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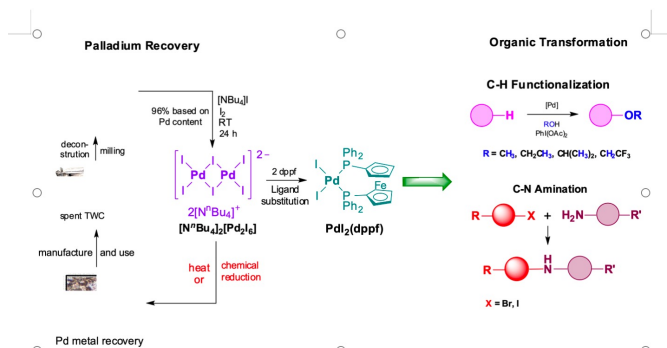
Jabatan Penyelidikan & Inovasi (JPI)
Universiti Teknologi MARA



The 3rd Commonwealth Chemistry Congress

ChM. Dr. Khairil Anuar Jantan

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The 3rd Commonwealth Chemistry Congress (CCC 2025) concluded its four-day event at the Protea by Marriott Hotel Stellenbosch in South Africa, where over 200 chemists and researchers, including more than 100 early career chemists from 34 Commonwealth countries, gathered to advance the United Nations Sustainable Development Goals (SDGs) through chemistry. The event aimed to strengthen scientific capacity, inspire the role of chemical sciences in society and policy, and celebrate achievements in chemistry research and education.

Among the distinguished participants Malaysia's delegation stood out, led by the Institute Kimia Malaysia (IKM). Following a rigorous national nomination process, IKM selected three promising young chemists to represent Malaysia: Dr. Khairil Anuar bin Jantan from the Faculty of Applied Sciences at UiTM, Dr. Muhammad Ameerullah bin Sahudin from the Department of Chemistry at UM, and Dr. Siti Fatimah Nur binti Abdul Aziz from the School of Chemical Sciences at USM. The delegation was accompanied by IKM President Datuk Dr. Soon Ting Kueh, Professor Yang Farina binti Abdul Aziz, an Executive Board Member of Commonwealth Chemistry, and Associate Professor Dr. Lee Hwei Voon, a keynote speaker.

Dr. Khairil Anuar bin Jantan's selection to represent Malaysia at this prestigious event is a testament to his groundbreaking research. His project, titled "From Waste to Wander: Palladium Recovery Product Catalyze C-H Functionalization and C-N Bond Formation," has garnered significant attention. The project focuses on palladium-catalyzed transformations, which are crucial in industrial activities, particularly in the fields of fine chemicals and pharmaceuticals.



Delegates from around the globe at CCC 2025

Traditional palladium-based catalysts are derived from environmentally damaging mining practices. Dr. Jantan's innovative approach involves recovering palladium through an energy-efficient, green process from spent three-way catalytic converters, a form of urban mining. This method not only reduces the environmental impact of palladium mining but also provides a highly efficient catalyst for essential chemical reactions, including C-H functionalization and C-N amination.

By utilizing readily available and inexpensive reagents, Dr. Jantan's research aligns with the United Nations Sustainable Development Goals 7 (Affordable and Clean Energy) and 12 (Responsible Consumption and Production). His work demonstrates a commitment to sustainability and innovation, setting a new standard for green chemistry.

Dr. Jantan's participation and presentation at the CCC 2025 is a significant milestone for Malaysia and UiTM. It highlights the global recognition of Malaysian scientific achievements and places UiTM on the world map. His work not only contributes to the field of chemistry but also serves as an inspiration for young scientists worldwide. As the CCC 2025 draws to a close, the Malaysian delegation returns home with a renewed sense of purpose and a global platform to continue their groundbreaking work. The future of chemistry is bright, and Malaysia is at the forefront of this scientific revolution.



Dr. Khairil Anuar bin Jantan's selection to represent Malaysia at the 3rd Commonwealth Chemistry Congress (CCC 2025) is a remarkable achievement, underscoring his innovative research in green chemistry. His project, "From Waste to Wander: Palladium Recovery Product Catalyze C-H Functionalization and C-N Bond Formation," has garnered significant attention for its potential to revolutionize industrial chemistry.

Traditional palladium catalysts, widely used in fine chemicals and pharmaceuticals, are derived from environmentally damaging mining practices. Dr. Jantan's groundbreaking approach involves recovering palladium from spent three-way catalytic converters through an energy-efficient, green process known as urban mining. This method not only mitigates the environmental impact of palladium mining but also produces a highly efficient catalyst for essential chemical reactions, including C-H functionalization and C-N amination.

By using readily available and inexpensive reagents, Dr. Jantan's research aligns with the United Nations Sustainable Development Goals 7 (Affordable and Clean Energy) and 12 (Responsible Consumption and Production). His work exemplifies a commitment to sustainability and innovation, setting a new standard for green chemistry and inspiring future research in this critical field.

Dr. Jantan's participation in CCC 2025 highlights the global recognition of Malaysian scientific excellence and places UiTM on the world map. His contributions to sustainable chemistry serve as a beacon for young scientists worldwide, demonstrating that innovation and environmental stewardship can go hand in hand.



Malaysia Delegate to 3rd Commonwealth Chemistry Congress (CCC 2025)

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