

# COMSOL Workshop on Modelling Renewable Energy Sources

**Organized By**

**Department of Physics, UWI, T&T and Comsol Inc., USA**

Thursday Oct. 29<sup>th</sup> 2015, 8:30 am-4:00 pm  
Conference Room, First Floor, Dean Office, Faculty of Science & Technology  
The University of the West Indies, St. Augustine.

## **Workshop Description**

To reduce carbon footprint and ensure reliable supply of electricity within the country, we have to promote the use of various renewable energy sources like solar panels, wind turbines and fuel cells etc. and their integration with the existing electrical grid to make the grid Smart. However effective utilization of these distributed renewable energy sources and their integration poses many challenges. The key problem is how to model these renewable energy sources. Very complicated forecasting and scheduling is needed for wind and solar renewables as they are intermittent and fluctuant in nature so there is a need to understand and explore both long term and short term renewable source patterns and likely behaviour. Comsol Multiphysics is one of the major modelling and simulation tool using which one can design and predict the behaviour of various renewable energy sources.

## **Workshop Schedule:**

8.30 – 9am: - Registration

9-10am: - **Introduction to COMSOL Multiphysics and Application Builder**

10am-noon: - **Modelling of Renewable Energy Sources Using COMSOL**

Noon-1pm: - Lunch

1 – 4pm: - **Modelling of Renewable Energy Sources Using COMSOL (cont.)**

For more information, please contact:

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