

# EDUCATOR PROFESSIONAL DEVELOPMENT

## Modeling and Simulation Workshop for Middle and High School Math & Science Teachers

June 23 – 26, 2014 at NASA Langley Research Center in Hampton, VA

### What?

- ◆ NASA Langley Research Center and Longwood University are sponsoring four (4) days of educational professional development for math and science teachers (grades 6-12) in the fundamentals of modeling and simulation

### Why this workshop?

- ◆ Modeling and simulation (MODSIM) (1) is an equal and indispensable partner, along with theory and experiment, in the quest for enhanced technological innovation; (2) holds great promise for the pervasive advancement of knowledge and understanding through discovery; and (3) is rapidly becoming a “powerful and ubiquitous tool” for engineers and scientists. Instructionally, MODSIM supports the development of basic skills, higher-order thinking and concepts, creativity, and independent and collaborative work.

### When and where?

- ◆ June 23-26, 2014, 8:00 AM – 5:00 PM each day
- ◆ Education Building (1216), Room 201, NASA Langley Research Center, Hampton, VA 23681

### Why attend? Participants will:

- ◆ Learn the basics of MODSIM
- ◆ Develop an appreciation for the importance of engineering and science-based MODSIM
- ◆ Use the acquired knowledge to infuse MODSIM into existing math and science courses
- ◆ Experience what MODSIM professionals do through presentations, demonstrations, site visits, and experiments
- ◆ Connect and interact with engineers, scientists, and technologists who use MODSIM
- ◆ Have direct contact with a NASA education specialist during and after the workshop

### What is included? Twelve educators will:

- ◆ Participate for free; lodging is provided
- ◆ Receive a \$400 stipend once you develop a lesson aligned with VA Science SOL and NGSS
- ◆ Earn 45 recertification points

### Requirements

- ◆ NASA Langley Research Center is a secure facility. Access is limited to US citizens with a government- issued ID (e.g., VA driver's license).
- ◆ Be a middle or high school math and/or science teacher
- ◆ Bring a laptop
- ◆ Drive to and from NASA Langley each day from local hotel

### Questions?

- ◆ Contact Dr. Manorama “Mano” Talaiver , Director, Institute for Teaching through Technology and Innovative Practices (ITTIP), Longwood University, 606 Broad Street, Suite C, P.O. Box 794, South Boston, VA 24592, Telephone: 434.517.0717  
Email: [manotalaiver@gmail.com](mailto:manotalaiver@gmail.com)

### How to register?

- ◆ Apply on-line <https://www.surveymonkey.com/s/ModSim2014> ITTIP