

**AMERICAN NUCLEAR SOCIETY**

The American Nuclear Society (ANS) brings together professionals in the nuclear field to explore, discover, and invent solutions for the challenges facing society today.

As a not-for-profit scientific and educational organization, the Society's diverse membership of 10,000 scientists, engineers, educators, and administrators collaborate to advance engineering and science related to the smallest particles of matter.

Nuclear professionals develop and share their technical expertise through a variety of ANS-sponsored activities including:

- Peer reviewed journals
- Trade publications
- Annual meetings
- Technical programs
- Topical meetings
- Position Statements
- Consensus Standards
- Professional divisions
- Congressional Fellowship

*The benefits of a  
science-informed society*

ANS members contribute new knowledge to the areas of agriculture, energy, environmental protection, industry, and space exploration.

**ANS EXPLORES THE  
DOWN-TO-EARTH RESULTS  
OF ADVANCED TECHNOLOGY**

For fifty years, the American Nuclear Society has supported the application of nuclear science and technology to benefit humanity. As a vital institution, ANS continues to support its members to extend their explorations and to share their discoveries and inventions with the public.

Cover and back photo, Low energy end of proton drift tube in the 200 million volt linear accelerator, courtesy of Brookhaven National Laboratory.



Exploration  
Discovery  
Invention

*The benefits of a  
science-informed society*

## NUCLEAR SCIENCE: UNLIMITED OPPORTUNITIES WITH DOWN-TO-EARTH RESULTS



### PROMOTING PROFESSIONAL EXCELLENCE

ANS hosts 19 divisions in which members come together with their peers in specialized technical areas. They discuss, debate, and disseminate their research and investigations.

ANS also provides valuable forums for professionals to network, mentor each other, and achieve advancements in the use of nuclear science and technology to benefit humanity.. Membership details are available: [www.ans.org/constituency](http://www.ans.org/constituency)

### *Educating Students, Teachers and Communities*

ANS members' special scientific knowledge provides for outreach programs that help to explain the role of nuclear science and technology in our everyday lives.

ANS Teacher Workshops bring nuclear professionals and educators together, offering teachers new knowledge and skills to take to their classrooms.

ANS Speakers Bureau members visit schools, civic groups, and conferences for speaking engagements. Member-contributed online resources include: [www.aboutnuclear.org](http://www.aboutnuclear.org)

# Exploration

# Discovery

After Marie Curie discovered radiation in 1898, scientists and engineers spent more than a century exploring innovative applications of nuclear science and technology. Their discoveries and inventions guide the use of the atom in agriculture, energy, ecology, industry, medicine, and space.

ANS provides many forums for professionals to share their knowledge, develop their expertise, and push the latest developments in the international nuclear field. Past and present ANS members have delivered many time and cost saving technologies. The Society brings together professionals who believe in improving the world around them by offering tested solutions in science and technology.

# Invention

### *Leading Industry, Research and Science*

ANS is widely recognized as an outstanding source of information on fundamental research in all scientific areas related to the peaceful use of nuclear science, its applications, and its theoretical underpinnings. The Society's peer reviewed journals offer the first publication of many of the nuclear industry's breakthroughs.

Meetings, workshops and conferences attract leaders in the industry to explore the scientific, socio-economic, and practical implications of their practices. The Society publishes full papers from these events, offering detail on progress in the field. Examples are available: [www.ans.org/publications](http://www.ans.org/publications)

### IMPLEMENTING SUCCESSFUL SOLUTIONS

ANS members believe in the science and technology they have tested. Therefore, many members advocate for proven solutions. Position statements represent thoughtful debate among members to reach agreement. The Society's industry standards establish safe practices and may influence regulatory guidance. Voluntary consensus procedures receive wide acceptance in the industry due to the broad representation of experts who worked to prepare them. ANS Standards are offered online: [www.ans.org/store](http://www.ans.org/store)

Above photo, acoustic material in a fusion reactor.