Math Machines 2013 Workshop:
"Connecting Math, Science and Technology"

5-Day Institute: August 5-9, 2013 (Monday through Friday, 8:00 – 4:00)
One-Day Follow-Up: Saturday, Nov. 16th, 2013 (tentative date)
Mariemont High School -- Cincinnati, Ohio

Teachers of mathematics, science and technology are invited to receive and learn to use a *Math Machines* Function Plane with a Vernier SensorDAQ interface and all necessary software. For additional information about the hardware and software, see the videos on "Controlling a Laser," "Earthquake," "Penny Pitcher" and "Color Functions"

Who Should Participate?

Applicants should be secondary school or introductory college teachers of Math, Science, Engineering or Technology who want to use authentic, real-world activities in their classrooms. Preference will be given to teams of teachers who can continue to collaborate during the school year. **No prior experience with programming or electronics is required!**

What Do Participants Provide?

Participants must bring a Windows laptop computer (XP or later) on which they can install the programs necessary to operate the Math Machines. Participants wishing to control the Function Plane with a calculator must also bring a TI-83 or TI-84 (any version) and either a CBL2 or a LabPro interface.

What Is the Cost?

Thanks to support from the **Duke Energy Foundation**, faculty teaching in Adams, Brown, Butler, Clermont, Hamilton or Warren Counties of Ohio can participate without charge. The registration fee for faculty from outside this 6-county area is $250—far less than the cost of the equipment alone. Travel, lodging and meals (including lunch) are the responsibility of participants or their school. No payment is needed to apply. Registration fees are due 3 weeks after you receive notice of acceptance.

Can I Earn Credit for the Workshop?

Participants have the option of receiving 3 semester hours of graduate credit through Ashland University at the reduced cost of $525 ($175 /credit hour). A representative of Ashland University will be present on the second day of the workshop to process course registration and tuition payment.

Workshop Facilitators:

Fred Thomas, Physical Science, Learning with Math Machines
Robert Chaney, Mathematics, Sinclair Community College
Jeff Radloff, local host, Mariemont High School

For additional information, contact:

Dr. Fred Thomas
Email: fred.thomas@mathmachines.net

Application Form

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Name: _____

School: _____ Position: _____

School Address: _____

    City, State & Zip code _____

Home Address: _____

    City, State & Zip code _____

School Phone: _____ Home Phone: _____

School E-mail: _____ Home E-mail: _____

If you are applying as part of a team, list the names of the other team members below.
(Each individual must submit a separate application form.)

_____

What is your primary teaching area? ☐ Mathematics ☐ Science ☐ Technology ☐ Engineering

☐ Other (Please specify) _____

How long have you been teaching in this area?

_____

What subjects and levels do you teach regularly?

_____
_____

In what ways do you expect that you and your students will benefit from this workshop?

_____
_____
_____
_____
_____

Mail, fax or email the completed application to:

Dr. Fred Thomas
Learning with Math Machines, Inc.
1014 Merrywood Drive
Englewood, OH 45322-2445

Voice phone: 937-832-0792
Fax: 614-455-0856
Email: fred.thomas@mathmachines.net
Web: www.mathmachines.net

Applications will be processed within 3 weeks of receipt, continuing as long as space is available.
No payment is needed to apply. Registration fees are due 4 weeks after you are notified of acceptance.

Sponsored by:
The Duke Energy Foundation and
The National Science Foundation's Advanced Technological Education Program