



THE *BILLET* STC NEWSLETTER

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OFFICIAL NEWSLETTER of the SOUTH TEXAS CHAPTER of the HEALTH PHYSICS SOCIETY

Features

ExxonMobil Texas Science and Engineering Fair	1
First E-Version!	1
In Remembrance of Dwane Stevens	2
Highlights of STC's April 2012 Meeting in College Station	3
STC-HPS At the Science & Engineering Fair of Houston	4
News In Radiation Safety Meeting	6
	
In Every Issue	
New Members	7
Executive Council Minutes	8
Meeting Information	13
2012 Affiliate Roster	15
Future Meetings & Deadlines	18

ExxonMobil Texas Science and Engineering Fair, March 29–April 2, 2012

John Hageman


The winner of the South Texas Chapter's Award for the best radiation related project was Joseph Langas, of San Antonio, Texas. Joseph's project was "A Comparison of Metaheuristic Techniques for Optimizing Gamma Knife Inverse Treatment Planning." An abstract of his project follows:

The purpose of this study was to determine if the Firefly Algorithm (Yang) or a genetic algorithm would provide viable alternatives to the simulated annealing technique used in Leskell GammaPlan (Elekta) to create potential tumor treatment plans for Leskell Gamma Knife.

To determine the viability of each algorithm, three classes were created that each used one of the algorithms to generate Gamma Knife treatment plans. All of the classes created in this study were written in Java due to its objected-oriented paradigm and cross platform compatibility. The Simulated Annealing class utilized an annealing algorithm based on the commercial Leskell GammaPlan software, and was intended to provide an accurate baseline for comparing the performance of the other algorithms. The

Firefly Algorithm class utilized and algorithm based on the work of Xin-She Yang that mimicked the behavior of fireflies in order to search all possible treatment to find an acceptable solution. Finally, the Genetic Algorithm class mimicked natural selection and breeding among a population of potential solutions to generate acceptable solutions. Each of the classes was then run through a variety of tests to determine its effectiveness.

Throughout the tests performed on the algorithms being compared in this study, the Firefly algorithm and genetic algorithm frequently outper-

formed the simulated annealing algorithm. This suggests that these algorithms could potentially be of use in a commercial setting. Further testing with a wider variety of variables and in a more realistic treatment planning environment could further support the viability of these algorithms for planning Gamma Knife treatments. 



Joseph Langas and Frank Iddings at the ExxonMobil Texas Science and Engineering Fair

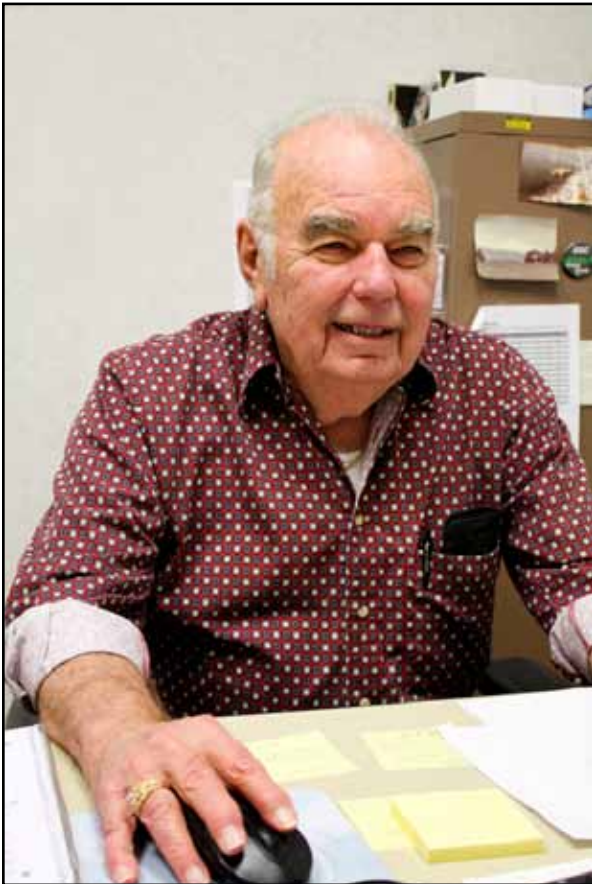
First E-Version!



To better serve our members in the 21st century, the STC is now offering *The Billet STC Newsletter* as an exclusively online publication. Initially, the electronic version of *The Billet* will be identical to the past printed and PDF version that is currently available to members. It will continue to be a downloadable PDF file for those who wish to make a printed copy.

In Remembrance of Dwane Stevens

Dwane Stevens, 80, of Sweetwater and Ludlum Measurements died Friday, July 20, 2012, in Sacramento, Calif., where he was attending the 45th Annual Meeting of the Health Physics Society. He was born on July 14, 1932 in Big Spring. He married Alma Jane Pence on July 19, 1952 in Coleman. Dwane worked for Ludlum Measurements for 45 years. He was on the board of directors of Goodwill Industries and




Dwane Stevens

the board of directors of Texas State Technical College. Dwane was a member of the Kiwanis Club and a loved member of the South Texas Chapter of the Health Physics Society (STC-HPS).

Dwane loved his family and loved to travel. He never took a vacation; instead, he considered when his wife, Jane, was with him traveling for work to be his vacation. He also loved his two dogs, Charlidille and Nicholas.

Survivors include his wife, Jane Pence Stevens of Sweetwater; sons, Randall Stevens and wife Joanna of Sweetwater, Blake Stevens of Sweetwater, and David Stevens and wife Kim of Dallas; daughters, Carole Stevens of Sweetwater, Brenda K. Stevens of Sweetwater, and Elaine Smola and husband of Stephenville; brothers, Paul Stevens and wife Pam of Sweetwater, Howard Stevens and wife Karen of Big Spring; nine grandchildren; and one-great grandchild.

The entire STC will miss Dwane's great smile and helpful and wonderful attitude. 

STCAdmin

President

Janet Gutiérrez
UTHSC-H
Environmental Health & Safety
Houston 713-500-5844
janet.r.mccrary@uth.tmc.edu

President-Elect

Scott (Nick) M. Nichelson
US Army
AMEDD
Fort Sam Houston 210-221-8833
scott.nichelson@amedd.army.mil

Past-President

Jennifer A. Cerecero
UTHSCSA
Environmental Health & Safety
San Antonio 210-567-2960
watsonj@uthscsa.edu

Secretary

Kayla Evans
TCEQ
Radioactive Materials Division
Austin 512-239-0893
kayla.evans@tceq.texas.gov

Treasurer

Ed Bailey
2804 Misty Shore Lane
Plugerville 512-934-2357
edbaileychp@msn.com

Treasurer-Elect

Vacant

Board Members

John Salsman (10-13)
TAMU
Environmental Health & Safety
College Station 979-862-8116
jmsalsman@tamu.edu

William Pate (11-14)
University Health System
Environment of Care Department
San Antonio 210-358-2461
william.pate@uhs-sa.com

Warren Snell (12-15)
The Methodist Hospital
Research Institute
Houston 713-441-6416
wdsnell@tmhs.org

Editor

John P. Hageman
Southwest Research Institute®
San Antonio 210-522-2633
STCEditor@swri.org

Managing Editor

Bryan Dempsey
Southwest Research Institute
San Antonio 210-522-2711

Associate Technical Editor

Susan Jablonski
TCEQ
Austin 512-239-6731
SJABLONS@tceq.state.tx.us

Graphic Designer

Jean Fox
Southwest Research Institute
San Antonio 210-522-2839

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The South Texas Chapter of the Health Physics Society (STC-HPS) is a professional society that was organized and chartered in 1964. Its objectives are to:

- Develop scientific knowledge in the study of radiation
- Devise practical means to protect people and their environment from harmful effects of radiation
- Provide and support meetings to discuss scientific endeavors
- Encourage scientific research and education dedicated to the science of radiation protection
- Aid in research and education opportunities in health physics and radiation protection for college and university students

Highlights of STC's April 2012 Meeting in College Station

Janet M. Gutiérrez

As the football fans within the Chapter are looking forward to a new season with their favorite teams (Gig 'Em Aggies), we can take a few minutes to look at the highlights from the April 2012 STC Meeting, by Kyle Field on Texas A&M Campus. Many meeting attendees were able to catch a few minutes of a Texas A&M University football scrimmage game during some of the breaks. In addition to excellent student presentations from six different schools, we were also treated with two unique professor presentations.

Bob Emery, DrPH, CHP, from The University of Texas Health Science Center at Houston provided the lunchtime presentation on educating the public about radiation, specifically addressing how the framing of the message plays a key role in how the message is received. After the unfortunate event at the Fukushima nuclear reactors in Japan, we have learned the public has an appetite for learning more about radiation. This year, students were also given the opportunity to participate in the competition by presenting a critical review of a recently published paper that postulates that approximately 14,000 deaths in the United States could be linked to exposure from radiation from the Fukushima nuclear reactors in Japan. Boris Tsenov, presented a critical review of this article, and we encourage students next year to consider this critical review option.

Health physics students, from [six schools](#) in Texas, participated and provided interesting presentations on a panoply of topics on April 14, 2012, at the edge of Kyle Field in College Station, Texas. The six participating schools were: Texas A&M University (TAMU), Prairie View A&M University (TAMU-Prairie View), Texas State Technical College (TSTC), University of Houston-Downtown (UH-D), The University of Texas Health Science Center at Houston (UTHSC at Houston), and The University of Texas Health Science Center at San Antonio (UTHSC at San Antonio). The judges remarked that presentations this year were so well polished, they had a challenging time determining the first and second prize winners. Awards were given to the following individuals:

Graduate Awards

- 1st - Matt Grypp, *Gamma Radiation Detection from a Spreader-bar Crane at the Port of Tacoma*, Graduate, TAMU
- 2nd - Michael Hackemack, *Production of At-211 at the Texas A&M Cyclotron*, Graduate, TAMU

Bachelors Awards


- 1st - Alberto Urbina, *Thermal Properties of Granites for Depositories of Spent Nuclear Fuel*, UH-D
- 2nd - Aaron Pfeil, *Comparison of Spent Fuel Composition for a Typical PWR Fuel Using MCNP and ORIGEN*, TAMU-Prairie-View

Associate Awards

- 1st - Kevin Pustejovsky, Vickie Hurst, and Paul Strickland, *Radiation Monitoring at Texas Municipal Solid Waste Landfills*, TSTC
- 2nd - Marc Goldsmith, *Dose to Lung Resulting from Marlboro Red Cigarette Smoke & Stationary Low-Pressure Reactor Number One: An Accident Review*, TSTC

Congratulations and thank you to all the student presenters for helping to make our April 2012 meeting a huge success.

- Boris Tsenov, *Fukushima Article Critical Review*, Graduate, UTHSC at Houston
- Dapeng Lao, *TOF-PET Imaging Within the Framework of Sparse Reconstruction*, Graduate, TAMU
- Fada Guan, *Geant4 Monte Carlo Dose Calculation for Prostate Cancer Treated with Proton Therapy*, Graduate, TAMU
- Jordon A. Evans, *Enhancing Targeted Radionuclide Therapy using Nanotechnology*, Graduate, TAMU
- T. Michael Martin, *Removal and Disposal Measures Taken for Tritium Powered Exit Signs at Texas A&M University*, Graduate, TAMU
- Xudong (Alan) Wang, *Neutron Dose Equivalent Outside and Inside the Treatment Vault of GRID Therapy*, Graduate, UTHSC at San Antonio

Last but not least, I would like to thank all the professors of these six schools who encouraged the students to participate in the South Texas Chapter meeting. Next year we hope to continue to have participation from these six schools. 

South Texas Chapter - Health Physics Society At the Science & Engineering Fair of Houston, March 2, 2012

Janet M. Gutiérrez

STC-HPS officers, Janet Gutiérrez and Sam Daniel, participated as special awarding judges at the March 2, 2012, Science & Engineering Fair of Houston (SEFH) at the George R. Brown Convention Center in Houston, Texas. Janet and Sam reviewed approximately 1100 student projects (Grades 7–12), from approximately 145 schools in the greater Houston area for radiation-related projects. Approximately 35,000 projects were entered in the preliminary school/district fair competitions. The SEFH is the largest fair of its type in Texas; it is one of the largest in the world. This year there were enough radiation projects to focus on judging the ionizing radiation related projects. While all the radiation projects judged were interesting, the following were the award winners for 2012.

Given the size of the SEFH, we would welcome any greater Houston residents from the South Texas Chapter to consider participating as a judge next spring. Contact Linda Morris with Texas State Technical College if you are interested in participating as a judge for the Chapter. To find out more information specifically about SEFH, go to <http://hunstem.uhd.edu/SEFH/>. This is a great opportunity to encourage the youth to participate in radiation safety and health physics related projects. Because of their contact with health physicists, you never know when fairs like this may spark a student's interest in a career in radiation safety.

Junior First Place

Junior (Grades 7–8) • 1st Place Winner
Kiana Bahrami from Harmony School of Discovery in Houston, Texas.

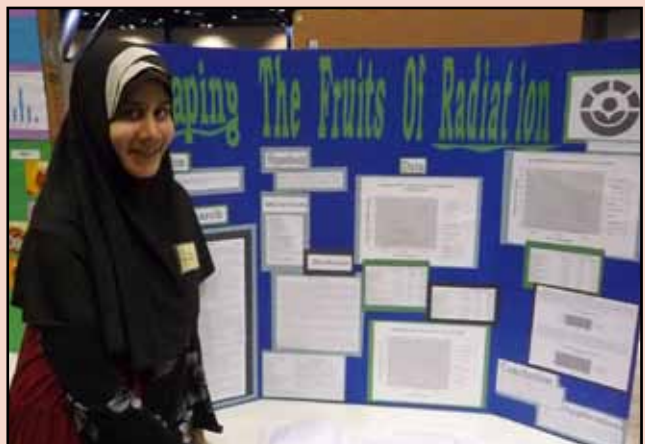
Project Title: X-rays with Adhesive Tape: Kiana used different adhesive tapes within a vacuum chamber that were counter outside the chamber with a GM as well as identified with x-ray film. The x-rays were generated during the rotation of the tapes. For duct tape, she received the highest number of counts per minute (CPM), 162, with a background of 52 CPM. She also presented an x-ray image of her fingers and a paperclip.



Junior Second Place

Junior (Grades 7–8) • 2nd Place Winner
Zoha Khan from McCullough Junior High in The Woodlands, Texas.

Project Title: Reaping the Fruits of Radiation: Zoha researched the different types of irradiation (gamma & x-ray) in food treatment as well as UV sterilization. At her school, she had a UV cabinet, so she treated strawberries, bananas, apples, parsley, lettuce, and green chili peppers to UV at different levels of food development and tested the produce for bacteria after the produce had been treated. She found the produce that had been treated the longest with UV had the lowest levels of bacteria.



Grade 9 First Place

Ninth (Grade 9) • 1st Place Winner

Scott Langford from Clear Falls High School in League City, Texas.

Project Title: Home Detection of alpha-particle

Radiation: Scott used CR-39 plastic and exposed the chips to samples of drinking water for one month. He then counted the alpha particle holes etched within the plastic under a microscope after the CR-39 plastic was soaked in sodium hydroxide. After statistical analysis, he was able to identify the presence of alphas in the drinking water.



Senior Honorable Mention

Honorable Mention • Senior

Emily Beisert from Clear Lake High School, Houston, Texas. She is a previous winner who presented a very good continuation project.

Project Title: The Energy Spectrum of Granite's Radiation: Emily used crushed-screened samples of granite, a Tc-99 check source and food grade potassium-chloride to test the radiation detected with an unshielded NaI detector and with different shields of plastic wrap, parchment, cloth, aluminum foil and aluminum disks. She concluded from the experiment that granite poses little danger to humans in their homes, as they have clothes, skin, and air blocking granite radiation, so the radiation will have difficulty passing through the epidermis.



Junior Honorable Mention

Honorable Mention • Junior

Miriam Matney from Westbrook Intermediate, Friendswood, Texas. She is a previous winner who presented a very good continuation project.

Project Title: Containing Antimatter Part II: As a continuation from last year, Miriam performed her experiment within a vacuum rather than in open air. She also looked at different containment methods (Penning or Paul traps) to see which method would yield the highest antimatter. She used a geiger counter to count the annihilation photons and estimated the number of positrons for the photons counted.



News In Radiation Safety Meeting Houston, May 21, 2012

Danette R. Fennesy

Radiation Safety specialists met again in Houston, on May 21, 2012, for another News In Radiation Safety (NIRdS) lunch meeting to discuss current issues that the Texas Medical Center Institutions are facing.

Dr. Susanne Savely, RSO of Baylor College of Medicine, and her Radiation Safety team hosted this Spring-2012 meeting. It was attended by physicists, radiation safety officers (RSOs), specialists, technologists and other interested parties.


The Houston Police Intelligence Officer, Robert Mireles, from the Houston Fusion Center, was also present. As the local law enforcement agency contact for the Texas Medical Center, Sgt. Mireles gave an update on what is being done to promote community awareness and encourage vigilance against radiological terrorism. He distributed CD's that offered suggestions for this endeavor as well as how to prepare for emergency situations.

Otu Inyang, University of Houston's RSO, inquired about Department of Transportation (DOT) training classes that were "hands on" which led to suggestions about vendors' offerings, as well as a discussion regarding FedEx versus UPS for radioactive materials shipping.

Danette Fennesy, Medical Physicist at Harris County Hospital District, asked others for additional information regarding the settings/use of radiation monitors to screen for contaminated waste. It seems that Stericycle, a biohazard disposal company, detects the most problems with waste contaminated with radioactive materials—and they have their alarm set at 25 microR/hr. Waste Management has their landfill alarm set at 8 microR/hour, which uses a "drive through" portal monitor. Most hospitals in attendance have radiation monitors in place so that waste contaminated with radioactive materials is not inadvertently leaving their institution.

Travis Halphen, of the University of Texas Health Science Center at Houston (UTHSC at Houston), gave a report on changes that will be happening during the next few months with the personnel monitors issued by Landauer. Apparently, Landauer is in the process of overhauling their system and implementing a new online user interface called "MyLDR" to replace the previous systems like LISN, eSolutions, etc. He said that while a number of changes will be made, it does appear that the new version will be much easier to use and it seems to be to the customer's advantage. In addition, Boris Tsenov, UTHSC at Houston, shared information on training webinars available through Landauer. In regard to changes, Danette Fennesy remarked that she had been asking Landauer for years to make the change to have the ring badge colors match the whole body badge colors that are distributed each month, which would make things more convenient for those collecting/distributing badges. Others agreed that it would be much easier if Landauer had matching colors and Mrs. Fennesy suggested that if Landauer heard this from other customers perhaps they might make the change.

Promoting "As High as Reasonably Achievable" (AHARA) in the Journal of the American College of Radiology, was the final presentation of the afternoon by Dr. Lou Wagner. In his talk, Dr. Wagner stressed that we need to change our mindset to benefits versus risks, instead of concentrating on the radiation risk alone when evaluating the use of medical radiation as used in CT/Nuclear Cardiology, etc. It was an eye-opening talk in which he suggested that ALARA be replaced with AHARA, encouraging the choice of the exam to be made by medical professionals to provide the highest medical benefits to risks ratio for the patient.

NIRdS will host its next meeting in the fall of 2012, with the location and host to be announced. 

Changing your EMAIL ADDRESS? Any PHONE NUMBER changes?

Notify Amanda Sullivan at sullivan@uthscsa.edu

MEMBER and AFFILIATE APPLICATIONS are available at www.stc-hps.org

The SOUTH TEXAS CHAPTER of the HEALTH PHYSICS SOCIETY, INC.

welcomes our

NEW MEMBERS



Harvey Duve
*Texas State Technical
College - Waco*
Student

Erich Fruchtnicht
Texas A&M HSC
Student

Rebecca Guthrie
*Texas State Technical
College - Waco*
Student

Sangho Nam
University of Houston
Student

Kevin Pustejovsky
*Texas State Technical
College - Waco*
Student

Jim Bell
ADCO Services
Regular

Rodney Croslen
AECOM
Regular

Jack Burn
Energy Lab
Regular

Sandra Jimenez
UT MD Anderson CC
Student

Aaron Pfeil
Prairie View A&M
Student



We wish them well in all their endeavors and especially hope that their association with the South Texas Chapter will be long and mutually rewarding!

SOUTH TEXAS CHAPTER *of the* HEALTH PHYSICS SOCIETY, INC.

Minutes of the Executive Council Meeting

April 13, 2012

Amanda Sullivan, Secretary

Persons in Attendance

Executive Council (EC) Members:

Karen Blanchard ... Past-President/ Science Teacher Workshop Chair
 Jennifer Cerecero .. President
 Janet Gutiérrez..... President-Elect/ Programs Committee Chair
 Amanda Sullivan ... Secretary
 Edgar Bailey Treasurer-Elect
 Sam Daniel EC Member
 John Salsman EC Member
 William Pate..... EC Member
 Pete Myers..... Treasurer-Elect/ Membership Committee Chair

Committee Chairpersons:

Karen Myers..... Admissions Co-Chair/
 Publications Co-Chair
 John Hageman..... Editor – *The Billet*

Chapter Members & Guests:

Ken Krieger..... STC Member & Guest
 John White STC Member & Guest

Agenda Item	Discussion	Action
Call to Order 5:30 p.m.	Quorum established.	N/A
Agenda Approval	Move to approve with addition of National Report and New Issues Motion: John Salsman Second: Karen Blanchard	<i>Committee Vote:</i> Approved
February 2012 STCHPS Executive Meeting	Motion to approve the minutes from the January meeting Motion: Janet Gutiérrez Second: Karen Blanchard	<i>Committee Vote:</i> Approved
President's Report	Election Results – In the future, winners should be invited to the EC meeting since we can see the results electronically and no longer need to count ballots.	
	HPS Nominations – Bob Cherry asked for a letter of support for his nomination to run for President-Elect of the HPS. The letter was e-mailed to the HPS along with the EC members. In addition, Ken Krieger requested support for his nomination to the Board of Directors. This was also submitted.	
	Committee Chairs – After discussion at the last meeting regarding committee chairs, the following are being appointed by the President: <ol style="list-style-type: none"> Other/Ad Hoc – Mike Charlton Public Relations – Darice Bailey Publications – Bill Harding 	
	Chair Vacancies – The membership chair and nominations chair will be available at the end of tomorrow's meeting. The outgoing President recommends that the new President appoint Amanda Sullivan as Membership Chair and Jennifer Cerecero (Watson) as Nominations Chair. The outgoing President will work with George Espinosa on the administrative side of the Affiliate Chair position and George will work the technical arrangements side for the local affiliates fairs.	

continued on page 9

Agenda Item	Discussion	Action
President's Report <i>continued</i>	<p>Finance Committee for Bylaws:</p> <ol style="list-style-type: none"> Consists of Chair and at least three members Members shall be the Treasurer, Past-President, immediate Past-Treasurer or Treasurer-Elect and one member at large The Treasurer would chair the committee Responsible for implementation of the Financial Management –Investment policy Responsible for implementation of investment decisions Required to meet at least annually with the Investment Consultant/Manager to review results of investment strategies Shall review the Financial Management-Investment Policy periodically, but not less than annually. All reviews should be reported to the EC and the General Membership at the Annual Business Meeting Shall prepare a proposed Annual Budget for approval by the Executive Committee of the STC 	<i>Committee Vote:</i> Approved
	Note from the President Cerecero: I want to thank the EC for a wonderful term as President. We have grown a lot as a chapter renewing Affiliates from previous years, gaining committee chair support, establishing a finance committee and financial plan, and working towards growing as a chapter.	
President-Elect's Report	We had a special edition STC Breakfast meeting at the HPS Mid-Year in Dallas on February 7, 2012. Karen Blanchard provided us with a presentation regarding a database of radiation safety professionals to use in emergencies for population monitoring.	
	April 13–14, 2012, Annual Meeting in College Station. I would like to thank Dr. John Poston and John Salsman who provided valuable assistance in coordinating the meeting. We have about 67 people registered to attend. Dr. Emery will provide the lunch time presentation. This year, students could also give a presentation on the critique of a specific article or the traditional student radiation project of their choice.	
	July 24, 2012, Tentative plans for the STC traditional Breakfast meeting at the Annual HPS meeting in Sacramento, CA.	
	September 2012, Fall meeting in Austin, topic TBD.	
Past-President's Report	No new developments to report. Still no word from Bob Free about the development of a radiation response volunteer corps in the state.	
Secretary's Report	No report at this time.	
Treasurer's Report	<p>The total assets of the Chapter are \$141,782. \$3,500 is expected as a total payout on investments for 2012.</p> <p>Motion to approve the Treasurer's Report Motion: Karen Blanchard Second: John Salsman</p>	<i>Committee Vote:</i> Approved
Membership Report	<p>Current STC membership is at 224 members. Voted on new members.</p> <p>Motion to accept members Motion: Karen Blanchard Second: Amanda Sullivan</p>	<i>Committee Vote:</i> Approval of new STC members. Congratulations!

continued on page 10

Agenda Item	Discussion	Action
<p>WELCOME NEW STC MEMBERS!</p>	<p>New Members: Harvey Duve – TSTC Erich Fruchtnicht – Texas A&M HSC Rebecca Guthrie – TSTC Sangho Nam – University of Houston Kevin Pustejovsky – TSTC Jim Bell – ADCO Services Rodney Croslen – AECOM Jack Burn – Energy Lab Sandra Jimenez – UT MD Anderson CC Aaron Pfeil – Prairie View A&M</p>	
<p>Web Master’s Report</p>	<p>New online payment system: transitioning from Paymentech to PayPal for processing of online payments. Test site has been set up and will be made to go live after this meeting.</p> <p>Transactions performed online receive non-profit discount transaction rates of 2.2% + \$0.30 per transaction.</p>	
	<p>Social Media for STC-HPS:</p> <p>Various social media technologies allow new ways to communicate information to our members and allow our members to interact amongst themselves. Common examples include Facebook®, Twitter® and LinkedIn®.</p> <p>Twitter: @STC_HPS</p> <p>LinkedIn Group: South Texas Chapter of the Health Physics Society</p> <p>Facebook Page: https://www.facebook.com/STCHPS</p> <p>If the EC agrees that we want to begin using these resources, I can add links to the STC-HPS homepage and we can send out a blast email to members letting them know.</p>	
<p>Legislative Committee’s Report</p>	<p>No report at this time.</p>	
<p>Affiliate Committee’s Report</p>	<p>No report at this time.</p>	
<p>Nominations Committee’s Report</p>	<p>Another successful election!</p> <p>Karen Blanchard would also like to nominate Ken Krieger for Volunteer of the Year for all of his hard work with the Dallas Mid-Year Meeting.</p>	<p><i>Action Item:</i> What is needed to submit for this award?</p>
<p>Publications Committee’s Report</p>	<p>No report at this time.</p>	
<p><i>The Billet</i></p>	<p>Future Meeting Dates: National meeting in Sacramento, CA, July 22–26, 2012. Chapter meeting (topic TBD) in Austin, TX, September 15, 2012.</p>	

continued on page 11

Agenda Item	Discussion	Action
Science Teacher Workshop (STW)	<p>There have been no new developments with Mr. Eddie Selig and his attempts to secure funding to support the work they proposed in assisting with our Science Teacher Workshops.</p> <p>There are currently no workshops scheduled in the near future.</p> <p>The STW records and supplies have been successfully transferred. Since we are unsure as to when Mr. Selig will be able to provide coordination of workshops, We will resume efforts to solicit venues for our workshops.</p>	
Student Assistance Committee	<p>Science Fairs – The STC participated in two regional science and engineering fairs and the ExxonMobil Texas Science and Engineering Fair. The winners are:</p> <p>Austin Energy Regional Science Festival (Feb. 22–25, 2012) Senior Division: Hannah-Elyse Konyecsni, James Bowie High School, <i>“The Effects of Common Materials on Cosmic Ray Shielding.”</i> Junior Division: Govind Girish, Canyon Vista High Middle School, <i>“Alternative Fluids for Efficient Heat Exchange in Pressurized Water Reactors.”</i> (Repeat Winner)</p> <p>Science and Engineering Fair of Houston (Mar. 1–3, 2012) Junior First: Kiana Bahrami, Grade 7, Harmony School of Discovery, Houston, <i>“X-Rays with Adhesive Tape.”</i> Junior Second: Zoha Khan, Grade 8, McCullough Junior High, The Woodlands, <i>“Reaping the Fruits of Radiation.”</i> Grade 9 First: Scott Langford, Grade 9, Clear Falls High School, League City, <i>“Home Detection of Alpha-Particle Radiation.”</i> Honorable mentions to two previous winners: Emily Beisert for her project <i>“The Energy Spectrum of Granite’s Radiation,”</i> and Miriam Matney for her project entitled <i>“Containing Antimatter.”</i></p> <p>ExxonMobil Texas Science and Engineering Fair (Mar. 29–Apr. 2, 2012) Winner: Joseph Langas, San Antonio, <i>“Optimizing Gamma Knife Inverse Treatment Planning.”</i></p> <p>The regional award winners were given a 7x9 inch plaque, a Chart of the Nuclides, and a one-year complimentary student membership to the STC-HPS. The Texas winner received an 8x10 inch plaque, a \$50 check, and the student membership.</p> <p>Thanks must be extended to our judges. They had hundreds of projects to sort through to find the ones related to radiation. Our gratitude is extended to:</p> <p>Houston: Janet Gutierrez and Sam Daniel. Austin: Kayla Evans and Annie Backhaus ExxonMobil: Frank Iddings</p>	

continued on page 12

STCMinutes

Agenda Item	Discussion	Action
	Education Grants for Associate Degree and Graduate Degree Students: The applications are available in <i>The Billet</i> . The deadline for the applications is May 25, 2012. Applicants must be members in good standing of the STC. The grant is for \$1,000 per award. The Neff-Poston award will be made in the fall to an undergraduate Radiological Health Engineering student at Texas A&M University. This award is approximately \$1,250.	
	Student Paper Presentation: Students will present their papers tomorrow. As usual, there will be three levels of competition: Associate, Undergraduate, and Graduate. Two awards will be presented at each level (1 st - \$250, 2 nd - \$100). Please select three judges at this meeting tonight.	
Adjournment	7:04 p.m. Motion: Ed Bailey Second: Amanda Sullivan	

As a courtesy to our membership, the STC-HPS offers a list of the Health Physics-related positions available in South Texas on our Web site.

 www.stc-hps.org/hpjob.htm

SOUTH TEXAS CHAPTER *of the* HEALTH PHYSICS SOCIETY, INC.

Executive Council Meeting & Technical Meeting (Non-ionizing Radiation)

September 14–15, 2012, Austin, Texas

Executive Council – Friday, Sept. 14, 2012
6:30 to 8:30 p.m.
DoubleTree Hotel - University Area Rm. TBD

Technical Meeting – Saturday, Sept. 15, 2012
8:30 a.m. to 4:30 p.m.
DoubleTree Hotel - University Area Rm. TBD

**CEUs
Awarded
for LMPs,
MRTs***

* pending approval


The theme for the technical meeting is non-ionizing radiation. We will have speakers from various aspects of the non-ionizing radiation field to include regulatory aspects, potential hazards, bioeffects research, and program management aspects from both lasers and radiofrequency radiation emitters.

The agenda will be posted on the STC-HPS website, www.stc-hps.org.

The block of rooms is being held under the Chapter's name and can be booked online through the Hilton Web site using the group code: STC. Use this web link:

[DoubleTree Reservations](#) or access it from the STC-HPS Web site.

The DoubleTree University Area hotel is located at 1617 IH-35 North (NOTE: This is not the same DoubleTree Hotel as the

chapter has used in the recent past). The hotel has free parking and is about a 15–20 minute walk from the 6th Street nightlife area, if you want to indulge yourself either the night before or after. Additional room information can be found by following the link below, or by calling the hotel directly. The rate for rooms is \$108 with a reservation deadline of August 29, 2012. 

[DoubleTree Reservations](#)

**Register online for the
Executive Council and
Technical Meetings at
www.stc-hps.org**

**Reservation deadline
is Aug. 29, 2012**

Go to www.stc-hps.org for meeting agenda, information, and registration details.

Executive Council Meeting & Technical Meeting (Non-ionizing Radiation)

Accommodations & Directions

Doubletree University Area, 1617 IH-35 North • Austin, TX 78702 • Phone 512-479-4000

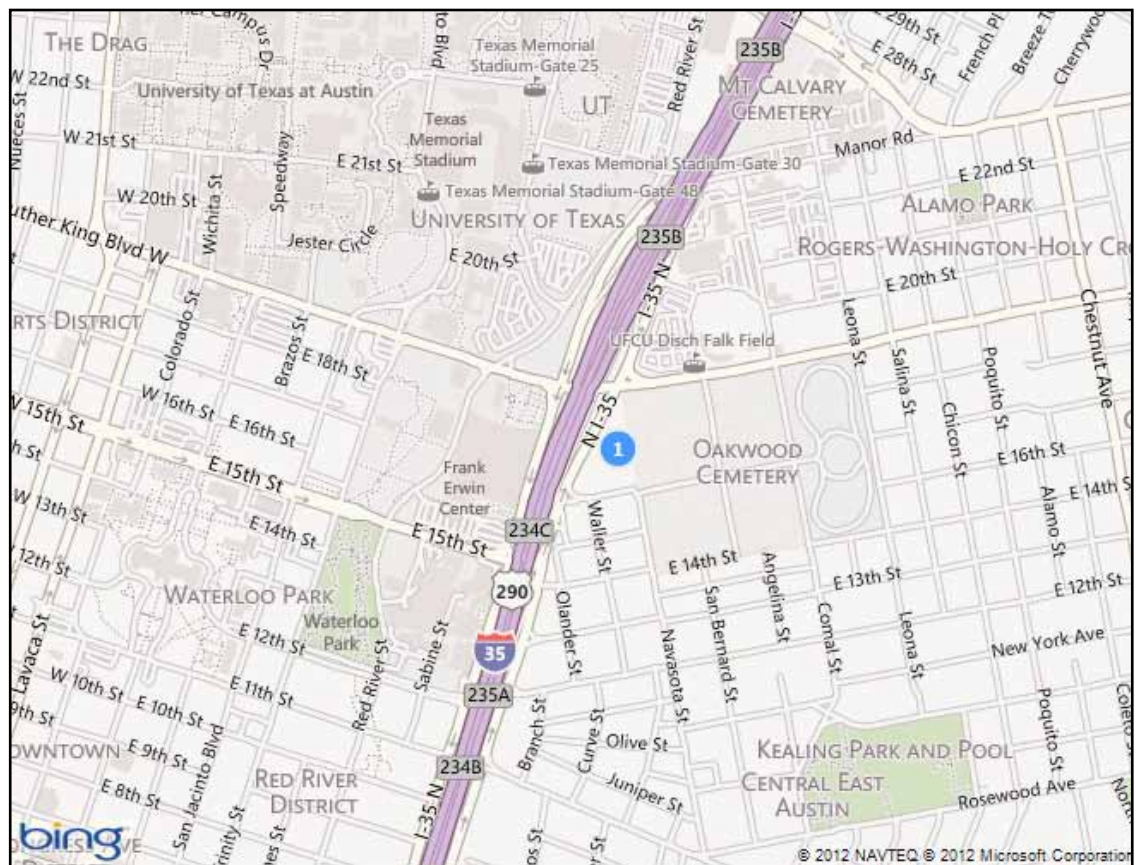
The block of rooms is being held under the Chapter's name and can be booked online through Hilton using the group code: STC. The website link is also posted on the STC-HPS website.

The Doubletree University Area hotel is located at 1617 IH-35 North (NOTE: This is not the same Doubletree Hotel as the Chapter has used in the recent past). The hotel has free parking and is about a 15–20 min walk from the 6th Street nightlife area if you want to indulge yourself either the night before or after. Additional room information can be found by following this link, or by calling the hotel directly. The rate for rooms is \$108 with a reservation deadline of August 29, 2012. 🇺🇸

Directions:

From the South:
Take I-35N, Exit 235A toward 15th/MLK Jr. Blvd. Continue through one stop light. Hotel is on the right.

From the North:
Take I-35 South. Exit 235A toward 15th Street. 15th Street, take the turn around and look for hotel on your right.



2012 Affiliate Roster

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SOUTH TEXAS CHAPTER of the HEALTH PHYSICS SOCIETY, INC.

The Affiliates of the South Texas Chapter (STC) are listed below. Our Affiliates help support our Chapter functions, and we should support them. They contribute substantially to the STC, and each should be thanked by our considering their products or services first. Also, tell them we sent you.

Affiliates: Please review your listing below and email any corrections to patew@uthscsa.edu

Affiliate	Address	Web/Email	Telephone/Fax
ADCO Services Jim Bell, Sr.	17650 Duvan Drive Tinley Park, IL 60477	www.adcoservices.com jimsradco@aol.com	708-429-1660 708-429-9759 (fax)
Advanced Measurement Technology, Inc. (Ortec) Sherrod Kyle	9601 Peralta Road NE Albuquerque, NM 87109	www.ortec-online.com sherrod.kyle@ametek.com	505-856-7787 505-306-5879 (cell)
AECOM Kevin Martilla	8005 Outer Circle Road Brooks City-Base, TX 78235	www.aecom.com kevin.martilla@aecom.com	210-271-0925 210-271-3061 (fax)
ALMAC Environmental Services Alan McArthur	809 Balmoral Court Friendswood, TX 77546	www.almaces.com almac@almaces.com	281-648-2088
Alpha Neutronics, Inc. Andrew Pitts	11534 Trickey Road Houston, TX 77067	www.alphaneutronics.com admin@alphaneutronics.com	281-872-0055
Ameriphysics, LLC Tom Hansen	11634 Turkey Creek Road Knoxville, TN 37934	www.ameriphysics.com tom@ameriphysics.com	865-228-1997 (Tom) 865-654-9200 (Office) 865-531-0092 (fax)
ARDT Eddie Selig	Post Office Box 26586 Austin, TX 78755-0586	www.ardt.org eselig@ardt.org	512-391-0400 512-391-0602 (fax)
Atomic Energy Industrial Laboratories (AEIL) of the Southwest, Inc. Steven H. Allen	9261 Kirby Drive Houston, TX 77054-2514	www.aeil.com shallen@aeil.com	877-866-AEIL (toll-free) 713-790-9719 713-790-0542 (fax)
Bionomics, Inc. John McCormick	Post Office Box 817 Kingston, TN 37763	www.bionomics-inc.com bionomicsjohn@comcast.net	865-220-8501 865-220-8532 (fax)
Canberra Industries, Inc. John Lejeune	4428 Stone Mountain Drive Fort Worth, TX 76123	www.canberra.com jlejeune@canberra.com	817-423-9633 817-584-0323 (cell)
Carson Nuclear, LLC Dru Carson	808 Crescent Drive Sweetwater, TX 79556	www.carsonnuclear.com dru@carsonnuclear.com	325-235-1625 325-235-1625 (fax)

NEW!

2012 Affiliate Roster

Affiliate	Address	Web/Email	Telephone/Fax
Chase Environmental Group John O'Neil	109 Flint Road Oak Ridge, TN 37830	www.chaseenv.com joneil@chaseenv.com	865-481-8801
EnergySolutions Scott Baskett	423 West 300 South, Suite 200 Salt Lake City, UT 84101	www.energysolutions.com sbaskett@energysolutions.com	801-649-2102 801-550-0109 (cell) 801-413-5690 (fax)
F&J Specialty Products, Inc. Frank Gavila	404 Cypress Road Ocala, FL 34472	www.fjspecialty.com fandj@fjspecialty.com	352-680-1177 352-680-1454 (fax)
GMC Technology George Espinosa 	Post Office Box 28204 Santa Fe, NM 87592		505-920-6338 325-235-4672 (fax)
ISO-TEX Diagnostics, Inc. Tom Maloney	Post Office Box 909 Friendswood, TX 77546	www.isotexdiagnostics.com isotex@aol.com	281-482-1231 281-482-1070 (fax)
Landauer, Inc. Amy Cosler	2 Science Road Glenwood, IL 60425	www.landauerinc.com acosler@landauerinc.com	708-308-7825 817-447-6385 (fax)
Ludlum Measurements, Inc. Mick Truitt	Post Office Box 810 501 Oak Street Sweetwater, TX 79556	www.ludlums.com mtruitt@ludlums.com	325-235-5494 325-235-4672 (fax)
Microtec Services, Inc. Quintin Stokley	110 Charles Street Pasadena, TX 77506	www.microtecservices.com qstokley@sbcglobal.net	713-475-2274 713-475-2362 (fax)
Mirion Technologies (GDS), Inc. Victoria Potuck 	2652 Mcgaw Ave. Irving, CA 92614	www.mirion.com vpotuck@mirion.com	888-437-1714 443-742-4197 (cell) 949-296-1130 (fax)
Owens Scientific, Inc. Betty Hail	23230 Sandsage Lane Katy, TX 77494-4207	www.owensscientific.com sales@OwensScientific.com	281-394-2311 281-394-2522 (fax)
Prudent Environmental Services Robert Binovi, PhD, PE	4242 Medical Drive, Suite 5250 San Antonio, TX 78229	www.prudentweb.com rbinovi@prudentweb.com	210-822-9588 210-579-6577 (fax)
Quantum Technical Services, Inc. Chuck Winfield	Post Office Box 7950 Pasadena, TX 77508	www.quantumtec.net C.winfield@quantumtec.net	877-461-7200 281-461-7209 (fax)

When you need services, call your STC Affiliates first!

2012 Affiliate Roster

Affiliate	Address	Web/Email	Telephone/Fax
Radiation Consultants Bruce Bristow 	Post Office Box 787 Deer Park, TX 77536	www.radcons.com radcons@yahoo.com	281-476-0072 281-476-0658 (fax)
Radiation Technology, Inc. Doris Bryan	Post Office Box 27637 Austin, TX 78755	www.radiationprograms.com doris@radiationprograms.com	512-346-7608 512-795-8718 (fax)
Southwest Research Institute John Hageman Honorary Affiliate	6220 Culebra Road San Antonio, TX 78238-5166	www.swri.org jhageman@swri.org	210-522-2633
Suntrac Services, Inc. Rob O'Donel	1818 East Main Street League City, TX 77573	www.suntrac.com rob@suntrac.com	281-338-2133 281-338-2136 (fax)
Texas Southern University Carlos Hardy	3100 Cleburne Street Houston, TX 77004	physics.tsu.edu/Academics/ BSRadiation.php hardyc@tsu.edu	713-313-1850 713-313-7851 (fax)
Texas State Technical College Linda Morris Honorary Affiliate	3801 Campus Drive Waco, TX 76705	www.tstc.edu Linda.Morris@tstc.edu	254-867-2952
The Delphi Groupe, Inc. Ron Gauny	2211 S. IH 35, Suite 400 Austin, TX 78741	www.delphigroupe.com rdgauny@delphigroupe.com	512-462-1181 512-462-1187 (fax)
Thermo Fisher Scientific (Instrument Sales) Denny Cannon	Post Office Box 621059 Littleton, CO 80128	www.thermo.com denny.cannon@thermofisher.com For service/repair/calibrations: depotservice.rmsi@thermofisher.com	303-948-5001 303-907-0324 (cell)
Thermo Fisher Scientific (Training, Source Disposal, Leak Testing) (Industrial Gauge Installation/Repair) Michael Fontenot	1410 Gillingham Lane Sugar Land, TX 77478	www.thermo.com michael.fontenot@thermofisher.com	713-272-4568 713-272-2273 (fax)
Waste Control Specialists LLC Scott Kirk		www.wcstexas.com skirk@valhi.net	214-681-7178
William B. Johnson & Associates, Inc. Charles (Dick) Landfried	Post Office Box 472 200 A.E.I. Drive Lewisburg, WV 24901	www.johnsonnuclear.com	304-645-6568 304-645-2182 (fax)



Health Physics Society
South Texas Chapter
P.O. Drawer 28510
San Antonio, TX 78228-0510
ATTN: John Hageman
STCEditor@swri.org

Check www.stc-hps.org for your member needs

FUTURE *Meetings & Deadlines*

Date	Location	Topic	Newsletter Deadline
September 14–15, 2012	Austin, TX	Non-ionizing Radiation	NA
January 11–12, 2013	San Antonio, TX	Affiliates Fair	November 8, 2012
January 27–30, 2013	Scottsdale, AZ	National HPS 2013 Midyear Topical Meeting	NA
April 2013	TBD	Student Meeting	NA
July 7–11, 2013	Madison, WI	National HPS 58 th Annual Meeting	NA

Go to www.stc-hps.org for
MEMBER and AFFILIATE APPLICATIONS, to REGISTER
and **PAY** for conferences, and for additional **MEETING INFORMATION**.