

# Learning and Teaching Linear Functions Facilitation Institute

## Professional Development Materials for Teachers of Grades 5-10

February 28 – March 3, 2006

San Diego

The developers of Learning and Teaching Linear Functions (LTLF) will conduct a Facilitation Institute for leaders of mathematics professional development, pre-service educators, and higher education-K-12 teams working with teacher groups in algebra and algebraic thinking. Those attending should already be familiar with the materials and want to learn how to use them productively with others. These exciting professional development materials are receiving high accolades from leaders across the country in both inservice and preservice settings.

The institute will assist leaders use these video-based teacher development resources to help teachers address some of the "problems of practice" associated with the issues and challenges in teaching algebra, such as:

- ✓ Keeping one's eye on the mathematical trajectory (which means knowing the mathematics and one's goals for students' learning of mathematics);
- ✓ Choosing and using various representations of mathematics to further students' learning (mathematical representations as well as student ideas and approaches);
- ✓ Using student productions as opportunities for all students' learning;
- ✓ Interpreting and responding to perceived student errors and unexpected student methods;
- ✓ Launching a lesson.

Developed under a grant from the National Science Foundation, these materials employ a case-based methodology to investigate mathematics, teaching and learning situations that arise in real classroom. LTLF is designed to help teachers improve their ability to prepare and enact lessons that will help students develop conceptual understanding of linear functions, while strengthening teachers' understanding of linear functions. Videos, facilitation materials and related resources are on CD-ROM.

### **What do leaders have to say about their experiences with LTLF materials?**

"Every single one of our participants gave this program the highest rating on the post-institute survey."

"Our project staff could see ... evidence of teachers' increasing ability to scaffold tasks to support their students' developing understanding of concepts of linear functions."

[LTLF] "deepened the teachers' understanding of linear functions as evidenced both in their discussions with each other and in their classrooms themselves."

"Teachers found the experience of the video case modules useful for their own algebraic thinking and in their own classroom practice."

"New teachers improved their algebraic reasoning and their teaching of patterns, functions, and algebra."

### **The Institute is designed to help participants learn:**

- How to lead productive LTLF sessions
- How to develop a teacher learning community
- How to think about the LTLF materials strategically, in relation to other professional development approaches and programs.
- How to adapt these materials to preservice environments

This is a great leadership development opportunity! A nominal tuition fee of \$500\* covers materials, hotel and most meals during the institute. The institute will be conducted at the Sheraton Suites San Diego. The number of participants is strictly limited with priority given to teams and those with concrete plans for using the materials. The deadline for registration is December 16, 2005. Applicants will be notified of acceptance by January 4, 2006. For more information, or to obtain an application, please contact Jean Marletti, (805-388-4420) [jmarlet@wested.org](mailto:jmarlet@wested.org) or visit our web site: <http://www.schoolsmovingup.net/cs/vcmpd/print/htdocs/vcmpd/home.htm>

\* Actual cost is \$3,000. A grant from the National Science Foundation (ESI-0243558) is providing funding to support the institute.

**APPLY NOW!**

## Learning and Teaching Linear Functions Facilitation Institute Institute Application

Dates: Institute begins at 8:00 a.m. on February 28, 2006 and ends at 12:00 p.m. on March 3  
Location: Sheraton Suites San Diego  
Sponsor: WestEd  
Tuition: \$500 fee\* includes *Learning and Teaching Linear Functions* facilitator materials, 4 nights hotel accommodations, and breakfast, lunch and some dinners during the institute. Make check or P.O. payable to WestEd. Include payment with application. If application is faxed, mail tuition separately.  
Deadline: Applications are due by 5:00 p.m. December 16, 2005 (late applications will be considered only as space becomes available). Applicants will be notified by January 4, 2006.

Each participant must complete an application. If you are applying as a member of a team please check the appropriate box on your application and provide the names of other team members. For more information Contact Jean Marletti ([jmarlet@wested.org](mailto:jmarlet@wested.org)). Mail or fax applications to:

Jean Marletti  
WestEd  
570 Airport Way  
Camarillo, CA 93010-8500  
Phone: 805-388-4420 Fax: 805-388-4427.

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### **Please Complete and return this form:**

Your name: \_\_\_\_\_

Your Job title: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Daytime phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

- I am interested in participating in the pre-service strand  
 I am a member of a team. Please indicate names of other team members also submitting an application:

\_\_\_\_\_

Please give a brief description of your professional development leadership experience, your experience with the LTLF materials and why you are interested in using them in your professional development work. Any specific plans for using the materials will be relevant. Provide any other information you feel might be helpful in making your case to be among those selected to participate in the institute. (Attach a page if necessary)

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If selected you are pledging your firm commitment to attend all three and one-half days of the institute and participate in project evaluation. Please sign below to indicate your understanding of that commitment.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_