

Chawin Chantharasenawong

ชวิน จันทระเสนาวงศ์

Associate Professor, Mechanical Engineering · Vice President for Internationalisation, KMUTT

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PROFILE

Aeronautical engineer trained at Imperial College London, now leading internationalisation at King Mongkut's University of Technology Thonburi (KMUTT). My work bridges engineering education, wind-energy research, and the leadership of Thai higher education in regional and global partnerships. I currently serve as Deputy Chair of the International Mission Committee at the Council of University Presidents of Thailand (CUPT), with governance roles spanning international schooling and a national teaching-award foundation.

LEADERSHIP & GOVERNANCE

Vice President for Internationalisation 2023 – present
KMUTT — *Leads the university's international strategy and academic partnerships across global networks.*

Deputy Chair, International Mission Committee 2025 – 2026 term
Council of University Presidents of Thailand (CUPT) — *National apex body coordinating internationalisation strategy across Thailand's universities.*

Member, Board of Trustees 2015 – present
Concordian International School, Bangkok — *IB World School offering trilingual education. Chairperson of the Board, 2018–2023.*

Deputy Manager, International Affairs Committee 2018 – present
Princess Maha Chakri Award Foundation (PMCAF) — *International outreach for the award honouring teachers across ASEAN, Bhutan, Bangladesh and Mongolia who change their students' lives. Technical Committee 2016–2018; Working Committee 2014–2016.*

Delegate

World Technology Universities Network (WTUN)

Earlier university leadership (KMUTT)

Associate Dean for International Affairs, Faculty of Engineering 2012 – 2020

Director, International Centre for Engineering (ICE) 2010 – 2012

Course Director, BEng Mechanical Engineering (Energy, Economics & Environment) 2010 – 2015

ACADEMIC APPOINTMENTS

Associate Professor, Department of Mechanical Engineering, KMUTT 2018 – present

Faculty member, Department of Mechanical Engineering, KMUTT 2008 – present

SELECTED KEYNOTES & INVITED POLICY TALKS (2024–2025)

“Entrepreneurial Universities — Innovating and Disrupting International Education” Mar 2024
APAIE 2024, Perth, Australia

“Leading Effective Integration of GenAI in Higher Education” Apr 2024

SEA Regional High-Level Policy Dialogue, UNESCO-ICHEI, Jakarta

“Thailand: Strategic Visioning for the Common Space and Futuristic Leadership”

Oct 2024

16th SEA-HiEd SOM, Dili, Timor-Leste

“Higher Education in Focus: University Support for Conflict-Affected Students from Myanmar — the ASEAN Case”

May 2025

DAAD, Brussels, Belgium

“Smart Connections: ASEAN Perspectives on Cooperation with European Universities”

May 2025

KU Leuven, Belgium

EDUCATION

PhD, Aeronautics — Imperial College London

2007

MEng, Aeronautics — Imperial College London

2003

GCE A-Levels — St Edward’s School, Oxford

1999

GCE O-Levels — St Andrew’s Secondary School, Singapore

1997

PROFESSIONAL DEVELOPMENT

Executive Leadership Development for Thai Higher Education

May 2026

Mahidol University & Center for Creative Leadership (CCL), with KMUTT, Kasetsart and Thammasat Universities — Sessions on the I.M.P.A.C.T. leadership model and a Strategic Foresight workshop on the future of Thai higher education.

UniLEAD — University Leadership & Management Training

2014 - 2015

DAAD (German Academic Exchange Service)

RESEARCH INTERESTS

Wind-energy technology · Aeroelasticity · Dynamic stall · Nonlinear dynamical systems

HONOURS & SUPERVISED STUDENT TEAMS

- TSAE Auto Challenge — Formula Student: National Champions 2013, 2016, 2018; National Runners-up 2017 (faculty advisor).
- Schneider Electric “Go Green in the City”: National Champions 2013; National Runners-up 2016, 2017 (faculty advisor).

Academic Appendix

Publications, talks and teaching

A continuously updated record of publications is maintained on the KMUTT research portal: [KIRIM profile](#)

JOURNAL PUBLICATIONS

1. W. Saowadee and C. **Chantharasenawong**, "Design and Prototyping of Driving Test Kit for EcoMileage Challenge Vehicle," EAU Heritage Journal Science and Technology, Vol. 18, No. 2, May–Aug 2024.
2. S. Sakulmalaithong, A. Viputsupakornwong, C. Phumpaluk and C. **Chantharasenawong**, "Development of titration laboratory for online learning," AIP Conference Proceedings 3086, 040008 (2024). doi.org/10.1063/5.0208500
3. C. **Chantharasenawong**, T. Yangyuen, A. Changsri and C. Rukapant, "Effects of Roll Reduction System (RRS) on a Formula SAE car," SAE MobilityRxiv Preprint, submitted 3 August 2021. doi.org/10.47953/SAE-PP-00163
4. C. **Chantharasenawong**, A. Chanta, P. Siripongarpone and S. Kaoudom, "Improvement of Formula Student Racecar Performance with Rotary Variable Runner Length for the Intake System," SAE Technical Paper 2018-01-0977. doi.org/10.4271/2018-01-0977
5. C. **Chantharasenawong**, "Improvement of Formula Student Racecar Performance with Variable Runner Length for the Intake System," SAE Technical Paper 2017-01-1083, 2017. doi.org/10.4271/2017-01-1083
6. J. Peiró, U. Galvanetto and C. **Chantharasenawong**, "Assessment of added mass effects on flutter boundaries using the Leishman–Beddoes dynamic stall model," Journal of Fluids and Structures, Vol. 26, Issue 5, 2010, pp. 814–840.
7. U. Galvanetto, J. Peiró and C. **Chantharasenawong**, "An assessment of some effects of the nonsmoothness of the Leishman–Beddoes dynamic stall model on the nonlinear dynamics of a typical aerofoil section," Journal of Fluids and Structures, Vol. 24, Issue 1, 2008, pp. 151–163.
8. U. Galvanetto, J. Peiró and C. **Chantharasenawong**, "Remarks on the nonlinear dynamics of a typical aerofoil section in dynamic stall," The Aeronautical Journal, Vol. 111, 2007, pp. 731–739. ISSN 0001-9240.

CONFERENCE PROCEEDINGS

1. S. Sakulmalaithong, A. Viputsupakornwong, C. Phumpaluk and C. **Chantharasenawong**, "Development of Titration Laboratory for online learning," 12th TSME International Conference on Mechanical Engineering (TSME-ICoME), Phuket, Thailand, 13–16 December 2022.
2. K. Kanthanasorn, T. Mansumittrchai, T. Sookkij and C. **Chantharasenawong**, "Installation of a rear fan on RC race car body to improve drag," 12th TSME International Conference on Mechanical Engineering, Phuket, Thailand, 13–16 December 2022.
3. C. **Chantharasenawong**, K. Wongsathian, J. Euanorasetr and N. Chaimusik, "Effects of bacteria solution physical properties on spraying distribution with various types of nozzles," 11th Kuala Lumpur International Agriculture, Forestry and Plantation Conference (KLiAFP11), online, 31 May 2022.
4. N. Khaosang, N. Nirapai, K. Kongmanee, C. **Chantharasenawong** and J. Srirat, "Development of block-based coding teaching tool with agriculture application (Smart Farm)," 2021 International STEM Education Conference (iSTEM-Ed 2021), Pattaya, Thailand, 10–12 November 2021.
5. T. Sheravanichkul, N. Techasomboonsuk, T. Thonglerd and C. **Chantharasenawong**, "Development of Bladeless Wind Turbine Generator," 6th International Conference on Power and Energy Systems Engineering (CPESE 2019), Okinawa, Japan, 20–23 September 2019.
6. S. Saengsaen, C. **Chantharasenawong** and T. L. Wu, "A 2-D Mathematical Model of Vortex Induced Vibration Driven Bladeless Wind Turbine," 3rd International Conference on Mechanical, System and Control Engineering (ICMSE), St Petersburg, Russia, 21–23 June 2019.

7. S. Saengsaen, C. Thongkroy, W. Wechsator and C. **Chantharasenawong**, "Design and Efficiency Assessment of Solar Thermal Updraft Tower with Molten Salt as Heat Storage," 2018 IEEE Student Conference on Electric Machines and Systems, Huzhou, China, 14-16 December 2018.
8. A. Siriwattanapong and C. **Chantharasenawong**, "Electric Motorcycle Charging Station Powered by Solar Energy," 8th TSME International Conference on Mechanical Engineering, Bangkok, Thailand, 12-15 December 2017.
9. T. Wongpattnanukul and C. **Chantharasenawong**, "Effect of Suspension Kinematic on 14DOF Vehicle Model," 4th International Conference on Mechanical, Materials and Manufacturing (ICMMM 2017), Atlanta, USA, 25-27 October 2017 (IOP Conference Series).
10. T. Chunpongton, T. Limpaphan, T. Kerdnok, K. Ruangjirakit and C. **Chantharasenawong**, "Computational Fluid Dynamics analysis of morphing blade for small horizontal axis wind turbine," 7th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 13-16 December 2016.
11. C. **Chantharasenawong**, V. Junburanasiri, J. Sirichotirat and B. Paowasant, "Design and Fabrication of Permanent Magnetic Bearings for Small Wind Turbines," 7th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 13-16 December 2016.
12. D. Kollasuta and C. **Chantharasenawong**, "Development and Verification of Offshore Wind Farm Layout Optimisation Numerical Model with Wake Losses," 10th South East Asian Technical University Consortium Symposium (SEATUC 2016), Tokyo, Japan, 22-24 February 2016.
13. C. **Chantharasenawong**, D. Kollasuta and D. Sukawat, "Development of Numerical Offshore Wind Farm Layout Optimisation Model with Wake Loss," 2015 International Conference on Alternative Energy in Developing Countries and Emerging Economies, Bangkok, Thailand, 28-29 May 2015.
14. C. **Chantharasenawong**, S. Worasinchai, K. Rachavanich, N. Wanawas and S. Suphachittakon, "Effects of rotor blade span on self-starting capability of Darrieus wind turbine," 5th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 17-19 December 2014.
15. T. Chuamvarasart, C. **Chantharasenawong** and S. Wongkittirat, "Conceptual design of small wind turbine blades with morphing ability," 2014 World Congress on Advances in Civil, Environment and Materials Research (ACEM14), BEXCO, Busan, South Korea, 24-28 August 2014.
16. สุจารย์ส พันธุ์ประสิทธิ์เวช, นิลุบล แหยมอุบล และ ชวิน **จันทร์เสนาวงศ์**, "การศึกษาปัจจัยสำคัญในการรับนักศึกษาและการจัดการเรียนการสอนในระบบ Residential College ของคณะวิศวกรรมศาสตร์ มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี ประจำปีการศึกษา 2556."
17. C. **Chantharasenawong**, D. Kollasuta, T. Thananglertmalai and P. Sirirat, "A preliminary Formula Student racecar performance comparative analysis between space frame and semi-monocoque construction," 4th TSME International Conference on Mechanical Engineering, Pattaya, Thailand, 16-18 October 2013.
18. T. Chuamvarasart, C. **Chantharasenawong** and A. Khantachawana, "A conceptual design of small wind turbines with morphing blade," 6th International Exergy, Energy and Environment Symposium, Rize, Turkey, 1-4 July 2013.
19. C. **Chantharasenawong**, K. Ruangjirakit, P. Kaewtatip and Y. Laoonual, "A preliminary study of the impact of 2015 inauguration of the ASEAN Economic Community on the growth of Thailand's electric vehicle industry," 5th AUN/SEED-Net Regional Conference on New/Renewable Energy, Hanoi, Vietnam, 26-27 September 2012.
20. C. **Chantharasenawong**, S. Umar, S. Nimitkul and H. Somsongsawat, "A feasibility study of wind powered irrigation system in Thailand tapioca farms," 5th AUN/SEED-Net Regional Conference on New/Renewable Energy, Hanoi, Vietnam, 26-27 September 2012.
21. C. **Chantharasenawong** and P. Promoppatum, "An investigation on racecar starting positions in the Student Formula competition Acceleration Event," 8th International Conference on Automotive Engineering (ICAE-8), Bangkok, Thailand, 2-5 April 2012.
22. C. **Chantharasenawong**, C. Prapanavarat and A. Pliensakul, "Design and development of a 10kW permanent magnet synchronous generator prototype for a grid-connected low wind speed wind turbine," 6th SEATUC International Symposium, Bangkok, Thailand, 6-7 March 2012.

23. C. **Chantharasenawong**, P. Jongpradist and S. Laoharatchapruerk, "Preliminary design of 1.5-MW modular wind turbine tower," 2nd TSME International Conference on Mechanical Engineering, Krabi, Thailand, 19–21 October 2011.
24. W. Pumchaloen, R. Chumueang, A. Kialon and C. **Chantharasenawong**, "Assessment of Student Formula driver's safety through optimization of impact attenuator sizing," 7th International Conference on Automotive Engineering (ICAE-7), Bangkok, Thailand, 28 March – 1 April 2011.
25. C. **Chantharasenawong** and W. Tipkaew, "Determination of Wind Turbine Blade Flapwise Bending Dynamics," 1st TSME International Conference on Mechanical Engineering, Ubon Ratchathani, Thailand, 20–22 October 2010.
26. S. Saowjoo, W. Saowadee and C. **Chantharasenawong**, "Determination of HGA Aerodynamic Indicial Response for Unsteady Flow Computation," DST-con International Conference, BITEC, Bangkok, Thailand, 31 July 2010.
27. วสวัตต์ เสาวดี, สมประสงค์ สาวจู, ชวิน **จันทร์เสนาวงศ์**, "การคำนวณค่าสัมประสิทธิ์ของแผนอากาศสำหรับแบบจำลองไดนามิกสตอลโดยใช้ CFD," การประชุมเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทย ครั้งที่ 23, จังหวัดเชียงใหม่, 4–7 พฤศจิกายน 2552.
28. C. **Chantharasenawong**, B. Suwantragul and A. Ruangwiset, "Axial momentum theory for turbines with co-axial counter rotating rotors," Commemorative International Conference on the 4th Cycle Anniversary of KMUTT — Sustainable Development to Save the Earth (SDSE2008), 7–9 April 2009.
29. บันเทิง สุวรรณตระกูล, ชวิน **จันทร์เสนาวงศ์**, อรรณพ เรืองวิเศษ, "ทฤษฎีโมเมนต์ตามแนวแกนสำหรับกังหันลมที่มีสองโรเตอร์หมุนสวนทางกัน," การประชุมเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทย ครั้งที่ 22, มหาวิทยาลัยธรรมศาสตร์ ศูนย์รังสิต, 15–17 ตุลาคม 2551.
30. U. Galvanetto, J. Peiró and C. **Chantharasenawong**, "Nonlinear dynamics of an aerofoil in dynamic stall conditions," 7th World Congress on Computational Mechanics, Los Angeles, California, USA, 16–22 July 2006.

INVITED TALKS & SEMINARS

1. C. **Chantharasenawong**, K. Wongsathian, N. Khaosang and N. Nirapai, "STEM Education in Thai Universities under the COVID-19 Pandemic," Third Thai–Russia Roundtable: Collaboration of Gifted Education and Research, 16–17 September 2021.
2. C. **Chantharasenawong**, "Assessment of hard disk Head Gimbal Assembly (HGA) aeroelastic stability," ANSCSE 15, Bangkok University, 1 April 2011 (invited paper).
3. ชวิน **จันทร์เสนาวงศ์**, วรวุฒิ ทิพย์แก้ว, "การศึกษาการตอบสนองทางพลวัตของการตั้งของใบพัดกังหันลมในทิศทางตามลม," การประชุมระดมสมองสร้างเครือข่ายความร่วมมือด้านวิจัย (ทอมก): วิจัยวิจัยกับการพัฒนาประเทศ ประจำปี 2553, โรงแรมเอเชีย ราชเทวี กรุงเทพฯ, 21 พฤษภาคม 2553.
4. C. **Chantharasenawong**, "Possibility of utilising wind energy in Thailand shrimp farms," NSTDA Annual Conference 2010 — Science and Technology for our Society and Planet, 31 March 2010.
5. C. **Chantharasenawong**, "An assessment of Thailand's wind energy technological advances and industry directions," 2nd Thailand–China Symposium on Advances in Renewable Energy Technology, Guangzhou, China, 15–17 December 2009.
6. C. **Chantharasenawong**, "Aerodynamics of Wind Turbine Control System," 1.5 MW Wind Turbine Pilot Project Operation Seminar, Eastin Hotel, Bangkok, 21 August 2009.

DOCTORAL THESIS

C. **Chantharasenawong**, "Nonlinear aeroelastic behaviour of aerofoils under dynamic stall," PhD Thesis, Department of Aeronautics, Imperial College London, 2007.

COURSES TAUGHT (KMUTT)

- Engineering Mechanics: Statics

- Engineering Mechanics: Dynamics
- Gas Turbine Theory
- Introduction to Aeroelasticity
- Wind Energy Technology