

# **Agenda**

## **Focus Group for Instructors Workshop**

### **Teaching the Mathematics of Renewable Energy**

**November 19<sup>th</sup> (Saturday), 9:00 AM to 12:00 PM**

**Cuesta College, Building 3400, Room 3406**

**Introduction: 9:00 – 9:20**

Basic Overview

Pre-test

**Lecture 1: 9:20 – 10:30**

Renewable Energy Topic: Wind Motion and the Coriolis “Force” (Effect)

Technical Math Concept: Sine and Cosine Functions

MATLAB Features:

Starting MATLAB, Commands, Files, Interactive Sessions,

Variables and Arrays, Operations and Predefined Functions.

**Lecture 2: 10:30 – 11:40**

Renewable Energy Topic: Wind Velocity Profile

Technical Math Concept: Exponential and Logarithmic Functions

MATLAB Features:

Operations on Arrays, Basic Plotting and Overlay (Multiple) Plots,

M-Files: Script Files and User Defined Functions.

Exercises: Overlay Plot, User Defined Function

**Summary: 11:40 – 12:00**

Discussion of Methodology

Post-test