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International Conference on Environmental and Biological Science (ICEBS 2014)

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Associate Professor Dr. Jedol Dayou delivered his speech with the title of 'An Accurate and Cost Effective Method for Ground based Measurement of Aerosol Optical Depth' in the International Conference on Environmental and Biological Sciences (ICEBS 2014) as a keynote speaker. This conference was held in Mercure Krabi Deevana and had been cordially attended by researchers, engineers, academicians as well as industrial professionals from all over the world to present their research, findings and development. The research areas presented included global warming, ozone layer depletion, carbon capture and storage, biofuels, integrated ecosystems management, biological sciences and environmental.

Dr. Jedol presented his accurate and cost effective method in the measurement of atmospheric aerosol by introducing an objective algorithm for data selection that closely imitates the high altitude clear-sky condition for measurement taken at low altitudes. This method has overcome the logistic and financial problems which have arisen in the conventional monitoring methods using satellite, airborne and LIDAR. For this purpose, Perez and Du Mortier sky classification are used and combined with a statistical filter to ensure ideal clear sky data are selected. Cross reference with i-SMARTS model in aerosol optical depth value shows a perfect agreement with low uncertainty and comparable to most other studies that performed at high altitude.

Dr. Chee Fuei Pien, who also attended the same conference, chaired one parallel session and presented an oral paper on 'Improving Power Output Prediction from Ocean Salinity and Temperature Energy Converter using Viscosity Model'.