

# ARRL

## Teachers Institute on Wireless Technology

**Robotics – Space Technology**  
**Electronics – Satellites –**  
**Amateur Radio – Weather –**  
**Radio Astronomy – and more!**

### 2008 Dates and Locations:

April 7-10 Tampa, FL  
(Museum of Science & Industry)  
June 16-19 Rocklin, CA (Parallax Facility)  
June 25-28 Tucson, AZ  
(Pueblo Magnet High School)  
July 14-17 Dayton, OH  
(P&R Communications)  
July 28-31 Newington, CT (ARRL HQ)  
August 4-7 Newington, CT (ARRL HQ)

Six four-day, expenses paid sessions are offered in 2008 to qualified applicants. Enrollment for each session is limited to 12 participants to maximize participation and individual attention.

## APPLY NOW!



**Expand** your horizons with a hands-on professional development experience!  
**Explore** wireless technology for your classroom!

**Sponsored by:** The ARRL Education & Technology Program and funded by members of ARRL.

Building on five years of astounding success, the 2008 ARRL Teachers Institutes offer 72 teachers the opportunity to explore and experience first hand:

- wireless technology basics,
- teaching of basic electronics concepts integral to micro controllers and robotics,
- bringing space technology into the classroom,
- radio astronomy basics and building a radio telescope,
- building and programming a robot, and more!



**Application deadline: May 15, 2008**  
(March 21, 2008 for the Tampa session)

A \$100 deposit is required when accepted.

### Applicant qualifications:

- Active teacher at elementary, middle or high school level, or leadership in enrichment or after-school program.
- Amateur radio license NOT required.

For more information about the Teachers Institute and the ARRL Education & Technology Program and to download an application, please visit <http://www.arrl.org/FandES/tbp/ti.html>

Please direct questions to:  
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Comments from participants from California, Texas, Arkansas, Alabama, Michigan, New Mexico, Connecticut, New Hampshire, Ohio, Maine, Georgia, Florida, Oregon, Missouri, Pennsylvania, Rhode Island, New York, Wisconsin and Nebraska:

"The institute really helped by giving us material resources ... and most importantly by giving me the confidence to teach topics I previously felt unable to teach."

"I am using the information on lightning and the atmosphere for wave propagation and satellite discussion... it is always nice to bring in real life applications to bring knowledge/science to life."

"I had attempted to use the basic stamps in the past (by purchasing units with my own funds), the Institute gave me the "ammunition" to show the benefits to students and obtain some funding for the classroom. I even found that I returned to school with a new and energized interest in expanding my course offerings."

"I have gained many new insights on how to use electronics/robotics/and wireless technology in my curriculum. I believe that my students (7<sup>th</sup> grade) will be fascinated by this technology. It will give many of them the "gee-whiz" moment that could spark a lifelong interest."

"I wish I could have had a program like this in my teacher prep for my technology degree."

"This was a wonderful opportunity to work with colleagues who are excited by learning."

"Incredible resources, quick and in-depth intro into electronics."

"I am going to recommend all our science teachers attend next year."

"This is one of the most useful workshops/ courses that I have had the pleasure of attending in my 30 years of teaching in public education."

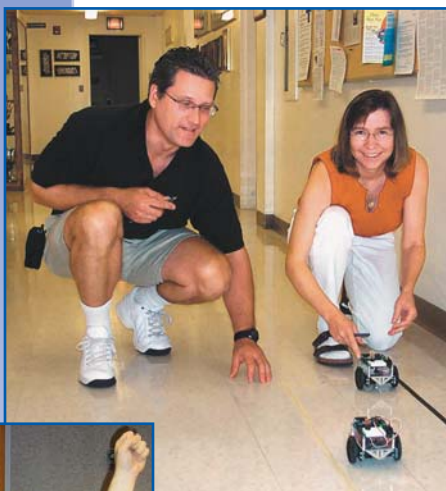
"Informative, motivational and fun!"

"Outstanding, I can't say enough."

## **Format: Expect hard work at the Institute!**

Each 8:00 am to 5:00 pm day is filled with lectures, hands-on activities and demonstrations, building, programming, robotics competition, and of course time is set aside for teachers to operate a ham radio station.

The first two days of the Institute include instruction on how to teach wireless technology, day three covers micro controller basics, and the finale is how to teach basic robotics. The class materials are a mix of basic theory coupled with teaching strategies that you can use immediately when you return to the classroom.



## **Materials provided:**

- Radio Lab Handbook and Curriculum Guide
- Instructional electronics kits
- Magnetism kit
- Parallax Basic Robotics (BOE-BOT) kit
- Parallax "What is a Micro Controller" kit
- Parallax Optascope
- Resource supplies
- Resource library

**Cost:** The following Institute expenses are covered on a reimbursement basis: tuition, lodging and a daily meal stipend are paid by donations to the ARRL Education & Technology Program. Travel is compensated up to \$600 (receipts required).

To qualify for full expense reimbursement, participants must attend all four days of Institute activities.

The Teachers Institute is supported totally through generous ARRL member contributions with additional support from Parallax, Inc. ARRL periodically appeals for donations to support the Teachers Institute and the Education & Technology Program activities that support wireless technology literacy in schools. These donations also make it possible to provide the project activity kits and other hands-on projects spotlighted during the Institute as well as equipment grants to schools for amateur radio stations.



**ARRL** *The national association for*  
**AMATEUR RADIO**

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