

Southern Methodist University

Department of Physics
Fondren Science Building
Dallas, TX 75275-0175
1 January 2001

Dear High School Physics Teacher,

Want something really exciting to do next summer? We invite you to participate in an intensive 2-week workshop for high school physical science teachers. This workshop will introduce you to the forefront research topics in High Energy Particle Physics, and provide "Inquiry Based" learning methodology appropriate for use in your own high school classroom. On top of these benefits, there is a \$1000 stipend and course material allowance. There is an option of 3 graduate SMU credits and credit for AP training. Enrollment is limited to 12 participants.

The workshop is 2 weeks long, and runs 4-15 June 2001, 9am-5pm, Monday-Friday, on the SMU campus. The morning session consists of 2 lectures focusing on current research discoveries and related background material. The afternoon is split into 2 laboratory sessions: one being well-structured, and the other being free-form exploratory. The workshop will include hands-on experience with the latest LabPro equipment by Vernier, as well as other computer software and hardware.

This QuarkNet program is supported by the National Science Foundation, and centered at Fermi National Accelerator Laboratory near Chicago, Illinois. This program provides opportunities for science teachers to learn first-hand about forefront physics research, and establish relationships between science teachers and researchers at participating universities, Fermilab, and the CERN laboratory in Geneva Switzerland. QuarkNet has established 24 centers, and will expand by adding 12 more centers each year over the next three years that will include over 700 High School Science teachers.

At SMU, the program (<http://quarknet.fnal.gov/>) is organized by Professors Richard Stroynowski and Fred Olness, in collaboration with Darren Carollo of Lincoln High School, Ken Taylor of Lake Highlands High School, and Larry Grise of Metropolitan Christian School. Stroynowski and Olness are members of two large international collaborations of physicists that operate huge, intricate detectors whose purpose is to help elucidate the structure and behavior of matter at the smallest scale. Carollo, Taylor, and Grise held summer research appointments at SMU in 2000 which allowed them to become familiar with modern methods of scientific inquiry, learn about how experiments in particle physics are conceived and implemented, and how physicists go about acquiring and analyzing their data; they will share their experience and knowledge during the workshop.

The ultimate goal of this workshop is to help you bring new methods and new information into your own classroom. You will be invited to participate in follow-up sessions during the 2001-02 academic year to facilitate this process and to maintain a network of science teachers in the DFW area.

If you feel a bit adventurous, are interested in learning new things and meeting new people (including "crazy physicists"), come join us! Please mail or fax the enclosed application by the 20 February 2001 deadline; the information is below.

Sincerely,

The SMU QuarkNet Team
Ryszard Stroynowski, Fred Olness,
Darren Carollo, Ken Taylor, Larry Grise

DEADLINES:

Application Deadline: 20 February 2001
Teacher Selection: 1 March 2001

APPLICATION ADDRESS:

SMU Physics QuarkNet Workshop
Physics Department, Box 0175
Dallas, TX 75275-0175

CONTACT INFORMATION:

(214) 768-2495 (SMU Secretary)
(214) 768-4095 (SMU FAX)
(214) 768-2500 (Prof. Olness)

WHO: For High School Physical Science Teachers
WHAT: 2-Week Hands-on, Inquiry Based Workshop
TOPIC: Forefront Research in High Energy Particle Physics
WHEN: 4-15 June. Monday-Friday 9am-5pm.
WHERE: SMU, Department of Physics, Dallas, TX
BENEFITS: \$1000 stipend and course materials allowance
CONTACT: Prof. Fred Olness, olness@mail.smu.edu
WEB: www.physics.smu.edu/~olness/quarknet