



GUESS WHAT?....YOU WON'T BE ABLE TO GUESSWE'VE NEVER DONE THIS BEFORE



It's an invitation to join us for a "Members Mixer" at Newberry Hall on Tuesday, February 23 to **THANK YOU**, in a small way, for your continued support. The event is strictly social with beverage and canapés. The best part is that it won't cost you anything...it's FREE to our CNTA Members and your guest!

Please RSVP by February 19th and let us know if you're bringing a guest.

Date: February 23, 2010 (Tuesday)

Place: Newberry Hall

Time: 6:00 p.m. to 8:00 p.m.

RSVP: Last day to respond is Friday, February 19, Close of Business

Email your reservations to cnta@bellsouth.net or call 803-649-3456

MY! HOW TIME FLIES!

By Clint Wolfe



I'm really good at coming up with catchy phrases to capture a particular thought or conviction. I came up with another one just for this newsletter, "My, how time flies". I think this one has a chance of catching on.

After all, it seems it was only yesterday that I began my second year with CNTA as Executive Director on January 1, 2009. Since then we had our strategic planning sessions during the first part of 2009, testified before Congress, published tens of letters to the editor and opinion editorials, provided testimony at several NRC and PSC hearings on new nuclear construction, awarded scholarships and awards for essay contests, held 9 "Up & Atom" breakfasts and held our annual Teller Lecture dinner.

That dinner was notable for a number of reasons, but I like to point out that in line with our strategic planning objectives the Teller audience included representatives of 2 & 4 year colleges, graduate schools, African American nuclear engineering students from SCSU, economic development organizations, a labor union (IBEW), corporate America, utilities, DOE and nuclear contractors and engineering firms.

The assembled multitudes heard House Majority Whip James E. Clyburn give a ringing endorsement of SRS, SRNL, nuclear power, recycling used fuel and the MOX project at SRS. The diversity of the audience was noted by the Congressman and he encouraged us to persevere and never give up.

I see great progress toward nuclear resuming its rightful place in our energy plans. I want to see great progress in 2010 in helping the SRS and SRNL be important players in our energy future. With your help we can help make this a reality. Let's have a great 2010 and next year I'll come up with another catchy phrase for you to remember.

WHAT DO YOU THINK? This is the first time we've sent our newsletter via email. Let us know if you had any trouble receiving or reading it. Like everyone else, we hope this will be a time and money-saving way for us to communicate with you. Those members who do not have email capability will receive a hard copy of the newsletters. Your comments will be helpful. Thank you.

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Newberry Hall

UP & ATOM BREAKFAST SCHEDULED FOR JANUARY 28



You should have already received a notice about our January breakfast. Our guest speaker is Mark Fecteau, Managing Director of Strategic Project Development and a member of the Core Leadership Team for Westinghouse Electric Company.

Mark is also the current chair of the Carolinas Nuclear Cluster.

The breakfast will be at Newberry Hall, January 28th at 7:30 a.m. Please call or email your reservation by January 26. CNTA phone #803-649-3456 or cnta@bellsouth.net. Hope to see you there!

Year-end Up & Atom Breakfast



Garry Flowers, President and Chief Executive Officer of Savannah River Nuclear Solutions, LLC was our guest speaker at the December 3, 2009 Up & Atom Breakfast. Mr. Flowers spoke about the goals they have set to meet

their SRNS mission; how they plan to deliver on those goals by performing their mission, reducing the footprint from past operations and creating a sustainable future for SRS; and paving the way for the days and years to come by continuously meeting DOE's expectations.

Over 120 people attended the breakfast.

CNTA would like to thank Garry for his time and we are looking forward to him being a guest speaker again.

MEMBERSHIP CAMPAIGN UNDERWAY

In a few days you will receive the membership form/dues invoice for 2010. Please take a few minutes to complete the form and send your check in support of CNTA.

2010 is already gearing up to be a busy year, we want you to be a part of it. **JOIN TODAY AND DON'T FORGET TO TELL A FRIEND ABOUT US..** we will be offering Benefactor and Patron level members a free "guest ticket" for one of our Up & Atom Breakfasts to be used by non-member guests.....they'll appreciate learning the facts about nuclear! If every member of CNTA could get one additional member this year, we'd double our organization! Are you up for the challenge?



CNTA High School Essay Contest for 2010



We have great news about the CNTA High School Essay Contest this year. We will be awarding a total of five (5) students with \$1,000 check and \$500 to the winner's school! We are pleased that two more CNTA members have contributed money for this contest. The CNTA organization started out with the first award with Parsons, and Tom Varallo following up with their sponsorship. Now we can include Dr. Susan Wood and Dr. Clint Wolfe as sponsors.

The 3 topics this year are:

- Compare and Contrast Nuclear Power Production in Nations Around the Globe
- Medical Isotope Production, Distribution, and Use
- The Value of Nuclear Technologies and Radioisotopes to the World's Food Supply

Information about the contest has already been sent to area schools and the information about the contest qualifications and rules can also be found on the CNTA website: www.c-n-t-a.com. February 28th is the deadline to submit. Electronic submittal or hard copy entries are acceptable. Our CNTA email is: cnta@bellsouth.net or physical address is: CNTA, 1204 Whiskey Rd, Ste B, Aiken, SC 29803. If you have a high school student in grades 11 or 12, encourage them to enter. This is a great way to get students interested and talking about nuclear subjects.

"Congress needs to ensure that the majority of new demand is met by sources other than natural gas. New nuclear generation, which has almost no carbon contribution and a tiny footprint on habitat, must be significantly increased. Because nuclear energy provides reliable baseload electricity supply, it directly reduces the need for natural gas-derived electricity and thereby may reduce the impact of extraction on habitat in the Rocky Mountain west."

—**The Boone and Crockett Club**
[in the position paper Climate Change Policy](#)
August 2009

"I think it's asinine, what we've done over the past 30 years, where we've allowed France to fuel 80% of their economy on nuclear energy and we have fallen so far behind. Why is that?"

—**Christine Todd Whitman**
Former Environmental Protection Agency administrator
Co-chair, Clean and Safe Energy Coalition
On the Morning Joe program
MSNBC
May 28, 2009

"Given the scope of the climate problem and the emissions problem, we need to look at all the energy options we have, and nuclear is one of them."

—**Tony Kreindler**
Media Director, Environmental Defense Fund

"My belief, in retrospect, is that because we were so focused on the destructive aspect of nuclear technology and nuclear war, we made the mistake of lumping nuclear energy in with nuclear weapons, as if all things nuclear were evil. ... I think that's as big a mistake as if you lumped nuclear medicine in with nuclear weapons."

—**Patrick Moore**
Co-founder, Greenpeace
Co-chair, Clean and Safe Energy Coalition
As quoted in "A Renegade Against Greenpeace" regarding the green movement
Newsweek
April 12, 2008

"I think a lot of people are kind of stuck in the '70s. ... I think people haven't caught up with the fact that climate change has changed the whole climate of the environmental debate on this planet. The one technology that is contributing most to reducing greenhouse gases in America today is nuclear energy, and we could do a tremendous amount to increase that."

—**Patrick Moore**
Co-founder, Greenpeace
Co-chair, Clean and Safe Energy Coalition
Nov. 9, 2007



THE INTERACTIVE NUCLEUS: STUDENTS TAKE CONTROL OF THE ATOM - NUCLEAR DISPLAY BECOMING A REALITY!

Bill Wabbersen, Jay Bilyeu, both long-time CNTA members and others, have been working on the development of an interactive display that allows science center visitors to virtually enter an atom and modify the protons and neutrons in the nucleus. This is collaboration between the American Nuclear Society-Savannah River Section, the National Science Center at Fort Discover, and CNTA. CNTA is very pleased and proud to assist in funding this display that will help teach children about the positive aspects of nuclear technologies through this hands-on display. The display identifies the name, structure, properties, and uses of the nuclide that is created.

“The Team” fabricated a four foot diameter prototype, three-layer nucleus table. By placing different colored balls, representing protons and neutrons, into precut spots in the table, students create different nuclide combinations. The team focused the exhibit to allow students to create specific “stable” and “radioactive” elements.

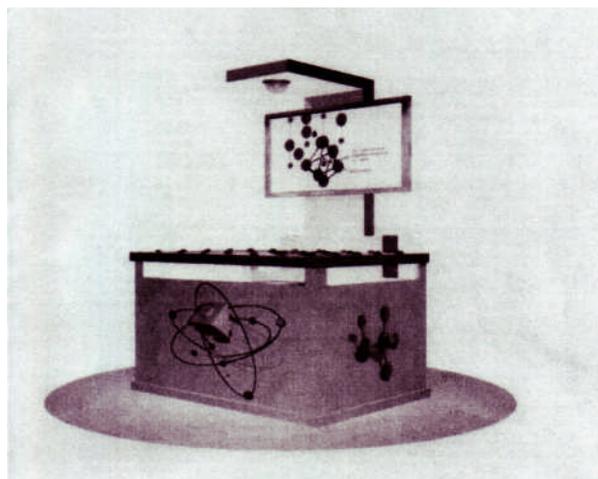
“The Team” has been working since December 2002 to get this from idea...to prototype... to actually signing a contract to build the Nuclear Stand Alone Exhibit. In January 2005, the prototype was tested with five focus groups of children (26 boys and 18 girls) ranging from 3rd to 11th grades. After each session, open-ended questions were asked of the children and Team members were pleased and excited by the positive feedback. The prototype was also active with positive results during Fort Discover’s annual “SRS Technology Days” in February 2005, attended by over 1,300 students. The Team was now confident that the concept of the display would work.

The Nuclear Stand Alone Exhibit will be unveiled on March 1, 2010 at Fort Discovery. Final details will be announced later.

CNTA funding of this project is one more way we can reach “our mission” of providing education and information on all things nuclear.



2005 Prototype



Artist's rendering from
Exhibit Engineering, LLC,
under contract to build the exhibit

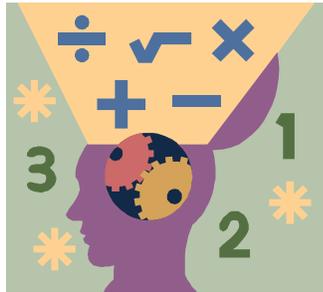
CANDID SHOTS FROM THE 2009 EDWARD TELLER LECTURER/BANQUET



Need for Nuclear Professionals

Article by American Nuclear Society

- **Growing need for nuclear professionals**
More nuclear professionals are needed domestically and internationally.
The demand exceeds the supply of graduates trained in nuclear science and technology.
- Many nuclear professionals are retiring and need to transfer their knowledge to the next generation of experts.
- Nuclear careers exist in the areas of medicine, manufacturing, agriculture, security, and energy.



- **Rewarding career opportunities**
There are many exciting opportunities for careers in nuclear science and technology. Knowledgeable and experienced professionals serve as instructors and mentors to students entering nuclear careers.
- Scholarships, awards, and honors exist for student education and research.
- Nuclear Engineers have the 3rd highest median income among the engineering professions at \$102,000/year.
- **Math and science education is essential**
Support of nuclear science and technology education programs is essential to maintaining our standard of living. Teachers, parents and business leaders must encourage young people to consider rewarding careers in nuclear science and technology.
- A scientifically literate population, educated in math and science, is essential for our national economy and security.
- Ensuring a reliable workforce of highly capable people provides opportunities for saving lives, improving our environment, understanding our world and exploring our universe.

University Exams #1 - Blue Books

In a seminar class of about 250 students, the teaching assistant handed out the final exam of the semester and told the class that they had precisely 50 minutes to complete the exam, writing all of their answers in their "blue books."

He would announce times in advance of the end of the session but everyone had to close their blue books when time was announced and put the completed exams on his desk.

So at the 1/2 hour mark, he announces "20 minutes to go."

At the 3/4 hour mark, he announces "5 minutes to go" and the 250 students are scrambling to write in their best and final work.

At the 50 minute mark, he announces "OK, close your blue books and bring them up to my desk."

All students except one do exactly that. This last student keeps on working, but is unseen in the mass of humanity working their way to drop off their exams on the TA's desk. As the last 20-30 students are putting their blue books in stacks on the TA's desk he sees the remaining student still working, and says "HEY!"

The final student calmly closes his blue book and walks forward to the TA's desk. He walks up to the front of the desk, and stands arrogantly in front of the TA. Before the TA can say anything to him, he asks in a challenging voice, "DO YOU KNOW WHO I AM?"

The teaching assistant, taken aback, says timidly "No."

The student says "Didn't think so," tucks his blue book in the middle of one of the stacks and walks out of the classroom.

Just the Facts!

DID YOU KNOW:

In seven states, nuclear energy makes up the largest percentage of electricity production: These include Vermont (75%), New Jersey (53%), South Carolina (52%), Illinois (49%), Connecticut (48%), New Hampshire (42%), and New York (30%)



JUST A REMINDER! Clint talks about “How time flies!”, can you believe the CNTA Golf Tournament isn’t that far off. **Friday, May 7th is the date.** So start thinking about who you want to team up with, get some practice in and save up to buy lots of raffle tickets!

This will be the 8th year that we’ve held this event.....and each year it gets bigger and better.....because of your support!

CNTAware is published by Citizens for Nuclear Technology Awareness, 1204 Whiskey Rd, Ste B, Aikne, SC 29803, phone 803-649-3456, fax 803-649-3860, email: cnta@bellsouth.net, website: www.c-n-t-a.com.

NOTICE

THE ROBERT MAHER MEMORIAL SCHOLARSHIP INFORMATION WILL BE SENT TO AREA UNIVERSITIES, COLLEGES AND TECHNICAL INSTITUTIONS IN SOUTH CAROLINA AND GEORGIA THE FIRST WEEK OF FEBRUARY.

If you have a son or daughter eligible, go to our website to print out the scholarship eligibility information and application or check with the Financial Aid or Scholarship Administrator of their school.

This is a \$5,000 scholarship awarded to the student who demonstrates an outstanding academic achievement in nuclear science or engineering. The deadline to submit is May 31st. All applications must be received at the CNTA office by that date. Call the CNTA office if you have any questions. 803-649-3456

CNTA would like to thank Savannah River Remediation, LLC for sponsoring the scholarship.

We hope offer this scholarship to more deserving students, if you are interested in sponsoring a scholarship or essay contest, please contact the CNTA office at 803-649-3456 or email to cnta@bellsouth.net