

## Nuclear Industry Veteran Named CNTA Executive Director

Citizens for Nuclear Technology Awareness (CNTA) announced that Dr. James C. Marra has been named the organization's new Executive Director. He began work November 10.

Marra replaces Mike Johnson, who retired from the position in September.

CNTA provides education and information on nuclear technology, including nuclear waste management and environmental remediation; energy sources; medical applications of radiation; industrial applications, including food irradiation; nuclear production processes; and national security.

Marra brings to the position a career filled with many significant jobs in the nuclear arena, which gives him a great breadth of knowledge, said Don Bridges, CNTA Chairman.

"We had many outstanding candidates, but Jim Marra brings exceptional experience in nuclear work," Bridges said. "He not only understands the nuclear industry, he works well with stakeholders and citizens. He will be an asset as we bring important nuclear information to the forefront."

Marra has a Bachelor of Science degree in Ceramic Science and Bachelor of Arts degree in Mathematics (Alfred University, Alfred, NY); a Master's degree in Materials Engineering (Worcester Polytechnic Institute, Worcester, MA); and a Ph.D. in Ceramic and Materials Engineering (Clemson University).

Marra began his nuclear career at the Savannah River National Laboratory (SRNL) as a Senior Engineer and progressed to the level of Advisory Engineer. He also spent time as a Senior Scientist for the U.S. Department of Energy's Office of Environmental Management (DOE-EM).

Marra has numerous notable awards and achievements, including the SRNL Don Orth Lifetime of Merit Award in 2015.

His background includes work in radioactive and hazardous waste immobilization; nuclear nonproliferation; Fukushima Daiichi technical support; DOE-EM International Program leadership; International Atomic Energy Agency consulting; Hanford Waste and Immobilization Treatment Plant technology development and testing; Plutonium Immobilization Program; new production reactor for weapons materials; and production reactor safety rod development.

Marra said he is looking forward to the new challenge of communicating the benefits of nuclear work because it's important for citizens to understand.

"Nuclear plays a role in our everyday lives," Marra said. "I've spent my life involved in nuclear projects, and I know first-hand how much our country needs to keep the nuclear industry viable, and that begins with everyone having a better understanding of what nuclear is and what it does. I look forward to working for CNTA to create a renewed focus."



# Students to Debunk Nuclear Myths—Video Contest

CNTA is hosting its first annual Student Video Contest in which local high school students are being asked to explore the benefits of nuclear technology as they debunk common myths.

The contest is now open; the deadline for submittals is January 27, 2017. Team participants must be enrolled in a school or homeschool within the South Carolina counties of Aiken, Allendale, Barnwell, or Georgia counties of Burke, Columbia or Richmond County. CNTA members' families (high school students) are considered eligible regardless of their county of enrollment. A contestant team is allowed to submit only one video in the competition.

Associations with nuclear weapons and energy disasters often influence students' understanding of nuclear technology; and this contest hopes to encourage learning

and positive engagement with nuclear industries such as energy, research, and medicine.

Students participating in the contest will create short (2-5 minute), original films that focus on the theme of Debunking Nuclear Myths in order to support awareness of the values of nuclear technology and industries. The videos that most effectively and creatively communicate nuclear knowledge will have the opportunity to win a GoPro video camera that will be donated to the participant's school.

Some topics include energy production, nuclear medicine, nuclear material storage, food irradiation, radiation dose, etc.

CNTA has utilized a similar initiative in its written essay contests in the past.

However, contest coordinators Marissa Reigel and Nora Swanson believe that supporting the use of technology will enhance students' interest and participation.

"The CNTA video contest gives high school students in the CSRA the opportunity to explore the facts about nuclear technology and allows them to be creative with how they communicate what they have learned," said Reigel. "I'm always amazed at the insight we receive from the essay contest submissions, and I think this video contest will evoke even more from these students."



ADDITIONAL INFORMATION ON THE VIDEO AND ESSAY CONTESTS CAN BE FOUND ON THE CNTA WEBSITE, [WWW.C-N-T-A.COM](http://WWW.C-N-T-A.COM)

## 2017 CNTA High School Essay Contest

Area high school students now have a chance to earn money for college and for their school, thanks to Citizens for Nuclear Technology Awareness (CNTA).

CNTA is now accepting submissions for the 11th Annual CNTA High School Essay Contest. February 28, 2017, is the deadline for the submittal of essays for the 2017 contest.

High school juniors and seniors are invited to submit a 1,000-to-1,500-word essay on one of the following topics:

Discuss the importance of isotopes in today's medicine and the U.S. dependence on foreign supply.

Discuss the effects of nuclear power plant closures either nationally or internationally. How do these closures affect the stability of the electric grid, the economy of the surrounding areas, and the effect on greenhouse gas emissions?

Discuss the risks of on-site storage of radioactive waste at generator facilities versus the potential risks associated with transporting the radioactive material to a long-term storage facility or repository.

This essay contest is open to eligible students attending a school or home-schooled in Aiken, Allendale, and Barnwell counties in South Carolina and Burke, Columbia, and Richmond counties in Georgia. In addition, 11th and 12th grade children of CNTA members, regardless of their county of residence, may participate.

Each winner will receive a \$1,000 scholarship, and their school will receive \$500. Contest winners, their parents, and representatives from their schools will be recognized at the annual Edward Teller Lecture and Banquet in the fall of 2017.

"The goal of the CNTA Essay Contest is to increase high school student awareness

of nuclear technologies and their impact on society," said Dr. Marissa Reigel, Chair of the CNTA Essay Committee. "Researching a technical topic, relating the information to society, and effectively communicating the information in writing are great skills for any high school student to practice and demonstrate."

To date, CNTA has awarded 35 scholarships totaling \$52,500 to local students and schools.



## 2016 Fred C. Davison Distinguished Scientist Award Winner



The winner of the 2016 Fred C. Davison Distinguished Scientist Award is Dr. Christine A. Langton.

Dr. Langton has worked at the Savannah River Site (SRS) for 33 years. Dr. Langton has a BS degree in geochemistry, a MS in Geochemistry and Mineralogy, and a PhD in Materials Science and Engineering from Pennsylvania State University. She was a research professor in the Department of Material Science at Pennsylvania State University prior to joining DuPont at the Savannah River Laboratory in 1982. She's worked continuously at SRS under subsequent site contractors, save for a four month period when she consulted on Iraqi reconstruction efforts. She's currently a senior advisory scientist at the Savannah River National Laboratory (SRNL).

Using innovative approaches to cementitious materials formulation and deployment, Dr. Langton has provided key concepts and techniques allowing for more cost efficient risk reduction activities. Her work has benefited not only DOE and surrounding communities, but also several other countries including Japan, Australia, Canada, China and Brazil.

At SRS she worked on a variety of projects to permanently dispose of radioactive waste. She played a key role in developing the Saltstone waste form and process, in developing flowable concrete to close eight high level waste tanks at SRS and 11 tanks at INL, and developing concretes and grouts allowing for the In-Situ Decommissioning (ISD) of P and R Reactors at SRS. Thanks to her innovative solutions, the ISD of these two reactors saved taxpayers \$400 million.

Dr. Langton expertise has been put to work at other DOE sites, the International

Atomic Energy Agency, and numerous foreign countries. For example, she was selected to be a principal investigator in a Strategic Partnerships Program in 2013 between Tokyo Electric Power Company and SRNL to assist recovery efforts following the Fukushima Daiichi disaster. In this role she prepared a feasibility study on leak sealing technologies, reviewed test plans and served as a consultant on cements for sealing leaks.

"Dr. Langton has contributed significantly to the advancement of scientific knowledge and application of materials used to capture radioactive waste," according to David Eyler of Savannah River Nuclear Solutions.

Likewise, Dr. David Esh of the U.S. Nuclear Regulatory Commission wrote that, "Dr. Langton is a recognized expert in her field that had demonstrated consistent objectivity and has been open-minded to considering suggestions or new information."

## Siegfried Hecker—Keynote Speaker at 2016 Teller Lecture



Stanford professor and emeritus director of Los Alamos National Laboratory Siegfried Hecker was the guest speaker at the 25th Annual Edward Teller Lecture/Banquet

on October 19, 2016.

Hecker is a professor (research) of Management Science and Engineering at Stanford University and Senior Fellow at both the Freeman Spogli Institute for International Studies and the Standord Center for International Security and Cooperation. He was also the director of the Los Alamos National Laboratory in

New Mexico. Hecker received his Ph.D from Case Western Reserve University in 1968.

Hecker's research includes plutonium science, nuclear weapons policy and international security, nuclear security, and cooperative nuclear threat reduction. He has fostered cooperation with Russian nuclear laboratories to secure the ex-Soviet fissile materials stockpile over the past 22 years. Currently, Hecker's research endeavors focus on the challenges of nuclear India, Pakistan, North Korea, as well as nuclear aspirations of Iran.

He has authored and/or co-authored more than 150 publications since the mid-1960s. Included in these publications are several editorials in the New York Times and dozens of articles in scholarly journals. His most recent publication,

Ending the assassination and oppression of Iranian nuclear scientists, was published in the Bulletin of the Atomic Sciences in 2015.

Among his professional distinctions, Hecker is a member of the National Academy of Engineering; foreign member of the Russian Academy of Sciences; fellow of the TMS, or Minerals, Metallurgy and Materials Society; fellow of the American Society for Metals; fellow of the American Physical Society; honorary member of the American Ceramics Society; and fellow of the American Academy of Arts and Sciences.

# Proclamation from City of Aiken



CITY OF AIKEN, SOUTH CAROLINA

Post Office Box 1177  
Aiken, S.C. 29802



## PROCLAMATION

*Rick N. Osbon*  
Mayor

*Character comes first in Aiken*

**WHEREAS**, the Savannah River Site (SRS) and other community organizations and professionals both locally and worldwide are recognizing Nuclear Science Week, the third week of October; and

**WHEREAS**, thousands of nuclear science professionals are dedicated to the service and progress of the communities they serve with over 10,000 employed at SRS alone and is home to 1 of only 17 nuclear National Laboratories in the country ; and

**WHEREAS**, because of the hard work of a collective community of citizens and professionals who are at the center of this work, the nuclear science industry's goals are always of peaceful applications in the fields of energy, medicine, research, and more; and

**WHEREAS**, nuclear medicine is used in millions of diagnostic and therapeutic procedures every day to improve the health and lives of our citizens; and

**WHEREAS**, nuclear space propulsion systems are being used safely and reliably in robotic missions and science experiments beyond our solar system; and

**WHEREAS**, 100 operating nuclear reactors in the U.S. employ an average of 700 people in 31 states; and,

**WHEREAS**, nuclear energy is a vital part of America's energy portfolio. Nuclear energy already provides about 20 percent of the country's electricity, and over 50 percent of the state of South Carolina's electricity;

**THEREFORE**, I, Rick Osbon, Mayor of the City of Aiken, do hereby proclaim the third week of October as

### NUCLEAR SCIENCE WEEK

in the City of Aiken, and urge all people in our City to join me in the special observance.



  
Rick N. Osbon  
Mayor

---

## STEM Career Connections Put Students on Track

---

STEM Career Connections returned to the KROC Center in Augusta, Georgia on Thursday, Oct. 20.

At least 360 high school students, teachers, career counselors, corporate exhibitors and volunteers participated in hands-on learning opportunities. For the fourth year, the SRS Community Reuse Organization (SRSCRO) joined with local industries to host the highly anticipated event. Twenty-one schools across South Carolina and Georgia were involved in the experience.

STEM stands for Science, Technology, Engineering and Mathematics, and encompasses many subjects in those career fields. Local businesses rely heavily on a workforce with strong STEM skills in nearly every industry, and our region needs engineers, technicians, operators,

mechanics, welders, software developers and computer analysts. During STEM Career Connections, the SRSCRO helps to link employers with students who soon will enter the workforce.

The goal is to help young people better understand the many STEM-related careers available in the local community. At the event, companies shared current technologies including virtual reality and robotics that are used in the nuclear industry and manufacturing. Students participated in panel discussions with local experts and learned about local, high-demand jobs including cyber security and information technology. Students also interacted with area colleges to learn ways to prepare for local STEM careers.

As advocates for a better-prepared workforce, the SRSCRO and its corporate partners are helping to foster relationships with companies eager to hire employees and students interested in the jobs they offer through the annual STEM Career Connections event. (Article and photo provided by SRSCRO.)



---

## CNTA Celebrates 25 Years of Educating the Public on Nuclear Issues

---

Citizens for Nuclear Technology Awareness (CNTA) celebrated the 25-year mark of being a nuclear technology education group with a reception held this week.

During the reception, the new CNTA Executive Director, Dr. Jim Marra, was officially introduced. Marra is the successor to Mike Johnson, who resigned as executive director in September. Other former CNTA executive directors over the last 25 years were also recognized at the event. Additionally, the new CNTA Board Members were introduced.

The sponsor of the event was AECOM, a heritage company at the Savannah River Site that initiated the work that created CNTA.

At the reception, CNTA presented the first annual scholarship of \$1,000 to Aiken Technical College for their Nuclear Training Programs. Marra said supporting local educational institutions is a key part of CNTA's mission.

"CNTA exists to be an education group for all the positive benefits that come from nuclear technology," Marra said. "This group has spent the past 25 years educating the public on nuclear topics from the basics, to nuclear energy, to the Savannah River Site, and anything in between."

At the reception, members of CNTA enjoyed a brief presentation on important CNTA activities and accomplishments, including monthly Up-and-Atom Breakfasts, Legislative Briefings, National Nuclear Science Week endeavors, and involvement with the Savannah River Site Heritage Center.

Annual events sponsored by CNTA include the Edward Teller Lecture, nuclear education workshops for teachers, high school essay scholarship contest, among many other activities.



CNTA presented the first annual scholarship of \$1,000 to Aiken Technical College for their Nuclear Training Programs during the celebration of the organization's 25<sup>th</sup> anniversary. Presenting the check, from left, are Steve Sheetz, Member of the first Board of Directors for CNTA; Jim Marra, CNTA Executive Director; Mary Commons, Director, Aiken Technical College Foundation Board; and Don Bridges, CNTA Chairman. (Photo provided by Aiken Standard.)

**AECOM**



---

# 2016 Corporate Members

---

## **PLATINUM**

CB&I AREVA MOX Services, LLC  
Savannah River Nuclear Solutions  
Savannah River Remediation

---

## **GOLD**

Arthur Rich  
Centerra-SRS  
Fluor Government Group  
Parsons  
Stoller Newport News Nuclear (SN3)

---

## **BRONZE**

Atkins  
Bechtel  
BWX Technologies  
SCUREF  
SouthernCarolina Alliance  
Susan Wood Foundation

---

## **BUSINESS**

Applied Research Center (ARC)  
CH2M  
Economic Development Partnership (EDP)  
North Wind Group  
Rickman Group  
SRS Community Reuse Organization (SRSCRO)

---

## **MEMBERS PLUS**

Josh Booth  
David Eyler  
Frank Jordan  
Carroll Phillips

Don Bridges  
Eddie Estochen  
Munns Advisement  
Bob Sindelar

David DelVecchio  
Rick Ford  
Dave Olsen

## Upcoming Events—2017

|                                       |   |   |                                    |
|---------------------------------------|---|---|------------------------------------|
| <b><u>Up &amp; Atom Breakfast</u></b> | <b><u>ANS-SR/CNTA Co-Sponsored Dinner</u></b> | <b><u>Members Mixer/Annual Report</u></b> | <b><u>CNTA Golf Tournament</u></b> |
| January 11, 2017                      | February 2, 2017                              | March 21, 2017                            | May 12, 2017                       |
| Stuart MacVean, SRNS                  | Location TBD                                  | Newberry Hall                             | Houndslake Country Club            |

Want to Pay by Credit Card (Discover, MasterCard or Visa)?  
Call the CNTA office at (803) 649-3456.  
Registration fees being paid by credit card must be paid in advance.

---

## Teller Lecture Sponsors

---

### **PLATINUM**

Bechtel

CB&I AREVA MOX Services, LLC  
Savannah River Nuclear Solutions (SRNS)

### **GOLD (PRIVATE SPEAKER'S RECEPTION)**

Applied Research Center/Economic Development Partnership  
Atkins  
Georgia Power/Southern Nuclear Company  
Stoller Newport news Nuclear (SN3)

### **CORPORATE**

Centerra-SRS  
Savannah River Remediation (SRR)  
SCANA/SCE&G

### **NON-PROFIT**

Aiken Technical College  
American Nuclear Society—Savannah River  
Rickman Group  
SCUREF  
SouthernCarolina Alliance  
SRS Community Reuse Organization/Nuclear Workforce Initiative  
USC Aiken

We'd also like to thank our individual ticket holders for their support.

---

## Memberships

---

Membership renewals and new memberships are being accepted for 2017!

If you're not sure of your renewal date, or if you want to pay by credit card, please contact the CNTA office at  
(803) 649-3456  
[cnta@bellsouth.net](mailto:cnta@bellsouth.net).

We accept Discover, MasterCard and Visa over the phone or in person.



# 2017 MEMBERSHIP FORM

CIRCLE ONE:      **NEW    RENEWAL**

**MEMBER PLUS—\$250**

**SAME as BENEFACTOR** and includes recognition in printed CNTA materials and at events.

**BENEFACTOR—\$125.00**

**BEST VALUE!** Members receive one Teller Lecture banquet ticket w/reserved seating and one ticket to the private Speaker's Reception; invitations to all events, quarterly newsletters and FREE membership mixers.

**PATRON—\$70.00**

Members receive invitations to all events, quarterly newsletters and FREE member's mixers.

**SUSTAINING—\$35.00**

Members receive invitations to all events, quarterly newsletters and FREE member's mixers.

**STUDENT—\$15.00**

Same as Sustaining. Students must be currently enrolled.

**Your support makes all the difference!** Help us increase public knowledge of all things nuclear and continue our education mission of nuclear technologies!

|  |   |
|--|---|
| NAME:  |   |
| EMPLOYER:  |   |
| HOME ADDRESS:  |   |
| CITY/STATE/ZIP CODE:   |   |
| PHONE/CELL #:  |   |
| EMAIL ADDRESSES:<br><small>(YOU CAN HAVE NOTICES SENT TO HOME AND/OR WORK)</small> |   |
|  | Email is our main means of communication! Be sure to include us on your change of address list if you make any changes to your contact information. |
| REFERRED BY:<br><small>(Name &amp; email address if known)</small>                 |   |

**VOLUNTEER OPPORTUNITIES:** We are seeking volunteers to serve on our committees. If interested, please mark below which committee you are willing to volunteer for:

COMMUNICATIONS: \_\_\_\_\_      EDUCATION: \_\_\_\_\_

MEMBERSHIP: \_\_\_\_\_      TEACHER WORKSHOPS: \_\_\_\_\_

GOLF COMMITTEE: \_\_\_\_\_      GOLF TOURNAMENT: \_\_\_\_\_

SPEAKER'S BUREAU: \_\_\_\_\_

**ENDOWMENT FUND:** I would like additional information on how to gift to the CNTA Endowment Fund \_\_\_\_\_.

We are a Non-Profit 501 (c)3 organization, Federal Tax I.D. #57-0953103; tax deductible based on IRS guidelines

To Pay by Check: Mail to address listed below.  
To Pay by Credit Card: Call the CNTA office at the phone # listed below. We accept Discover, MasterCard and Visa.

CNTA, 1204 Whiskey Road, Suite B, Aiken SC 29803  
Phone: 803-649-3456; Fax: 803-649-3860; Email: [cnta@bellsouth.net](mailto:cnta@bellsouth.net); [www.c-n-t-a.com](http://www.c-n-t-a.com).

For Internal Use Only:

Date received: \_\_\_\_\_ Check/Cash \_\_\_\_\_ Check # \_\_\_\_\_ Credit Card Charge: \_\_\_\_\_ (Yes/No)

Date Entered \_\_\_\_\_