



## CONFERENCE ATTENDANCE REPORT

Name	: Dr Ibrahim bin Yakub
Faculty/Institute/Centre	: Faculty of Engineering
Conference Title	: The 2nd International Conference on Advanced Science and Engineering 2023 (ICASE 2023)
Title of Paper/Presentation	: Aqueous-phase Reforming of Glycerol using Coconut Shell Activated Carbon as the Catalyst Support
Conference Venue & Date	: Rainbow Paradise Beach Resort, Penang, Malaysia 25-26 Nov 2023
Conference Organised by	: WAWM Academy and Persatuan Alumni Universiti Malaysia Perlis
Participation Sponsored by	: FRGS/1/2020/WAB02/UNIMAS/03/1

1. Explain the new knowledge (e.g. theories/ concepts/ issues/ research methods/ techniques) gained from the conference.
  - a. The current research trends especially the factors influencing synthesis of Ferrate(VI) material (for energy harvesting application) via electrochemical which are solution concentration, temperature and power supplied.
  - b. Corrosion can be mitigated by reducing oil temperature, elemental Sulfur concentration, and increasing the aging time.
  - c. Starch-based bioplastic film can be reinforced with alkaline treated lemongrass fibre and lemongrass essential oil for the barrier of transformer mineral oil.
  - d. Banana peels and pith can be combined as dual natural plant-based coagulants for turbidity removal.
  - e. Adsorption Isotherm of Carbon Dioxide and Methane can be adsorbed using nickel gallate metal-organic framework.
  - f. Nickel based catalyst can be used for dry reforming of biogas.

2. Explain the feedback received on your presentation (Please indicate duration, Q&A and other relevant discussion).

One question asked on the significance of reporting  $P/dP$  in aqueous reaction which is rarely found in the literature. For me this parameter could indicate the state at which the system is operating, liquid or vapor. When knowing it is in liquid state, we know the reaction proceeds in aqueous path.