industrial automation education and professional development.

As TFII celebrates its 36th anniversary under the theme "Toward a Low Carbon and Renewable Energy Future," the TFII–Schneider Electric Center of Excellence stands as a successful example of how international partnership, industrial expertise, and educational innovation can work together to develop human capital, enhance industrial competitiveness,

and support sustainable technological advancement for Thailand and the ASEAN region.

6.4 Center of Excellence in Electrochemistry and Corrosion Technology (CoE-ECT)

Advancing Corrosion Innovation Through Research, Industrial Collaboration, and Human Resource Development

The Center of Excellence in Electrochemistry and Corrosion Technology (CoE-ECT) was established by the Thai-French Innovation Institute (TFII), King Mongkut's University of Technology North Bangkok, to strengthen academic excellence, industrial collaboration, and technological innovation in the fields of electrochemistry and corrosion engineering. Building upon TFII's long-standing expertise in corrosion technology and industrial services, the Center serves as a platform for integrating research, testing, training, and knowledge transfer to support the sustainable development of industry and infrastructure.

Since its establishment, CoE-ECT has actively promoted collaboration among universities, research institutions, and industrial organizations both in Thailand and internationally. A significant milestone was the Center's engagement with leading researchers from France, including experts from the French National Centre for Scientific Research (CNRS), IRCELYON, and the European Synchrotron Radiation Facility (ESRF), together with researchers from KMUTNB, NSTDA, Khon Kaen University, and Suranaree University of Technology. These activities have strengthened academic networks and laid the foundation for future collaborative research in electrochemistry, advanced materials, catalysis, and corrosion science.

The Center has also enhanced its academic visibility through participation in major scientific conferences and professional forums. At PACCON 2026, CoE-ECT presented its vision under the theme *"Advancing Corrosion Innovation Through Certified Testing and Industrial Collaboration,"* highlighting TFII's capabilities in corrosion research, electrochemical testing, and industrial applications. Technical presentations delivered by TFII researchers showcased the application of electrochemical techniques in corrosion assessment and corrosion protection of engineering materials, reinforcing the Institute's reputation as a leading center of expertise in corrosion technology.

Recognizing the importance of industry engagement, CoE-ECT actively collaborates with industrial partners to ensure that research and innovation address real-world challenges. Through technical visits and knowledge exchange activities with companies such as Thai Beverage Can Co., Ltd., researchers and staff have gained valuable insights into manufacturing processes, quality assurance systems, and industrial management practices. These collaborations help bridge the gap between academic research and industrial implementation while fostering innovation-driven solutions for industry.

Human resource development is another key mission of the Center. CoE-ECT has introduced specialized training programs designed to enhance technical competencies in electrochemical testing and corrosion engineering. One notable example is the course “Electrochemical Testing for Packaging in the Food Industry” which has been recognized under the BOI STEM workforce development initiative. The program equips participants with advanced knowledge of corrosion mechanisms, electrochemical measurement techniques, coating performance evaluation, and materials reliability, supporting the development of highly skilled personnel for modern industries.

In addition, the Center actively promotes its expertise and services through participation in major industrial exhibitions and conferences. During Oil & Gas Thailand (OGET) 2025, CoE-ECT showcased its research activities, testing services, consultancy capabilities, and technology transfer initiatives to stakeholders from the energy, petrochemical, manufacturing, and infrastructure sectors. Such activities have expanded the Center’s industrial outreach and strengthened its role as a trusted partner in addressing corrosion-related challenges and asset integrity management.

As TFII celebrates its 36th anniversary under the theme “Toward a Low Carbon and Renewable Energy Future” the Center of Excellence in Electrochemistry and Corrosion Technology continues to contribute to national development through research excellence, industrial collaboration, and professional capacity building. By advancing electrochemical science, corrosion prevention technologies, and materials reliability, CoE-ECT plays an important role in supporting sustainable industrial growth, infrastructure resilience, and technological innovation for Thailand and the region.

7. Conclusion

For thirty-six years, the Thai-French Innovation Institute (TFII) has stood as a testament to the enduring friendship and productive cooperation between Thailand and France in the fields of science, technology, engineering, and innovation. From its foundation as a pioneering collaborative initiative between King Mongkut’s University of Technology North Bangkok and French partners, TFII has evolved into a recognized center of excellence in education, professional training, research, testing, consultancy, and technology transfer.

Throughout its journey, TFII has continuously adapted to the changing needs of industry and society. By fostering highly skilled engineers, researchers, technologists, and industrial professionals, the Institute has contributed significantly to Thailand’s technological advancement and industrial competitiveness. Through its close collaboration with universities, research institutions, government agencies, and industrial partners in both Thailand and France, TFII has successfully transformed knowledge into practical solutions that create value for industry and society.

The achievements highlighted throughout this commemorative volume reflect the dedication and vision of generations of leaders, faculty members, researchers, staff, students, alumni, and partners who have contributed to TFII’s development over the past three decades. Their collective efforts have established a strong foundation for excellence in engineering education, industrial services, advanced research, and international cooperation.

As the world enters a new era shaped by digital transformation, sustainable development, renewable energy, and carbon-neutral technologies, TFII remains committed to advancing innovation and developing future-ready human resources. Guided by the theme of its 36th Anniversary, “Toward a Low Carbon and Renewable Energy Future,” the Institute will continue to expand its capabilities in strategic areas such as renewable energy systems, hydrogen technologies, smart manufacturing, industrial automation, electrochemistry and corrosion technology, advanced materials, and sustainable engineering solutions.

Looking ahead, TFII will continue to serve as a bridge connecting academia, industry, and international partners, fostering innovation, strengthening technological capabilities, and creating opportunities for future generations. Building upon thirty-six years of achievement and collaboration, the Institute is well positioned to contribute to a more sustainable, resilient, and prosperous future for Thailand, the region, and the global community.

As we celebrate this important milestone, we honor the past, embrace the present, and look forward with confidence to the opportunities and challenges that lie ahead. Together, we will continue to innovate, collaborate, and create lasting impact for generations to come.

36th Anniversary Celebration Thai-French Innovation Institute

King Mongkut's University of Technology North Bangkok

" 36 Years of Thai-French Innovation : Towards a Low Carbon and Renewable Energy Future "

TUESDAY 23 JUNE 2026
9:30–17:00

OPENING CEREMONY
AT BENJARAT HALL, KMUTNB

H.E. Mr. Jean-Claude Poimbœuf
Ambassador of France to Thailand

Prof. Dr. Teravuti Boonyasopon
KMUTNB Chairman

Dr. Punpermsak Aruni
Deputy Permanent Secretary for Higher Education, Science, Research and Innovation

Invited Speakers

Prof. Somrerk Chandra-Ambhorn
Vice President for Research, KMUTNB

Topic : Thai-French Corrosion research towards global partners : A journey from carbon to stainless steels

Johan DUVAUT
Schneider Electric

Topic : Schneider Electric Mega Trends and Building of the Future

Prof. Noureddine Takorabet
Université de Lorraine, France

Topic : Academic and research collaboration between Universite de Lorraine and Thai-French Innovation Institute : Past achievements and future perspectives

Prof. Guy Chichignoud
Université Grenoble Alpes, France

Topic : Key technical challenges for industrial and sustainable recycling of c-Si PV modules

Prof. Hao Chen
Tsinghua University, China

Topic : Chemical boundary engineering towards advanced high strength steels

Prof. Laurence Latu-Romain
Université Grenoble Alpes, France

Topic : Towards an increase of alloys durability / Concept and technical approaches

Prof. To Thi Xuan Hang
Vietnamese Academy for Science and Technology, Vietnam

Topic : Curcumin-modified graphene oxide: A dual-functional additive for high-performance anti-corrosive and antibacterial polyurethane coatings

Prof. Valerie Parry
Grenoble Alpes University (UGA)

Topic : Mechanics-Oxidation Coupling in Crofer 22 APU Interconnects for Durable Solid Oxide Fuel Cells

Panel discussion : Future Trends in Electrified Transportation and Low-Carbon Energy Systems

Assoc.Prof. Ehsan Jamshidpour
IEEE Senior Member
Université de Lorraine, France

Prof. Babak Nahid-Mobarakeh
IEEE Fellow
McMaster University, Canada

Prof. Phatiphat Thounthong,
IEEE Senior Member
Faculty of Technical Education, KMUTNB

Prof. Surin Khomfoi
IEEE Senior Member
School of Engineering, KMITL

Dr. Burin Yodwong
IEEE Senior Member
Assistant Director for Administration and International Affairs, TFII

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23–24 June 2026

SEMINARS
24–26 June 2026

" 36 Years of Thai-French Innovation : Towards a Low Carbon and Renewable Energy Future "

TUESDAY 23 JUNE 2026
9:30-17:00

OPENING CEREMONY
AT BENJARAT HALL, KMUTNB

08:00-09:30	Registration & Welcome Reception
09:30-10:30	Opening Ceremony - Welcome, Opening & Congratulations Speeches - Photo Session on Stage
10:30-11:00	Exhibition Booth Tour

Session 1 Invited Speakers Session 1 - Bencharat Hall, KMUTNB (20 min each)

10:30-10:50

Prof. Somrerk Chandra-Ambhorn, Vice President for Research, KMUTNB
Topic : Thai-French Corrosion research towards global partners : A journey from carbon to stainless steels

10:50-11:10

Johan DUVAUT, Schneider Electric
Topic : Schneider Electric Mega Trends and Building of the Future

11:10-11:30

Prof. Noureddine Takorabet, Université de Lorraine, France
Topic : Academic and research collaboration between Universite de Lorraine and Thai-French Innovation Institute : Past achievements and future perspectives

12:00-13:30 **Lunch Break**
Rachapruek Reception Room

Session 2 Invited Speakers Session 2 - Bencharat Hall, KMUTNB (20 min each)

13:30-13:50

Prof. Guy Chichignoud Université Grenoble Alpes, France
Topic : Key technical challenges for industrial and sustainable recycling of c-Si PV modules

13:50-14:10

Prof. Hao Chen Tsinghua University, China
Topic : Chemical boundary engineering towards advanced high strength steels

14:10-14:30

Prof. Laurence Latu-Romain Université Grenoble Alpes, France
Topic : Towards an increase of alloys durability / Concept and technical approaches

14:30-14:50

Prof. To Thi Xuan Hang Vietnamese Academy for Science and Technology, Vietnam
Topic : Curcumin-modified graphene oxide: A dual-functional additive for high-performance anti-corrosive and antibacterial polyurethane coatings

14:50-15:10

Prof. Valerie Parry Grenoble Alpes University (UGA)
Topic : Mechanics-Oxidation Coupling in Crofer 22 APU Interconnects for Durable Solid Oxide Fuel Cells

Panel discussion : Future Trends in Electrified Transportation and Low-Carbon Energy Systems

15:30-17:00

Assoc.Prof. Ehsan Jamshidpour
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McMaster University, Canada

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Prof. Surin Khomfoi
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School of Engineering, KMITL

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Thai-French Innovation Institute Event Gallery


















Thai-French Innovation Institute
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