

## ITEX 2021 - GOLD MEDAL



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ITEX is a prestigious international exhibition of innovations held annually, organised by the Malaysian Invention and Design Society (MINDS) and C.I.S Network Sdn. Bhd. that provide the platform and market for the latest innovations and ideas globally.

Prof. Dr. Janet Lim Hong Ngee from the Faculty of Science won a gold medal for her innovation called GrafinTok™. It provides the benefits of patented graphene technology for engine oil. It is compatible with all types of vehicles. It revives cars by unleashing dormant horsepower, providing bulletproof protection, extending oil life, providing cooler engine and saving fuel. It is able to improve engine combustion efficiency, and revive sluggish engine with reduction in noise and vibration for a smoother, silent drive.



**Figure 1:** GrafinTok™ displayed at ITEX 2021.



**Figure 2:** The gold medal won for her innovation at ITEX 2021.

Her research on graphene spans for over a decade and has been employed for various applications, one of which is a lubricant for transportation. She also utilizes graphene for energy storage devices such as supercapacitor and battery, sensor, glove, drug delivery, adsorbent and many more. She won the Research Entrepreneur Award of the Malaysia Commercialization Year 2018 organized by MOSTI, then MESTECC, for her research in graphene.

GO Advanced Solutions Sdn. Bhd. licensed the lubricant technology through Putra Science Park. The startup company was incorporated under the Innohub initiative.



**Figure 3:** Prof. Dr. Janet (5th from left) with her colleagues and organizers.



**Figure 4:** Prof. Dr. Janet (2nd from right) with her colleagues and Deputy Vice-Chancellor (Research and Innovation), Prof. Dr. Nazamid Saari (4th from left).



**Figure 5:** Prof. Dr. Janet with GrafinTok™.