



FACS REPORT

Side Event FACS Innovation Science Project in PACCON2026 (Future Science Research Presentation for Junior researcher)

Date

25 December 2025- 13 February 2026

Task Group Chair (include address and e-mail)

Assoc. Prof. Dr. Supakorn Boonyuen, Department of Chemistry, Thammasat University, Thailand and Chemical Society of Thailand. chemistrytu@gmail.com

Task Group Members (include address and e-mail)

1. Dr. Alvin Lim Teik Zheng, Institute of Ecoscience Borneo, Universiti Putra Malaysia Sarawak, 97008, Bintulu, Sarawak, Malaysia, alvinltz@upm.edu.my
2. Dr Mathi Kandiah, Faculty of Life and Medical Sciences, BMS University, Sri Lanka. mathi@bms.ac.lk
3. Dr.Paramasivam Shanmugam, Smart Material Laboratory, Periyar University, India shanmugachem@gmail.com

**The Side Event FACS Innovation Science Project in PACCON2026
(Future Science Research Presentation for Junior researcher)
VDO Presentation and 3rd Science Projects in Schools Showcase
PACCON2026**

Chair: Prof. Dr. Supawan Tantayanon

Co-Chair: Assoc.Prof.Dr. Supakorn Boonyuen

The FACS Innovation Science Project Side Event, organized under the Federation of Asian Chemical Societies (FACS), was successfully conducted as part of PACCON2026. The event aimed to provide junior researchers from Thailand and across Asia with an international platform to present their scientific research and innovations through poster presentations and concise 3–5 minute video summaries. The project was implemented over the period from 25 December 2025 to 13 February 2026, with the final presentations and award sessions taking place on 13 February 2026.

Participation Summary

The event received strong participation from five countries, namely Thailand, Malaysia, the Philippines, Sri Lanka, and Japan, demonstrating its regional reach and international engagement. A total of 160 student projects were presented, consisting of 40 online video presentations and 120 onsite presentations. Among the online submissions, 24 projects received Gold awards, 16 received Silver awards, and 5 were granted Special Awards. For the onsite presentations, 45 projects were awarded Gold, 59 received Silver, and 16 received Bronze. This distribution reflects both the high quality of submissions and the active involvement of students across multiple countries.

Project Activities

The project was carried out in three main phases, beginning with the submission stage, during which students submitted their abstracts, posters, and short video presentations. This was followed by the evaluation phase, where all projects were carefully reviewed based on scientific merit, innovation, and clarity of presentation by qualified reviewers. The final phase consisted of onsite poster presentations and interactive question-and-answer sessions held during PACCON2026, culminating in the announcement of award recipients and recognition of outstanding projects.

Key Outcomes

The project successfully engaged 160 students in meaningful scientific presentation and exchange, contributing to the development of their communication skills, confidence, and critical thinking abilities. It strengthened international collaboration among participants from five countries and promoted awareness of research aligned with the United Nations Sustainable Development Goals (SDGs). Furthermore, the event enhanced the visibility and impact of FACS initiatives in supporting science education, innovation, and early-career researcher development in the Asia-Pacific region.

Financial Summary

The financial management of the project was successfully balanced, with total income and total expenditures both amounting to 150,250 THB. Major expenses included student scholarships totaling 60,000 THB, poster printing costs of 60,000 THB, and medal production expenses of 29,250 THB. The income was primarily supported through sponsorship contributions, including support from the Chemical Society of Thailand (CST), individual sponsors, and revenue generated from medal sales. This reflects effective financial planning and strong support from stakeholders.

Impact and Significance

The event played a significant role in creating an inclusive international platform for young scientists to present their research and exchange ideas. It encouraged innovation, interdisciplinary collaboration, and active participation in scientific discussions, while also strengthening regional cooperation in chemical sciences. The involvement of students from multiple countries highlights the importance of such initiatives in building capacity and fostering the next generation of scientists in alignment with FACS's mission.

Conclusion

In conclusion, the FACS Innovation Science Project Side Event at PACCON2026 was highly successful in achieving its objectives, with strong participation, effective knowledge exchange, and positive outcomes for all stakeholders involved. The presentation of 160 projects from five countries demonstrates the event's growing impact and sustainability as a platform for promoting scientific excellence and collaboration. The project serves as a valuable model for future FACS-supported activities aimed at nurturing young researchers and advancing science education across the region.

Online student/ VDO submission = 40 (gold 24 silver 16 special award 5)

Students presentation onsite = 120 (gold 45 silver 59 bronze 16)

Students from 5 countries

(Thailand, Malaysia, Philippines, Sri Lanka and Japan)

Total students presentation 160 projects.

S9 expense in PACCON2026

no.	item	income	Paid
1	Scholarship for 120 students x500 B		60,000.00
2	Sponsor from company	60,000.00	
3	Medal for onsite		29,250.00
4	Poster printing 120x500B		60,000.00
5	Medal selling	36,300.00	
6	Sponsor Prof. Siwaporn M.	10,000.00	
7	Sponsor Prof. Supakonr B.	10,000.00	
9	Sponsor CST	33,950.00	
	summary	150,250.00	150,250.00

Online results

file	country	name	School	contact	title	award	Certificate	video
1.T PC Patum Arisa-Karuki-Th	Thailand	Kazuki Nishijima, Kaho Takashima, Arsira Wongphooddee, Waipo P Kaveedumrongpatana, Sukanya Komkleang	Princess Chulabhorn Science High School Pathumthani		Synthesis and Study of Protein Content in Plant-Based Cheese Formulated from Obara and Nutritional Yeast	silver		
2.T PC Patum Nantun-Th	Thailand	Namfon Sakchai, Nannapat Ngawekudrua, Sukanya Klomkleang	Princess Chulabhorn Science High School Pathum Thani, Thailand	nannapat.2022@pcsp.ac.th	The development of functional jelly by incorporation of lotus stem powder and lotus flower pollen tea with honeyac jelly	silver		
3.T PC Patum Natthaya -Th	Thailand	Natthaya Kunpipit, Manasakorn Wiriyasunthornwong , Sukanya Komkleang, Janejira Phakawan and Chainarong Amornbunchornvej	Princess Chulabhorn Science High School Pathumthani		Innovative Pepsin-Enzyme Patch for Effective Keloid Treatment: A Molecular Bioinformatics Study on Pepsin Interaction	gold		
4.T PC Patum Pechaya-Th	Thailand	Mion Oga, Hana Matsuyama , Peeraya Siriphantana, Palida Pahlm, Sukanya Klomkleang	Tennouji High School attached Osaka Kyoriku University , Japan, Princess Chulabhorn Science High Schools Pathum Thani , Thailand	pechaya.2022@pcsp.ac.th	Extraction and Application of Natural Pigments from Thai and Japanese Flowers for Sustainable Watercolor Development	silver		
5.T PC Patum SETHAPON-Th	Thailand	Sethapon Prommanun, Tharatip Sawangpan, Sukanya Klomkleang, Chatchai Ponchio, Chartchai Changsen	Princess Chulabhorn Science High Schools Pathum Thani , Thailand	sethapon.prom@pcsp.ac.th , tharatip.sawangpan@pcsp.ac.th	Innovative Photo-Electrocatalytic Cell: for Sterilizing PVC Medical Devices	gold		
6.T PC Phisanulok Sriwanatchaya-Th Special Award 1	Thailand	Siwanatchaya Jantawong , Natnicha Surin , Wipa Arsingsamanan, Maliwan Nakkuntod , Anan Kenthao	Princess Chulabhorn Science High School Phisanulok 86 Moo 4, Makhamsung Sub-district, Muang District, Phisanulok, Thailand	sriwanatchaya.jantawong@pcsp.ac.th	Artificial and substrate development and environmental management for enhancing economic value in Golden apple (apple) aquaculture	gold ACS		
582 Hinata-JP	Japan	Erina Kayahashi	Meikai High School, Tsukuba, Japan	kayahashi.erin@meikai.ac.jp	A STUDY ON THE CHALLENGES AND SOLUTIONS FOR THE GLOBAL SPREAD OF CULTURED MEAT	silver		
391 Hinata-JP	Japan	Hinata Sakamoto	Meikai High School, Tsukuba, Japan	sakamoto.hinata@meikai.ac.jp	IMPROVING PLANT TOLERANCE TO TEMPERATURE STRESS USING HOT SPRING MICROORGANISMS	gold		
401 Mao-JP	Japan	Mao Matsuda	Meikai High School, Ibaraki, Japan	matsuda.mao@meikai.ac.jp	THE REDEFINITION OF THE VALUE OF MOVIE THEATERS AND THE POSSIBILITY OF COEXISTENCE IN THE RISE OF STREAMING PLATFORMS	silver		

77 PCPhitsanulok Nahathai-TH	Thailand	Nahathai Chuenkhiankhot , Theeraphat Aphimonboot, Pongsaphat Chantaramanee, Natpassorn Laonet	Princess Chulabhorn Science High School Phitsanulok 86 Moo 4, Makhamuang Sub-district, Muang District, Phitsanulok, Thailand	kunee99@gmail.com	COPD E-Nose : VOCs-based breath analysis using AI for early COPD screening	gold		
87 PCPhet Tanawan-TH	Thailand	Tanawan Jangrui and Nichabhat Navaphotakul, Pitsinee Kongsukon and Sunhajutha Tirangkhor	Princess Chulabhorn Science High School Phetchaburi		Extended Pythagorean Theorem Using Polygons	gold		
91 PC Lophuri Natticha-TH	Thailand	Natticha Udomsri, Thamonwan Aiamsaart, Wipawee Srihanon, Sophon Klomkiang	Princess Chulabhorn Science High School Lophuri, Thailand	Thamonwan2550@gmail.com	Magnifying image device with dual light source fluorescent microscopy technique	silver		
107 PCS Lophuri Thamonwan -TH	Thailand	Thamonwan Aiamsaart, Natticha Udomsri, Wipawee Srihanon, Sophon Klomkiang	Princess Chulabhorn Science High School Lophuri, Thailand	Thamonwan2550@gmail.com	Light phenomenon generator that produces Dark-field images for use with USB digital microscope	silver		
117 PCS Lophuri Natticha- TH	Thailand	Natticha Meeto, Parida Sudgla and Wipawee Srihanon	Princess Chulabhorn Science High School Lophuri Thailand	05238@gmail.com	Development of Chitosan and N,O- Carboxymethyl Chitosan Coating with Stearic Acid to Increase Amide Bond Formation and Transparency.	Gold		
127 SKR Achira-TH	Thailand	Achira Supangsarn, Apiwit Sitgruaytong, Nattawat Boonpanyamathasit, Supakorn Boonyuen and Ratchaphong Katerung	Saankulab Witayalai Rangsit School (SKR), 2617, Tambon Khlong Si, Amphoe Khlong Luang, Pathum Thani 12120, Thailand Department of Home Economics, Faculty of Home Economics Technology, Rajamangala University of Technology	ykatung@gmail.com	Alginate Microencapsulation of Roselle, Monk Fruit, and Bamboo Leaf Extracts for Improved Stability and Antioxidant Preservation	Gold		
137 SKR Apiwit-TH	Thailand	Apiwit Sitgruaytong, Achira Supangsarn, Nattawat Boonpanyamathasit, Supakorn Boonyuen	Saankulab Witayalai Rangsit School (SKR), 2617, Tambon Khlong Si, Amphoe Khlong Luang, Pathum Thani 12120, Thailand	ykatung@gmail.com	Magnetically Separable Nano- Ferrite/Graphene Oxide Encapsulated in Alginate Beads for Sustainable Heavy- Metal Adsorption	silver		
147 SKR Nattawat-TH Special Award 2	Thailand	Nattawat Boonpanyamathasit, Apiwit Sitgruaytong, Achira Supangsarn, Supakorn Boonyuen	Saankulab Witayalai Rangsit School (SKR), 2617, Tambon Khlong Si, Amphoe Khlong Luang, Pathum Thani 12120, Thailand	ykatung@gmail.com	Magnetic Carbon Dot Hydrogel for Tetracycline Detection and Removal	gold ACS		
157 Showibury Napapim- TH	Thailand	Napapim Yugala, Chanita Jarussophon, Nattawat Boonpanyamathasit, Supakorn Boonyuen	Showibury International School, 1922 Charoen Kruang Road, Bangkok, Thailand	ykatung@gmail.com	Plant-Derived Nano-Chromophores as Eco-Safe Alternatives to Heavy-Metal Pigments	gold		
167 Hanew Adhis-TH Special Award 3	Thailand	Adhis Ammarapala, Atchariya Pitintharangu, Supakorn Boonyuen,	Faculty of Science and Technology, Thammasat University, Amphoe Khlong Luang, Pathum Thani	ykatung@gmail.com	Efficient Photocatalytic Degradation Using Rod-Shaped ZnO/CuO Composites Synthesized from Macadamia Nut Shell Extract	gold ACS		
177 SPP Anamarin-TH	Thailand	Anamarin Terurittikul Arist Mahakitsiri	Saifi Prasarnmit Demonstration School (Secondary), Bangkok, Thailand	023564@gmail.com 027485@gmail.com	THE ADAPTIVE HEATSHIELD	silver		

18T SPP Inchalita-TH	Thailand	Inchalita Supab, Shalene Sankhagowit	Saifi Prasarnmit Demonstration School (Secondary), Bangkok, Thailand	ip190627@student.spu.ac.th	Investigating the Effectiveness of Different Concentrations of Sodium Fluoride in Preventing Cavities	silver		
19T SPP Supanan-TH	Thailand	Supanan Wongyuen, Sahiba Jaggi	Saifi Prasarnmit Demonstration School (Secondary), Bangkok, Thailand	ip200769@student.spu.ac.th	Evaluation of antimicrobial properties of spices from the Zingiberaceae family	silver		
20T BU-Wannisa-TH	Thailand	Wannisa Sirinu, Piyanin Maneesai, Darunee Sukchit, Saisamorn Lumlong, Malee Prajuabsuk, Chan Inntam, Supakorn Boonyuen,	Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Ubon Ratchathani University, Ubon Ratchathani, 34190, Thailand	pcornpan.p@ubon.ac.th	Transesterification of Palm Oil into Biodiesel over Geopolymer Derived from Power Plant Fly Ash as a Green and Environmentally Friendly Catalyst	gold		
21T BU-Sawatdee Aika-TH-IP	Thailand	Yuma Sawada, Aika Ono, Shuta Takenaka, Thimpika Pornprom, Bongkochawan Phakamwong, Noriyuki Kurita, Pornpan Pungpo	Department of Computer Science and Engineering, Toyohashi University of Technology, Aichi, 441-8580, Japan	pcornpan.p@ubon.ac.th	Computational Study of Binding Interactions Between CYP4A1 and Potential Inhibitors	silver		
22T BU-Sarinya-TH	Thailand	Sarinya Thowat, Aphinya Jampathong, Khemmisara sawatdee, Darunee Sukchit, Bongkochawan Pakamwong, Thimpika	Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Ubon Ratchathani University, Ubon Ratchathani, 34190, Thailand	pcornpan.p@ubon.ac.th	Green synthesis of Silver nanoparticles using leaves extract from Oroxylum indicum and its Antibacterial Activity	gold		
23T Bu-Piyanin-TH	Thailand	Piyanin Maneesai, Wannisa Sirinul, Darunee Sukchit, Saisamorn Lumlong, Malee Prajuabsuk, Chan Inntam, Supakorn Boonyuen,	Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Ubon Ratchathani University, Ubon Ratchathani, 34190, Thailand	pcornpan.p@ubon.ac.th	Synthesis of ZSM-5 Zeolite Using Silica Extracted from Sugarcane Bagasse Ash and Its Application in the Adsorption of Crystal Violet Dye and Pb ²⁺ from Aqueous Solutions	gold		
24T BU-Borayapa-TH	Thailand	Benyapa Punthidate, Chaiya Promiso, Supakorn Boonyuen, Darunee Sukchit, Pornpan Pungpo	I Horwang School, Chatechak District, Bangkok, 10900, Thailand	pcornpan.p@ubon.ac.th	Waste Conversion of Sugarcane Bagasse Ash into Zeolite A as a Cost-Effective Adsorbent for the Removal of Brilliant Green Dye from Aqueous Solutions	gold		
25T Bu-Aphinya-TH	Thailand	Aphinya Jampathong, Sarinya Thowat, Khemmisara Sawatdee, Darunee Sukchit, Bongkochawan Pakamwong, Thimpika	Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Ubon Ratchathani University, Ubon Ratchathani, 34190, Thailand	pcornpan.p@ubon.ac.th	Eco-friendly synthesis of Silver nanoparticles using Arecaceae catechu L. extract and its antibacterial properties	gold		
26T TU Kritaboon-TH	Thailand	Krittaboon Changsan, Phoorawich Jivittayanukul, Naruesorn Yongsoon, Pacharapon Jearanaiwiwat and Kittipong Chainok	Science Classroom in University-Affiliated School Projects (SGUS), Suankularb Witayalai Rangsit School, Pathum Thani 12120, Thailand	kritita.ac.th	A Green Nanoporous Magnesium-Formate based Metal-Organic Framework synthesized from Industrial Metal Waste for CO ₂ Capture	gold		
27T TU Kritithi-TH	Thailand	Krittithi Natpinit, Vito Sripanya, Pattarapol Meesang, Pacharapon Jiaranaiwiwat, Kittipong Chainok	Science Classroom in University-Affiliated School Projects (SGUS), Suankularb Witayalai Rangsit School, Pathum Thani 12120, Thailand	kritita.ac.th	Synthesis, Characterization, and Carbon Dioxide Adsorption Properties of Cobalt-Formate Metal-Organic Frameworks Derived from Electronic Waste	gold		

28T TU Nongnaphat-TH	Thailand	Nongnaphat Buakhajorn, Atimapon Suanprang, Kulwadee Ponanunrirk, Kittipong Chainok	Thammasat University Research Unit in Multifunction Crystalline Materials and Applications (TU-MCMA), Faculty of Science and Technology Thammasat University, Thailand	ku@tu.ac.th	Supramolecular Structure of Schiff Base Nickel(II) Thiocyanate Complex	silver		
29S Agrani-SR	Sri Lanka	Agrani Uththama Perera, Mathi Vathani Kandiah	Faculty of Life and Medical Sciences, Business Management School (BMS) Campus, Colombo 00600, Sri Lanka	agraniperera@gmail.com , mathi@bms.ac.lk	Green Synthesis and Characterization of Carissa-Derived Silver Nanoparticles with Enhanced Antioxidant Activity	silver		
30S Beneli-SR	Sri Lanka	Beneli Gunaratne, Mathivathani Kandiah, and Ominda Perera	Faculty of Life and Medical Sciences, Business Management School (BMS) Campus, Colombo 00600, Sri Lanka	mathivathani@bms.ac.lk	Detection of Melamine Using Colorimetric Silver Nanoparticles	gold		
31S Yukthika-SR	Sri Lanka	Yukthika Anthony, Mathivathani Kandiah, Beneli Gunaratne and Ominda Perera	Faculty of Life and Medical Sciences, Business Management School (BMS) Campus, Colombo 00600, Sri Lanka	mathivathani@bms.ac.lk , alexia.yukthika@bms.ac.lk	Eco-Friendly Silver Nanoparticle Synthesis from Dillenia retusa for Catalytic Reduction of Para-Nitrophenol	gold		
32P Emami-Phi	Philippines	Wycoco. E. J. W., Lazaro S. E., Quitos L.S., Paragas D.S.	Department of Chemistry, college of Science Nanotechnology R&D Facility, University Research program office, Central Luzon University, Science City of Muna, 3120, Nueva Ecija Philippines.	wycoco@clu.edu.ph	Multivariate Optimization of AgNPs Synthesis from Larrea tridentata Species Leaf Extract Based on UV-Vis Spectroscopy and Principle Component Analysis	silver		
33M Chai-Malay	Malaysia	Chai Jia Xin, Alvin Lim Teik Zheng	Department of Science and Technology, Faculty of Humanities, Management and Science, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia, Institute of EcoScience Borneo, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia	alvinho@pm.edu.my	Photocatalytic Degradation of Tetracycline Using MnFeO ₄ /Biochar Composite	gold		
34M Malissa-Malay	Malaysia	Melissa Alexander Maran, Alvin Lim Zheng, Tan Hui Yan, Shahrl Razid Sabini, Tan Kr Ban, Abdul Halim Abdullah, Supakorn Boonyuen, Yoshito Andou	Department of Science and Technology, Faculty of Humanities, Management and Science, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia, Institute of EcoScience Borneo, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia	alvinho@pm.edu.my	Evaluation of Hydrothermally Synthesized Fe-Doped BiVO ₄ for Photocatalytic Activity under Low-Intensity UV irradiation	gold		
35M Nadya-Malay Special Award 4	Malaysia	Siti Nurfaatin Nadya, Alvin Lim Teik Zheng*	Department of Science and Technology, Faculty of Humanities, Management and Science, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia Institute of EcoScience Borneo, Universiti Putra Malaysia Sarawak, Bintulu 97008,	alvinho@pm.edu.my	One-Pot Hydrothermal Synthesis of BiVO ₄ -g-C ₃ N ₄ Composite for Efficient Photocatalytic Degradation of Tetracycline	gold ACS		
36M Sriniva-Malay Special Award 5	Malaysia	Sriniva Letchiminan, Alvin Lim Teik Zheng	Department of Science and Technology, Faculty of Humanities, Management and Science, Universiti Putra Malaysia Sarawak, Bintulu 97008, Sarawak, Malaysia Institute of EcoScience Borneo, Universiti Putra Malaysia Sarawak, Bintulu 97008,	alvinho@pm.edu.my	CARBONIZATION OF KOH-ACTIVATED DUCKWEED-DERIVED BIOCHAR FOR METHYLENE BLUE REMO	gold ACS		
37J Chitose-JP	Japan	Chitose Yajima	Meikai High School, Tsukuba, Japan	k46yajima@sd.meikai.ac.jp	A STUDY OF DESIGNING A NEW ENZYME TO UTILIZE INSOLUBLE PHOSPHORIC ACID IN ANDOSOL AND VISUALIZING ITS 3D STRUCTURE USING ALPHAFOLD-MODELLER	silver		

Pictures of 1st side event science project ICCE2024 (70 presentations)



Picture of 2nd side event science project ACC2025 (105 presentations)



Picture of 3rd Side event science project FACS-PACCON 2026 (160 presentations)







Project Submission Form

Any individual or group can submit a project, with or without current affiliation with an FACS body. Projects can be submitted at any time. This form should be completed with a word processor and submitted as a doc by e-mail to <secretariat general, chemistrytu@gmail.com>. Please do not remove section headers and answer all questions; indicate *NA* when a question does not apply to the proposal.

or administrative use only - Submitted __Supakorn Boonyuen; # __25 December 2025__

Date

25 December 2025

Project Title

Side Event FACS Innovation Science Project in PACCON2026
(Future Science Research Presentation for Junior researcher)

Series Title (if applicable)

1. Abstract poster and short video presentation submission
2. Selection of the leading qualify works (from VDO clips of the designed experiments)
3. Award the qualify work and announce in PACCON2026 conference (13 February 2026)

Task Group Chair (include address and e-mail)

Assoc. Prof. Dr. Supakorn Boonyuen, Department of Chemistry, Thammasat University, Thailand and Chemical Society of Thailand. chemistrytu@gmail.com

Task Group Members (include address and e-mail)

1. Dr. Alvin Lim Teik Zheng, Institute of Ecoscience Borneo, Universiti Putra Malaysia Sarawak, 97008, Bintulu, Sarawak, Malaysia, alvinltz@upm.edu.my
2. Dr Mathi Kandiah, Faculty of Life and Medical Sciences, BMS University, Sri Lanka. mathi@bms.ac.lk
3. Dr.Paramasivam Shanmugam, Smart Material Laboratory, Periyar University, India shanmugachem@gmail.com

Name of the person submitting this form *if not the Task Group Chair* (include address and email)

Objectives and Rationale (This should summarize the principal objectives and rationale, and the intended outcomes; see *Guidelines*) (<100 words)

The FACS Innovation Science Project Side Event at PACCON2026 aims to provide junior researchers from Thailand and across Asia with an international platform to present their scientific research and innovations. Through poster presentations and concise 3–5 minute video summaries, participants will develop scientific communication skills, exchange ideas, and engage with the global scientific community. The event fosters curiosity, creativity, and confidence while encouraging young scientists to apply their work toward real-world impact and the United Nations Sustainable Development Goals (SDGs). Outstanding projects will be recognized through prestigious awards and certificates, motivating continued excellence in science.

Description (approx. 250 words, including relevance to FACS)

The FACS Innovation Science Project Side Event at PACCON2026 is designed to nurture and showcase the creativity, research capacity, and scientific communication skills of junior researchers from Thailand and across Asia. As science education increasingly emphasizes innovation, sustainability, and global collaboration, young researchers need accessible opportunities to present their work beyond the classroom and engage with the international scientific community. This event provides a structured platform for students to present their research, experiments, and innovative solutions through poster presentations and concise 3–5 minute video summaries. These formats encourage clarity of thought, effective communication, and confidence in sharing scientific ideas with diverse audiences, including scientists, educators, and peers from more than 30 countries participating in PACCON2026. Meaningful discussions and feedback sessions further enhance learning and professional development. Aligned with the mission of the Federation of Asian Chemical Societies (FACS), the event promotes excellence in chemical sciences, interdisciplinary research, and capacity building among early-career scientists in the Asia–Pacific region. Special emphasis is placed on projects that address real-world challenges and contribute to the United Nations Sustainable Development Goals (SDGs), highlighting the role of science in sustainable development and societal impact. Outstanding projects will be recognized with Gold, Silver, and Bronze awards, along with certificates of recognition from FACS, the Chemical Society of Thailand (CST), and the ACS Thailand Chapter. These recognitions not only celebrate academic achievement but also motivate continued engagement in scientific research. Overall, the event serves as both a scientific forum and a celebration of the next generation of innovators, strengthening regional collaboration and supporting FACS's commitment to advancing science education and research.

Intended Publications [*Any website/webpage intended to be on the FACS platform is required to be in WordPress and for branding, hosting, and compatibility*]

Other: A report published to the EXCO members

Intended Stakeholders (Give details of the intended stakeholders and interest groups, and how they will benefit from your Project Objectives. See *Guidelines*)

1. Junior Researchers and Students (approximately 50–60 participants): Junior researchers from Thailand and across Asia will benefit from an international platform to present their research, experiments, and innovations. Participation will enhance their scientific communication skills, confidence, and critical thinking through poster presentations, short video summaries, and discussions with international scientists. Recognition through awards and certificates will further motivate academic excellence and continued engagement in science.

2. Teachers and Academic Mentors: Secondary school teachers, university lecturers, and research mentors will benefit by gaining insights into emerging student research topics, innovative teaching approaches, and effective methods for guiding young researchers. Engagement in the event supports mentorship, curriculum enrichment, and the development of future research collaborations.

3. Scientific and Professional Organizations (FACS, CST, ACS Thailand Chapter): These organizations will benefit from fulfilling their missions to promote chemical sciences, support capacity building, and nurture the next generation of scientists in the Asia–Pacific region. The event

strengthens regional networks, increases visibility of FACS initiatives, and aligns scientific activities with the United Nations Sustainable Development Goals (SDGs).

4. Scientific Community and Conference Participants (30+ countries): Researchers, educators, and professionals attending PACCON2026 will benefit from exposure to fresh perspectives and innovative ideas presented by young scientists. The event encourages interdisciplinary exchange, knowledge sharing, and collaboration across borders.

5. Society and Policy Stakeholders: By highlighting student-led research addressing real-world challenges and sustainability, the project contributes to broader societal awareness of science-driven solutions. It supports long-term national and regional goals in science education, innovation, and sustainable development.

Dissemination Plan

(Indicate how the results of this Project will be communicated to target stakeholders and, if relevant (*e.g.* for FACS Recommendations))

1. Online Showcase and Digital Repository: A dedicated webpage will be developed on the PACCON2026 and/or Chemical Society of Thailand (CST) platforms to host accepted posters, 3–5 minute video presentations, and project summaries from the FACS Innovation Science Project Side Event.

2. Conference Presentations and Live Engagement: Project outcomes will be disseminated through poster sessions, video screenings, and moderated discussions during PACCON2026. These activities will facilitate direct engagement between junior researchers and international scientists, educators, and policymakers, promoting dialogue and knowledge exchange across disciplines and regions.

3. Recognition and Award Dissemination: Outstanding projects will be highlighted through award announcements, certificates, and featured presentations. Award-winning projects will be promoted through FACS, CST, and ACS Thailand Chapter communication channels, including newsletters, websites, and social media, increasing visibility and motivation for future participants.

4. Collaboration with FACS Member Societies and Partners: Results and best practices from the event will be shared with FACS member societies and relevant international partners. Summary reports and recommendations may be presented at FACS meetings and regional conferences to support future initiatives in science education, innovation, and early-career researcher development.

5. Post-Event Evaluation and Continuous Improvement: Feedback will be collected from participants, mentors, and reviewers to assess the effectiveness of the event. The evaluation results will inform improvements for future editions and help shape recommendations for FACS-supported activities focused on nurturing young scientists and promoting SDG-aligned research.

Time Frame

Planned start date: December 2025

Duration of project: December 2025 – February 2026

Milestones

(Indicate the location, duration and approximate date of Task Group meetings, workshops, conference presentations, etc. and the target dates for circulation of drafts and submission of final report. See *Guidelines*)

The task group is scheduled to hold a Zoom meeting every weeks once the project receives approval from FACS, expected by January 2026. Subsequently, during the project's duration, they will convene for a Zoom meeting.

Budget
Expected Expenses

Item	Unit Cost	Quantity	Total (THB)
Poster printing	300 THB / poster	60 posters	18,000
Award medals	100 THB / medal	60 medals	6,000
(Gold, Silver, Bronze, participation)			
System management and promotion (online platform, coordination, publicity)			2,000
Evaluation system (review process, scoring platform, certificates preparation)			4,000
Total Expected Expenses			- 30,000 THB
Companies support			+ 30,000 THB

Relevant FACS Bodies
(please tick the applicable boxes)

Tick (√)	Physical and Biophysical
	Inorganic
	Organic and Biomolecular
	Polymer
	Analytical
	Environmental
	Human Health
	Nomenclature
√	Green Chemistry for Sustainable Development
	Cheminformatic
√	Chemistry Education
	Chemistry and Industry
√	Others(indicate)...all field related chemistry....

Suggested Referees external to FACS

(at least 3 names, including e-mail and postal addresses and their expertise related to this project)

1. Prof. Dr. Siwaporn Meejoo Smith, Mahidol University, Thailand, siwaporn.meejoo@gmail.com
2. Prof. Dr. Yoshito Ando, Fukuoka University, Japan, yando@life.kyutech.ac.jp
3. Prof. Dr. Braja Gopal Bag Faculty, Vidyasagar University, India, braja@mail.vidyasagar.ac.in

The example of submission works (sent to chemistrytu@gmail.com)

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