

January, 2007

CNTAware Newsletter



YOUR 2007 MEMBERSHIP RENEWAL FORM IS INSIDE AND THE 2006 ANNUAL REPORT IS ENCLOSED.

STUDENT SELECTED TO BE ON TEEN JEOPARDY!

Tom Varallo, a CNTA member is very proud of his daughter, Amy. She has been selected to be a contestant on Teen Jeopardy. The taping will take place in March, although an air date has not been scheduled. Amy has some major accomplishments: perfect SAT scores, perfect ACT score, perfect 2nd year French and German national exam scores, Aiken High's highest ever French SAT subject matter test score. The ACT folks sent a letter congratulating Amy for being one of the 23 students in the USA, out of more than 80,000 students who took the ACT test that day, to achieve a 36 Composite score. It's no surprise that Amy was selected to appear on Teen Jeopardy.



Tom, who has been a member of CNTA for many years and told us that when Amy heard Dr. Alan Waltar at our Up & Atom Breakfast she was convinced that Nuclear Engineering would be her career path. Dr. Waltar is a Senior Advisor to the Pacific Northwest National Laboratory and authored *America the Powerless and Radiation and Modern Life: Fulfilling Marie Curie's Dream*. Dr. Waltar autographed his *Radiation and Modern Life* book after the breakfast. It's exciting to think that one of our Up & Atom Breakfast's could influence a fine young person into a career in the Nuclear field.

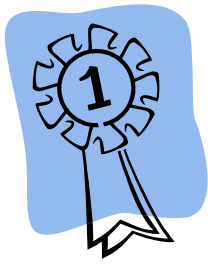
Amy plans are to attend Georgia Tech majoring in Nuclear Engineering. With all of Amy's accomplishments and activities, we're sure Amy has a very bright future in front of her. *We'll look forward to her contributing articles to this newsletter and being an active CNTA member.*

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**SAVE THE DATE
MAY 11, 2007
FOR THE NEXT
CNTA
GOLF
TOURNEY**

**BWXT IS
OUR TOURNAMENT
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American Nuclear Society Presidential Citation Received

On November 14, 2006 the American Nuclear Society presented Citizens for Nuclear Technology Awareness and Mal McKibben a Presidential Citation for fifteen years of leadership in grassroots nuclear advocacy, for becoming a national model of an effective and respected grassroots pro-nuclear organization, and for assisting other regions with establishing their own grassroots organizations using the CNTA model. The attractive plaque is on display in our “Trophy case”.

Harold McFarlane, our current ANS President, has been aware for many years of CNTA’s activities. Last February, as ANS President Elect, he was our Up & Atom speaker. His talk was “America’s Energy Security in a Global Context”.

At the awards luncheon in Albuquerque he had high praise for CNTA’s 15 years of nuclear education and advocacy.



Mal receiving Presidential Citation award from Harold McFarlane, ANS President in Albuquerque, NM

FOR YOUR
INFORMATION

CNTA is affiliated with the following organizations:

- Clean & Safe Energy Coalition (CASEnergy)
- Nuclear Energy Institute
- Fuel Cycle Week (free subscription)
- SUNRISE Teaching & Research Reactor



CNTA HIGH SCHOOL ESSAY CONTEST

CNTA will sponsor an essay contest for high school students in Aiken, Richmond and Columbia County Schools. Students who are current juniors and seniors in high school are invited to submit an essay on “Beneficial Uses of Nuclear Technology in Everyday Life”. The competition will be judged by the CNTA staff and representative of the general membership. Essays should be 1000-1500 words in length.

The winner of the essay contest will receive a \$1000 scholarship, and the school will receive a \$500 award. The winning student will be honored along with their parents and a school representative at the Edward Teller Lecture as guests of CNTA.

The purpose of the CNTA Essay Contest is to promote a better understanding of nuclear technology among high school students. It also provides an incentive for the development of communication skills that are vital to those entering the workforce and American business. Information has already been sent to area schools and due date for submitting essays is the end of March. Bill Wabbersen is Chair of this newly formed committee.

SPEAKER'S BUREAU



Talkin' Fools!

By Steve Sheetz

The CNTA Speaker's Bureau had its busiest year ever, giving 21 presentations and reaching out to approximately 1050 folks across the 2-state area and beyond! This was a 60+% increase from last year. From students to civic groups to professional organizations; we hit them all. We owe a great deal of thanks to everyone who gave of their time, drove all over creation and endured "rubber chicken" lunches in an effort to get the CNTA message out on a variety of topics. We also owe "thanks" to the many members that helped identify many of these speaking opportunities. No matter how many brochures we mail, the most effective marketing of our services comes from word-of-mouth between our members, and other clubs and organizations. Please continue to help us find these wonderful opportunities.

Highlights from this year include:

- ◇ Finished a new Speaker's Bureau brochure for our mailings
- ◇ Reached 1050 people in the community
- ◇ Students - 545
- ◇ Civic groups - 317
- ◇ Professionals – 185



Mal McKibben spoke in Santa Monica, California

Besides reaching more people in the New Year, our major focus in 2007 will be to build a bigger presence in the local schools. We have drafted a Speaker's Bureau brochure focused on teachers. We plan to offer a variety of talks that will help teachers meet certain science curriculum requirements and the brochure will cross-reference those for them. If successful, this could help us influence a lot of young minds and educate them on a variety of nuclear topics. Can you think of a better goal for 2007?

If you are a subject matter expert on any nuclear topics (or if you just like to talk – we'll train you!), we would love for you to join our cadre of speakers. If you have an interest in teaching students of all ages, we especially want you. Just give Karen Bonavita a call at the CNTA office and we'll put your knowledge and talents to good use.

Now go out there and spread the word about the CNTA Speaker's Bureau! Meanwhile, thanks to all who got out there and spoke on our behalf: Neal McCraw, Ben Cross, Ken Crase, Walt Joseph, Susan Wood, Bill Wabbersen, Gail Jernigan, Ken Stephens, Todd Crawford, Mal McKibben and Steve Sheetz.

DID YOU KNOW.....

Public Exposure to Radiation comes from:

55%	Radon in Nature	11%	Internal (natural body)
11%	Medical X-Rays	<1%	Nuclear Power Plants
8%	Terrestrial		
8%	Cosmic Rays (Sun)		
3%	Consumer Products		
4%	Nuclear Medicine		

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MEMBERSHIP 2007

We need your support more than ever!

Dear CNTA Members:

Welcome to 2007! 2006 was a great year for our organization. As you will conclude from the enclosed annual report, we were extremely active with local, regional and national media. Our Speakers Bureau presented many, many presentations to interested citizens and students. We held Up & Atom Breakfasts with a variety of informative speakers that helped to educate us on things nuclear. We provided a scholarship to a very deserving student. And finally we presented the Edward Teller Lecture/Banquet which provided over 400 people from across the United States with a very informative presentation concerning the future of Nuclear Energy in the United States.

Your participation and support made all of this possible and you should be proud of what your pro-nuclear education organization has accomplished. As we enter the New Year we are beginning our membership renewal process. Memberships to the CNTA are on an annual-calendar year-basis. In order to help us get the new year off to a successful start, we ask you to help us help you by renewing your membership today. The renewal form is in this mailing and if you could take a couple of minutes to complete it and return it to us we would benefit greatly. We have even included an addressed envelope for you.

2007 is again a very important year to our membership and our community and region. It appears that the U.S. Government will be under a Continuing Resolution for all of the year impacting activities at SRS. The Global Nuclear Energy Partnership (GNEP) initiative, the Mixed Oxide Fuel Fabrication Facility, Pit Disassembly and Conversion Facility and Plutonium Vitrification Project could all be impacted. SRS is also one of five sites under consideration for the plutonium consolidation facility in DOE's Complex 2030 initiative. Your CNTA will be working very hard in 2007 to support SRS missions which will provide many benefits to our community, state and region.

Please rejoin today and please consider upgrading your membership to the next level of participation.

Thank you for supporting your Citizens for Nuclear Technology Awareness!

Craig Martin,
Membership Chair

2007 CNTA GOLF TOURNAMENT

By Ron Schroder—Chair

Now that the New Year has arrived, it is time to start thinking about the CNTA Golf Tournament. This is one of the most important fund raising events of the year for the CNTA and it is critical that we have outstanding participation. Last year, we had a full field and the CNTA raised more than \$10,000 at the event. So, please mark your calendars with the following information:

CNTA Golf Tournament

May 11, 2007

Houndslake C.C.

8:30 am shotgun start

7:30 am registration

Lunch following play



The format will be the same as last year with 4-person teams competing for the coveted 1st place prize. Registration forms will be available within the coming months.

IMPACT OF INFORMATION ABOUT NUCLEAR ENERGY

—Given the prospect of new nuclear power plants and limited public knowledge about nuclear energy, the survey asked respondents about nine statements conveying information about the benefits and safety of nuclear energy—in the context of new nuclear power plant construction.

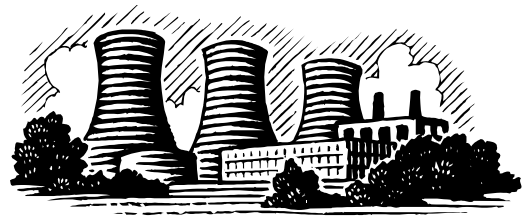
Before they heard the statements, respondents were asked to picture the following scenario: *“Let’s imagine that more electricity is needed in your area sometime in the future and an electric company wants to add a new nuclear power plant at the site of the nearest nuclear power plant that is already operating.”*

All nine statements substantially increased the inclination of those surveyed to support the decision. Leading statements were:

1. Nuclear power plants help keep our air clean because they do not emit any greenhouse gases, and they are an emission-free source of electricity.
2. The federal Nuclear Regulatory Commission inspects and monitors each nuclear power plant daily. If a nuclear power plant is not operating safely, the regulator will shut it down until it improves its safety practices.

3. Switching to nuclear energy to make that electricity reduces America’s reliance on fossil fuels and energy from unstable parts of the world.
4. New advanced-design nuclear power plants have state-of-the-art safety technology.

After hearing the information, those saying a new nuclear power plant at the nearest site would be acceptable increased 10 percentage points from 62 percent to 72 percent.



A business card for Jeremy M. Keller. The card has a light blue background with a yellow border. On the left is the logo for JM Keller Insurance & Investments, LLC. On the right, the name "Jeremy M. Keller" is printed in a bold, sans-serif font. Below the name is the address "1204 Whiskey Road, Suite A, Aiken, SC 29803", followed by the office phone number "803-649-5148", the fax number "803-641-7002", the email address "jmkeller@jmkellerinsurance.com", and the website "www.jmkellerinsurance.com".

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Top Ten Reasons Nuclear Power Is Vital To America's Energy Policy

- 1. Nuclear power helps diversify the U.S. energy portfolio.** Energy diversity long has been one of the strengths of the U.S. electricity system. Even as electricity demand has grown, increased electricity production from the nation's 103 nuclear power reactors has kept nuclear energy's share of U.S. electricity production at 20 percent for the past 15 years. This expansion of nuclear energy is helping to prevent the price and supply disruptions associated with some fuel sources from having a more detrimental impact on the economy and consumers.
- 2. Nuclear power is an efficient and affordable source of electricity.** U.S. nuclear power plants are running at electric industry-leading levels of safety and efficiency. Nuclear power produced 782 billion kilowatt-hours (kwh) of electricity in 2005 – the second highest ever and just shy of the record output of 789 billion kwh in 2004. The industry's efficiency – 103 reactors produced power about 90 percent of the time 24/7 – is the top among all power sources. Nuclear energy also has the lowest production costs outside of hydroelectric power plants – approximately 1.7 cents per kilowatt hour.
- 3. Nuclear power is safe and reliable.** U.S. nuclear power plants have a combined 3,100 reactor-years of operating experience, and the U.S. nuclear Navy has a combined 5,500 reactor-years of operating experience on top of that. Beyond having proven their safety performance over this time frame, nuclear plants are efficient, particularly when compared with other fuel sources for electricity. For example, compared to natural gas, uranium is relatively low in cost and less sensitive to fuel price increases. One uranium fuel pellet—the size of the tip of a little finger— produces the amount of electricity equivalent to 17,000 cubic feet of natural gas, 1,780 pounds of coal or 149 gallons of oil.
- 4. Nuclear power does not emit greenhouse gases.** Nuclear power plants generate large amounts of electricity safely and reliably without producing harmful emissions. Nuclear energy is by far the nation's largest emission-free source of electricity, providing 73 percent of the electricity from all emission-free sources, including hydroelectric, wind and solar.
- 5. Clean air benefits draw new supporters.** Recognized environmental leaders like Greenpeace co-founder Patrick Moore, Whole Earth Catalog founder Stewart Brand and Gaia Theory creator James Lovelock have shared their support for nuclear power. Issues like the concern about the potential for global warming have put new emphasis on nuclear power since it does not produce greenhouse gases.
- 6. Progress is being made toward development of a used fuel disposal facility.** In 2002, Congress and the President approved Yucca Mountain, Nev., as a suitable site for development of a state-of-the-art, deep geologic repository for used nuclear fuel. The Department of Energy is continuing work on the Yucca Mountain license application that will be submitted to the U.S. Nuclear Regulatory Commission for review and approval. At present, used nuclear fuel is safely stored at plant sites and well-protected by a combination of sturdy plant construction, state-of-the-art surveillance and detection equipment, and armed, well-trained paramilitary security forces.
- 7. National leaders support the development of nuclear power.** Congress passed and the President signed the Energy Policy Act of 2005, which included limited investment incentives for research, development and expansion of nuclear power. The legislation – with its mix of provisions supporting conservation, energy efficiency, new production and urgently needed investment in our energy infrastructure – will substantially help our nation achieve its economic, security and environmental goals.
- 8. The financial community has positive views about nuclear power.** Leading financial companies like Merrill Lynch, Prudential Equity Group, Fitch Ratings Global Power Group and Moody's Investor Services have indicated that there will be a renaissance of nuclear power and point to it as an investment for the future.
- 9. Yes, in my backyard.** Over the past year, several states and localities have passed resolutions, floated incentive packages and otherwise voiced support for new nuclear power plant construction in their areas. A first-of-its-kind, national survey of nuclear power plant neighbors conducted last August by Bisconti Research Inc. with Quest Global Research Group found that 76 percent of Americans living in close proximity to nuclear power plants are willing to see a new reactor built near them.
- 10. Nuclear power is a trusted technology abroad.** More than 30 countries rely upon nuclear power as a safe and affordable source of electricity. For example, France is approximately 80 percent reliant upon nuclear energy for baseload power. Foreign leaders like Prime Ministers Tony Blair (UK) and Junichiro Koizumi (Japan) and Presidents Angela Merkel (Germany) and Vladimir Putin (Russia) all have expressed support for nuclear power.

Information courtesy of NEI

SOME WAYS WE BENEFIT FROM PRODUCTS AND SERVICES THAT PRODUCE LOW-LEVEL RADIATION.

- Nuclear power plants produce about 20% of America’s electricity, without polluting the air, one of our most precious national resources.
- Most people don’t realize it, but at least 80 percent of all new medicines are developed using radioactive materials.
- We use radioactive materials in industry in hundreds of ways. Manufacturers use radioactive sensors because they’re so precise.
- Radioactive materials are widely used in medical diagnosis and treatment, and to develop new drugs to treat diseases like cancer. Of the 15 Nobel Prizes granted in physiology and medicine from 1975 to 1989, 10 were based on research using radioactive materials.
- Even ordinary items like non-stick frying pans are treated with radiation to make sure the non-stick coating adheres properly. This does not make the frying pan radioactive, of course.
- Airlines use radioactive sensors to detect explosives hidden in the baggage.
- Brain surgery is now quicker and safer, thanks to a device called a “gamma knife,” which aims a beam of radiation very precisely.

To:

