



Tritium 2016

11TH International Conference on Tritium Science and Technology

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Defense Programs Technology, Savannah River National Laboratory

History of International Conference on Tritium Science and Technology

			Publication	Pub Date
•	1 st	1980	Dayton, USA	
•	2 nd	1985	Dayton, USA	Fusion Tech 8, 2 (1985)
•	3 rd	1988	Toronto, Canada	Fusion Tech 14, 2 (1988)
•	4 th	1991	Albuquerque, USA	Fusion Tech 21, 2 (1992)
•	5 th	1995	Belgirate, Italy	Fusion Tech 28, 3 (1995)
•	6 th	2001	Tsukuba, Japan	Fus. Sci. Tech 41, 3 (2002)
•	7 th	2004	Baden-Baden, Germany	Fus. Sci. Tech 48, 1 (2005)
•	8 th	2007	Rochester, USA	Fus. Sci. Tech 54, 1&2 (2008)
•	9 th	2010	Nara, Japan	Fus. Sci. Tech 60, 3&4 (2010)
•	10 th	2013	Nice, France	Fus. Sci. Tech (2015)
•	11 th	2016	Charleston, USA	Fus. Sci. Tech
•	Typically 4 days of meetings; half day of tours; heavy international presence; attendance typically 200-300 from ~13 - 20 countries.			



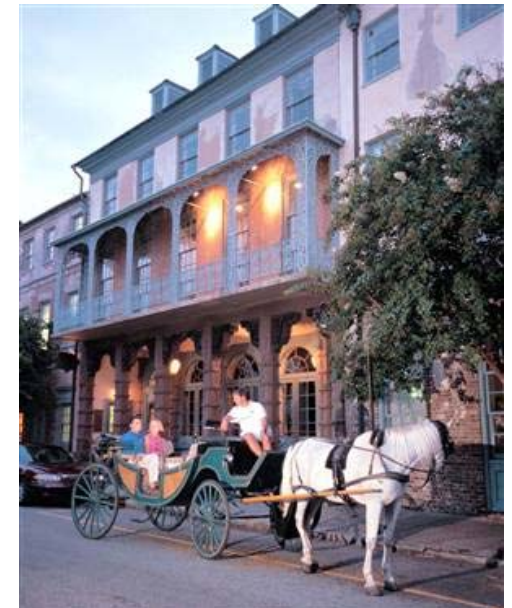
Summary

- **Tritium 2016 will be held in Charleston, South Carolina at the Charleston Marriott hotel in historic Charleston on the Ashley river April 17-22, 2016 (Sunday reception, Friday conclusion).**
- **Host organization: Savannah River National Laboratory**
- **The conference is to be organized as an American Nuclear Society Class One Topical Meeting. To date (July 2015):**
 - **We have calendar placement with the ANS.**
 - **The ANS has a contract with the Marriott Hotel.**
 - **Hotel cost is below US Federal per diem.**
 - **We have preliminary budget approval with the ANS.**
 - **We have publication plan approval to publish a Program book of Abstracts at the Conference and later in 2016 a dedicated issue of ANS Fusion Science & Technology.**
- **Focus: an international meeting with strong links to past.**

Magnolia Plantation Gardens



Charleston Carriage rides



Summary

- Expect 250 attendees (90 oral, 60 poster presentations)
- Full day meetings Monday, Tuesday, Thursday
- Half day meetings Wednesday & Friday
- Technical and local interest tours Wednesday afternoon
- Presentations likely to be:
 - Monday & Friday – plenary sessions
 - Tuesday, Wednesday & Friday: 2 or 3 parallel sessions depending on number of oral presentations submitted
- Topics of Proposed Sessions:
 - Containment, safety and environmental impact
 - Decontamination and waste management
 - Water and air detritiation
 - Tritium processing (purification, isotopic separation, ...)
 - Tritium facilities and operation
 - Biological Effects
 - Interactions with materials
 - Tracer technics and isotopic effects
 - Measurement, monitoring and accountancy
 - Tritium supply, transport and storage
 - Tritium breeding and extraction



Day Trip Tour of Savannah River Site & Aiken

Half day technical tour may include one of:

- Savannah River Site driving tour
- MOX (Mixed Oxide Fuel Fabrication Facility)
- DWPF (Defense Waste Processing Facility)
- SRNL
- Tour of new nuclear reactors being built in US
- Actual technical tour yet to be determined.



Mixed Oxide Fuel Processing Facility



Defense Waste Processing Facility



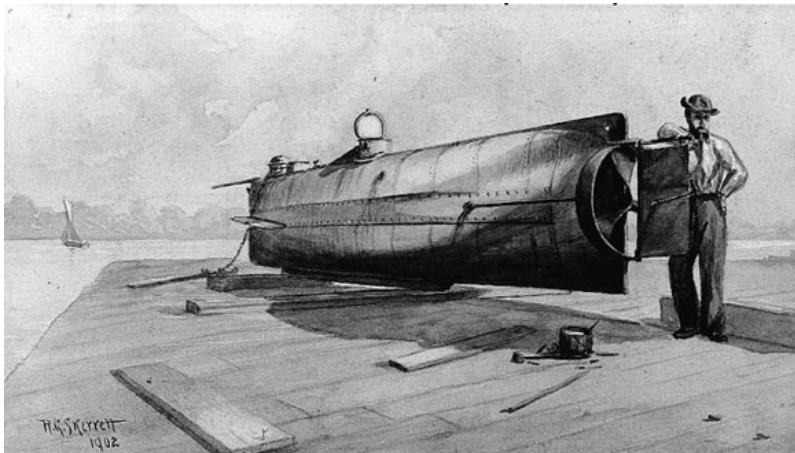
Why Charleston, South Carolina?

- **Historic city of the old south: retains its southern charm**
- **Conde Nast Traveler Magazine Readers' Choice Awards:**
 - In 2014, for the fourth consecutive year, Charleston has been named No. 1 U.S. Tourist Destination city.
 - In 2014, it was also named No. 2 Tourist destination city in the world, behind Florence Italy
- **ANS has held numerous successful conferences at Charleston and at this Marriott hotel.**



What is there to do in Charleston?

- Restaurants with amazing seafood and southern cuisine
- Charleston Harbor tours and dinner cruises
- Historic walking tours or carriage rides
- Tours of old plantations: Magnolia Gardens, Middleton Place, Drayton Hall
- Beaches nearby; deep sea fishing,...
- Visit Fort Moultrie and Fort Sumter (Revolutionary & Civil War forts)
- Restoration of the Civil War submarine the Hunley
- Many art galleries, where you can purchase the art on display
- And shopping



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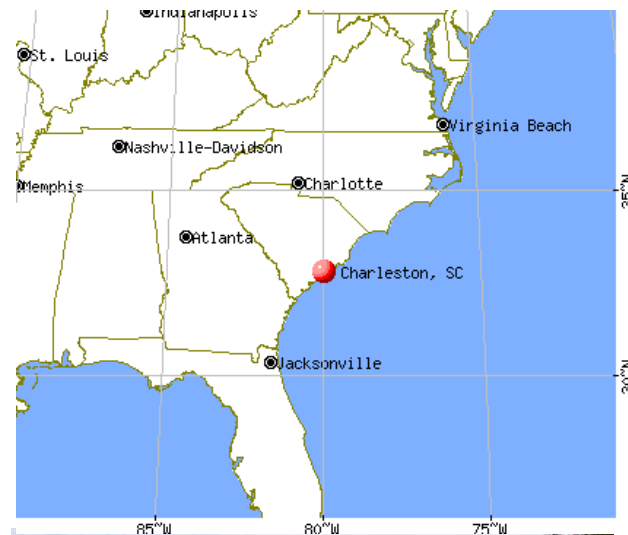
International Steering Committee

2015 Members	Representing
Rob Addis (SRNL)*	US
Walter Shmayda, (Rochester)	ICF
Christian Grisolia (CEA)*	EU
Manfred Glugla (ITER)	ITER
Beate Bornchein (KIT)	EU
Sam Sappiah (AECL)	Canada
Arkadiy Yakhimchuk (RFNC)	RU
Shuming Peng (INPC)	CN
Prof. Yuji Hatano (U. Toyama)*	JA
Toshihiko Yamanishi (JAEA)*	JA
Scott Willms (ITER/L ANL)	Chair



Contact Information

- TRITIUM 2016: <http://tritium2016.org>
- April 17-22, 2016 delightful Spring in the South
- Charleston, SC (Charleston Marriott Hotel)
- General Chair
 - Robert Addis
 - Robert.addis@srnl.doe.gov
- Technical Program Chair
 - Jim Klein
 - James.klein@srnl.doe.gov



Historic Charleston





Tritium 2016

Call for Papers

11th International Conference on Tritium Science & Technology

April 17-22, 2016 ♦ Charleston Marriott ♦ Charleston, SC, USA

Abstracts Due: October ~~16~~ 31, 2015
Author Notification: December 11, 2015
Full Papers Due: April 12, 2016
Final Papers Due: August 2016

Authors should submit 300 word (min.) summaries in English via the conference website <http://epsr.ans.org/meeting/?m=213>. The summary should clearly state objectives, methods, results and conclusions of the work. MS Word format (use template).



<http://tritium2016.org>



ANS



Suggested Paper Topics

- Containment, safety and environmental impact
- Decontamination and waste management
- Water and air detritiation
- Tritium processing (purification, isotopic separation,...)
- Tritium facilities and operation
- Biological effects
- Interactions with materials
- Tracer technics and isotopic effects
- Measurement, monitoring and accountancy
- Tritium supply, transport and storage
- Tritium breeding and extraction
- Others

General Chair:

Dr. Robert P. Addis
Savannah River National Laboratory, USA

Technical Program Chair:

Dr. James E. Klein
Savannah River National Laboratory, USA



TRITIUM 2016

The objective of the conference is to provide a forum for an exchange of information on science, technology, engineering, and general experience in safe tritium handling for fusion, fission, pharmaceuticals, and other unclassified isotopic applications. The 11th edition of this triennial Conference is sponsored by the Fusion Energy Division and cosponsored by Decommissioning and Environmental Sciences and Nuclear Installation Safety Divisions of ANS, and is hosted by the ANS Savannah River Section. Full papers will be published in **Fusion Science and Technology**.

Charleston, SC, USA April 17-22, 2016