



Public Education Program 2001 Annual Report American Nuclear Society



Inspiring Tomorrow's Nuclear Professionals

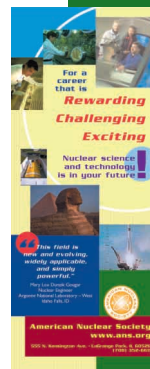
PEP sponsored exhibits at six national and regional teacher conferences throughout the year. Workshops and hands-on demonstrations by ANS volunteers sparked interest in teaching nuclear-related subjects. Instructional materials, classroom-ready projects and curriculum guides were available for teachers to examine and order.

PEP sponsored exhibits at career fairs held in Arkansas, Illinois, Ohio, Massachusetts, Missouri, and Texas to stimulate interest in nuclear science careers. PEP also provided materials and exhibits that are used by ANS student sections in their local career fairs and outreach activities.

Members of ANS local sections, plant branches, and student sections also participated in numerous science fairs and classroom presentations during the year. Many of these local events were underwritten with Public Information Assistance (PIA) grants given by ANS PEP. The PIA grants also help fund teacher workshops, Girl Scout and Boy Scout activities, career day programs, and other events in communities throughout the country.



In 2001, ANS outreach efforts were expanded to generate more interest among young people in pursuing nuclear careers. A career brochure and poster were created and mailed to 21,000 middle school and high school teachers for their students. Organizations also use these brochures and posters as part of their outreach efforts to recruit the future nuclear workforce.



"I highly recommended the workshop to fellow teachers and my Principal. This workshop was highly stimulating. I love to find new ways to show my math students why and how we use math. I would attend again!"

Marsha Stoddard – 6-hour workshop in Tucson, Arizona

Educating 1,000 Teachers with ANS Volunteers

This past year, PEP dramatically increased the number of workshops it sponsors to teach educators about nuclear science. During 44 workshops held in 16 states, more than 1100 teachers mastered basic concepts, experiments, and other hands-on activities to share with their students. Considering that these educators teach an estimated 66,000 students each year, the long-range effect of these training sessions cannot be underestimated.

Offering this many workshops would not be possible without the tremendous support PEP receives from ANS volunteers. The cost of providing the workshops was underwritten by ANS, a grant from the U.S. Department of Energy, Office of Nuclear Energy, Science & Technology, ANS local sections, and industry-related companies.

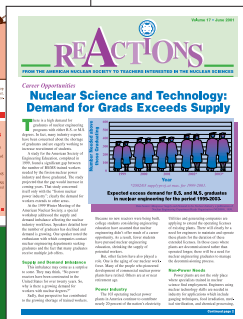
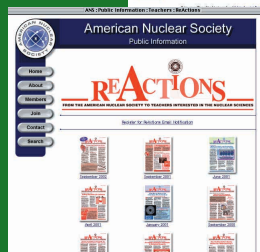
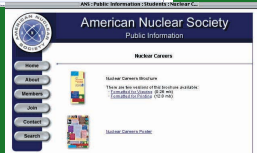
Providing Teacher and Classroom Materials

PEP's newsletter *ReActions* provides its 20,000 subscribers with articles on exploring nuclear technology, classroom ideas, and upcoming events. The newsletter became available on-line in 2001 with an interactive version which will be offered twice a year in the future. In

addition to the subscribers, over 800 people have registered for e-mail notification of *ReActions*.

PEP also publishes classroom guides and project materials that explain the many uses of the atom and the vital role of nuclear technology in grade-appropriate language. The popular ANS PEP workshop program, "Detecting Radiation in Our Radioactive World," provides teachers with Geiger counters and instructions for using the counters to teach nuclear science in the classroom. It includes classroom experiments and demonstrations crucial to making classroom learning come to life.

Educational materials developed by ANS volunteers and staff are provided free to classroom teachers. The items include booklets, supplemental handouts, posters, and other instructional tools. Materials are developed for students ranging from elementary through young adult level.



Sources of Funding

Funding for PEP activities comes from ANS and its individual members who contributed more than \$43,000 through their 2001 membership renewals. PEP also received government grants and support from corporations in the nuclear industry. Additional revenues are generated by royalties from films, the ANS credit card, and sales of educational materials.

Contributions and in-kind gifts raised through PEP go exclusively to education and career programs. Contributors may choose to support one or more specific outreach programs. The pie charts show revenues and expenditures for PEP activities during the 2001 calendar year.

In 2001, ANS PEP received a grant of more than \$200,000 from the U.S. Department of Energy, Office of Nuclear Energy, Science & Technology, to develop programs that raise awareness and heighten interest in careers in nuclear science and engineering. Its major focus is to interest students to pursue nuclear careers. The funds were used to provide outreach to students through materials, exhibits, and classroom presentations about careers. Teacher workshops are also sponsored to generate enthusiasm and enhance confidence among educators for teaching nuclear science concepts in the classroom.

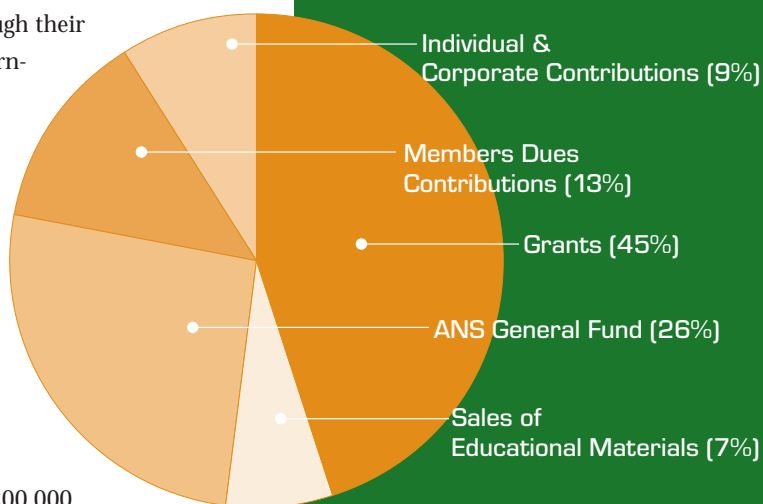
For a list of workshops go to www.ans.org/pi/teachers/workshops/schedule.cgi

Serving as a Resource Center

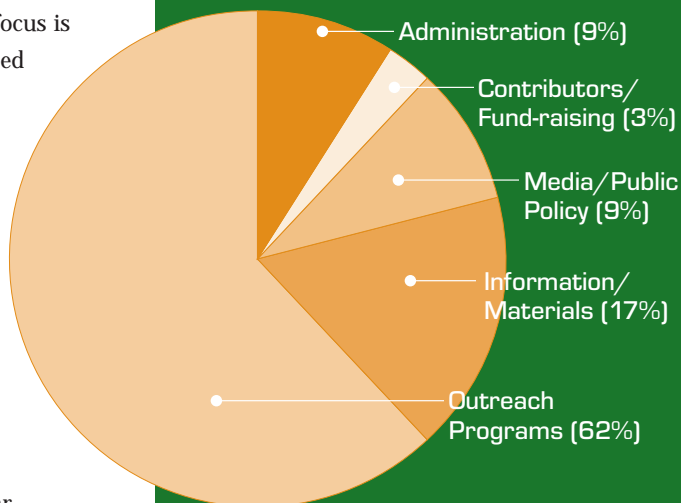
The ANS web site, www.ans.org, provides information on nuclear-related topics to teachers, students, and the general public. It is also the first place many members of the media go when researching nuclear science stories.

ANS staff members respond to a number of mail, phone, and e-mail requests from students, parents, and others asking for information on nuclear technology. PEP provides guidance for reports, science projects, and career information for elementary, high school, and college students. Those who are seeking information on programs in their area are directed to local sections or student sections (formed at universities) forging many new partnerships.

Revenue



Expenditures



"I teach a course in chemistry for non-science students (pre-law). The CD-V700 Geiger counter is an excellent instrument now in my repertoire. I also teach a class each semester of high school science teachers; it gets used there, too".

Joseph Schmuckler – NSTA Regional Workshop in Baltimore, Maryland

ANS Public Education Program 2001 Contributors

The American Nuclear Society's Public Education Program appreciates its numerous sponsors and friends who have contributed to PEP's educational outreach efforts in 2001. More than 3300 ANS members have also contributed to PEP through the dues renewal process.

The PEP Honor Roll

EINSTEIN HONOR ROLL (\$1,000-\$4,999)

CANDID (Citizens Against
Nuclear Disinformation
in Denver)
John W. Landis

MARIE CURIE CIRCLE (\$500-\$999)

AECL
Arizona Public Service Company
Atlantic Group
British Nuclear Fuels, Warrington
Carolina Power & Light Company
Consolidated Edison Co. of
New York, Inc.
Constellation Nuclear
Commonwealth Edison Co. –
Byron Station
Detroit Edison Company
Dominion Generation
Duke Engineering & Services
Entergy Operations, Inc.
General Atomics
McCallum-Turner
Pacific Gas & Electric Company
PPL Susquehanna, LLC
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Southern California Edison
Southern Nuclear Operating
Company
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Westinghouse Electric Corporation

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Carolina Power & Light
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Nuclear Management Co., LLC
USEC, Inc.

RESEARCHER (\$100-\$249)

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Black & Veatch
Cogema, Inc.
Cohen, Karl P.
D. C. Cook Nuclear Plant
Eagle-Picher Technologies, LLC
Hans Walischmiller GmbH
Institute of Nuclear Safety
System, Inc.
Korea Atomic Industrial
Forum, Inc.
Krsko Nuclear Power Plant
G. Ivan Maldonado
Don W Miller.
NUMANCO, LLC
PaR Systems, Inc.
Wyle Laboratories

FANS! (\$50-\$99)

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Kinemetrix, Inc.
Linn High Therm GmbH
Navarro Research & Engineering
Nuclear Placement Services, Inc.
Private Fuel Storage, LLC
Reef Industries, Inc.
Technical Associates
Wright Industries, Inc.

About ANS and PEP

ANS—Founded in 1954, the American Nuclear Society is a not-for-profit scientific and educational organization. The Society's 10,500 members include scientists, physicists, engineers, educators, and administrators in the U.S. and 40 countries.

PEP—The ANS Public Education Program provides current information on nuclear-related topics to educators, students, and the public. Educators rely on PEP for credible information based on scientific evidence, free of commercialism.



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