

THE 2006 NATIONAL CHAUTAUQUA SHORT COURSE PROGRAM

Overview of the College Teacher Program

Chautauqua Short Courses are an annual series of forums in which scholars at the frontiers of various sciences meet intensively for several days with undergraduate college teachers of science. The series is held at colleges and universities throughout the United States as well as at selected special sites. These forums provide an opportunity for invited scholars to communicate new knowledge, concepts, and techniques directly to college teachers in ways which are immediately beneficial to their teaching. The primary aim is to enable undergraduate teachers in the sciences to keep their teaching current with respect to both content and pedagogy. From year to year, there is an attempt to rotate courses among different regions of the country.

We particularly invite the many newer faculty to participate. This invitation includes current graduate students who are considering an academic career. In 1992 there were approximately 100,000 college and university faculty under the age of 35. This number will approximately triple by 2005.

The program is a cooperative enterprise which involves: college teachers (Participants) who take part with the encouragement of their home institutions; the various scholars who teach the courses (Course Directors); the Regional Field Centers which are responsible for arranging and hosting the short courses; the Council of Chautauqua Field Center Directors which provides the national administrative focus of the program; and the National Science Foundation which provides the financial support.

Some courses are cosponsored by research laboratories, universities and institutes. Applications for these courses are processed by the Regional Field Centers.

Typically, the courses are conducted in a single-session format. The Course Director meets with approximately 25 college teachers for three successive days of full-time activity. Any departure from this format is noted in the course description. Also in the course description, an indication is given for those courses with laboratory or field components.

Eligibility and Selection

In general, teachers of undergraduate students in degree-granting institutions of higher education in the United States whose teaching responsibilities are in the natural or social sciences, mathematics, or engineering are eligible for participation. In some interdisciplinary courses, a few teachers from other fields will be admitted when this would enhance the effectiveness of the course.

Qualified teachers may apply to any Field Center and may participate in more than one course if space permits. Participants are selected by the Field Center Directors. In general, the criteria used for selection are: satisfaction of the listed prerequisites of the course and the potential benefit of the course to the applicant— either directly in his or her own teaching, by the direct influence on the teaching of his or her colleagues, or by involvement in improving the undergraduate science curriculum at the applicant's institution. In interdisciplinary courses, an effort is made to select applicants who represent a wide range of disciplines.

The Chautauqua Program will not discriminate on the basis of age, race, creed, sex, color, or national origin of any applicant or Participant.

Continuing Education Credits (CEU Credits)

Three day program will earn 2.0 CEU credits from the University of Pittsburgh. Longer Chautauqua programs will earn proportionately more than the standard 2.0 CEU Credits. Requests for CEU credits should be sent to the National Chautauqua Center at the University of Pittsburgh (PITT).

Application Fee

An application fee of \$50.00 (\$5 for full-time graduate students) made out to the Chautauqua Program should be enclosed with the application form. The application fees are used to help cover expenses not covered by the NSF grant. Participants or their institutions pay the cost of lodging, meals and travel. If the applicant is not appointed to the course applied for, the application fee will be automatically refunded. The application fee will also be refunded if the applicant withdraws before being appointed to the course or in the unlikely event that the course is canceled. Also, the Field Center Director will supply a letter of support to any Participant who attempts to recover airline ticket costs as a result of a course cancellation.

Application Form

The application form is on page 47 of the brochure. Photocopy this page as necessary. Completed applications should be sent only to the appropriate Field Center Director listed on page 3.

Deadlines

In general, application should be made as early as possible. Ordinarily, Field Centers make selections of Participants at least six weeks prior to the beginning of a course. This provides sufficient time for making arrangements for the Participants in the courses. If brochure distribution dates strain this time schedule, adjustments are made. Feel free to call the appropriate Field Center in this situation. In all courses, applications will be considered on a space-available basis until the start of the course. Course space-availability information is available on the World Wide Web at www.chautauqua.pitt.edu.

Special Air Line Fares

Special discounts have been arranged for air transportation. This information is available at www.chautauqua.pitt.edu.

Disabled Participants

Disabled Participants in need of special services or accommodations should inform the Field Center Director as early as possible so that there is sufficient lead time to make arrangements.

Schedule of Courses

The schedule of courses is given on pages 4-9. Regions with more than two workshops are designated by columns. The course descriptions appear on pages 10-46.

FIELD CENTERS

NOTE: Most courses are offered at Chautauqua Field Centers or Satellite Centers. Some courses are offered at special sites and cosponsored by agents at those sites. For all courses, inquiries and applications should be directed only to the appropriate Center and individual listed below. The schedule on pages 4-9 and the course descriptions that follow indicate the appropriate Center for each course. Some Centers maintain their own Web page with additional details. Their **URLs** are listed below. The name of the Center Director must be included on FAX transmissions. See world wide web for on-line application and space availability.

(www.chautauqua.pitt.edu)

AK-HI Communicate with CAL, DAY, or TXA below.

CAL Gilbert Yanow
NSF Chautauqua Program
c/o College of Education
California State University, Dominguez Hills
1000 E. Victoria Street
Carson, CA 90747
Telephone: (909) 717-7528
Fax number: (310) 243-3518
E-Mail: gyanow@csudh.edu
URL: <http://www.calchautauqua.net>

DAY George K. Miner
Chautauqua Field Center
Department of Physics
University of Dayton
300 College Park Drive
Dayton, OH 45469-2314 (9 digits required)
Telephone: (937) 229-2327
Fax number: (937) 229-2185
E-Mail: miner@udayton.edu

FL Communicate with DAY, UWA or TXA below.

GVSU Edward J. Baum
Director, Center for Excellence in Science
and Mathematics Education
Fellow and Scientist in Residence, The Honors College
Grand Valley State University
Department of Chemistry
Allendale, MI 49401-9401
Telephone: (616) 331-3192
Fax number: (616) 331-3413
E-Mail: baume@gvsu.edu

HAR Robert Neugeboren
Harvard Summer School
Harvard University
51 Brattle Street
Cambridge, MA 02138
Telephone: (617) 495-1765
Fax Number: (617) 496-4525
E-Mail: neugebor@fas.harvard.edu

MAN Communicate with SBU or UWA below.

PITT Nicholas G. Eror, Director
NSF Chautauqua Program
Materials Science and Engineering
274 Benedum Hall
University of Pittsburgh
Pittsburgh, PA 15261
Telephone: (412) 624-9761
Fax number: (412) 624-9585
E-Mail: eror@pitt.edu

RMT Communicate with CAL, DAY, PITT or TXA.

RPI Prabhat Hajela, Vice Provost
Dean of Undergraduate Education
Rensselaer Polytechnic Institute
Troy, NY 12180
Telephone: (518) 276-2244
Fax number: (518) 276-40
E-Mail: hajelp@rpi.edu

SBU Lester G. Paldy
Center for Excellence and Innovation
in Education
University of Stony Brook
S101 SBS Building
Stony Brook, L.I., NY 11794-4335
Telephone: (631) 632-7696
Fax number: (631) 632-7968
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TXA James P. Barufaldi
Center for Science and Mathematics Education
University of Texas at Austin
1 University, SZB 340-D5705
Austin, TX 78712-0382
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URL: www.edb.utexas.edu/coe/depts/CI/scied/chautauqua/

UWA Anthony J. Irving
Earth and Space Sciences
Box 351310
University of Washington
Seattle, WA 98195-2120
Telephone: (206) 543-9544
Fax number: (206) 543-0489
E-Mail: chautauq@u.washington.edu
URL: <http://depts.washington.edu/chautauq>