



THE BILLET

Health Physics Society ★ South Texas Chapter ★ Radiation Safety Specialists



From the President

After enduring a very difficult week that will undoubtedly be a difficult month in a difficult year, due to the recent terrorist tragedies, our lives as Americans have changed. A series of senseless acts of terror on American soil have taken the lives of our mothers, fathers, children, friends, neighbors, and colleagues. The images

and stories will forever remain imprinted in our minds and hearts. We will never forget, but we must move forward with new resolve in the ideals and values that have made our nation great. Although it is difficult to look beyond this, we must stand together as one nation, as the brightest beacon of democracy and freedom.

On behalf of the officers of the South Texas Chapter, I would like to dedicate this edition of *The Billet* to the victims of the acts of terrorism that rocked our nation on September 11, 2001. Our thoughts and prayers are with the survivors and the family and friends who have lost their loved ones.
God bless America. ★

Susan Jablonski

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ADMISSIONS COMMITTEE REPORT

David Fogle

New STC members are as follows:

Marti Poston-Brown	Guidant
Andy L. Cason	Huntsman Ethyleneamines Ltd.
Lewis L. (Buddy) French	Independent Consultant (Oil and Gas)
Donald Halter	TAMU Student
Veronica L. McAffrey	TAMU Student
John L. Rodriguez	Dosimetry Consultant
Enette Perez	TSTC Student

New members from the RSO school graduates (University of Texas at Houston) are:

Charles H. Beckworth	Equistar Chemicals, L.P.
Michael D. Burtch	Lubbock Urology Clinic
Bobby E. Conley	Aircraft
Susan V. Dixon	Baylor College of Medicine – VA Hospital
Harold T. Gilliam	Sulzer Carbomedics
John A. Glover	O.I. Analytical
Stephen R. Hopkins	RADCO Imaging Technologies, Inc.
Diane Krouk	BioTech
Corey R. Nead	BioTech

The final membership for 2000 was 279. The current membership for 2001 is 277:

202	Paid Regular Members
45	Paid Student Members
28	Paid Affiliate Members
2	Honorary Lifetime Members

Chapter pins are still available - \$5.00 each.

The 2001 Chapter Membership Directory is being handed out at the November 11 meeting, then it will be mailed to those not in attendance or at the TAMU meeting. ★

Need Continuing Education Credits?

Danette Fennesy

Many of us receiving *The Billet* are certified in one way or another and need continuing education units (CEUs). We all know that one of the best ways to get those CEU hours is by attending the South Texas Chapter-Health Physics Society (STC-HPS) meetings, but it does not always work into our schedule. Going to little league games, Aggie football games, bowling leagues, or even the nearby ice house may take priority. So, how can we help each other get those CEUs?

If your facility occasionally or routinely offers a class or seminar that others may attend for Licensed Medical Physicist (LMP), Medical Radiologic Technologist (MRT), Certified Health Physicist (CHP), etc. CEUs, perhaps you could advertise it in *The Billet*? Send in your class/seminar topic and schedule information so that others may attend and thus, may not have to travel too far and can save a few bucks for themselves or their company. After all, why should you give an inspiring talk about radiation to a few technicians, when you could put a whole room to sleep?

To better inform the STC-HPS members of any future CEU courses, e-mail the Title, Subject, Time, Date(s), Cost (if any), Location, Person to Contact, and CEUs Awarded to John Hageman, Editor of *The Billet*, at STCEditor@swri.org. ★

Membership Application Form

To save space, the STC-HPS membership application form is not included in this issue of *The Billet*. If you are interested in applying for or renewing your membership, please refer to the application from the STC-HPS website.

The URL is <http://www.stc-hps.org/form2k.pdf>. ★

PROPOSED CHANGE TO STC-HPS BYLAWS

Peter and Karen Myers

Background: The South Texas Chapter of Health Physics Society, Inc. (STC) Bylaws, Article III (Membership), Section 1, reads, "This corporation shall be a membership corporation and a membership certificate or card shall be issued to every member in good standing as evidence of his status as a member."

Bylaw Proposal: The Executive Council of the STC has proposed a revision to more closely reflect the practices of the STC and similar professional societies, who do not send annual membership cards or certificates. This will also more closely reflect the Bylaws of the National Health

Physics Society. The following, therefore, is submitted for consideration by the general membership of the STC:

Section 1. The corporation shall be a membership corporation. Evidence of good-standing membership status shall be determined by membership records maintained by the Committee on Admissions.

Rationale: Current STC Bylaws specify that every member in good standing shall receive a membership certificate or card. Certificate or card generation has been intermittent at best; and this practice was essentially discontinued for the following reasons:

(1) The procedure became cumbersome with the swelling membership ranks (STC remains one of the largest Chapters of the HPS).

(2) Confusion associated with coordination of certificate issuance duties arose between the STC Secretary and Committee on Admissions.

(3) Potential conflict arose with services provided to members not in good standing (i.e., delivery of *The Billet* and membership renewal letters.)

(4) This system requirement created an expense the STC could hardly justify.

For these reasons, in practice, membership certificates or cards have not been sent to

members in good standing for a great while. The proposed Bylaws change will also continue the initiative of President Susan Jablonski to more closely operate the STC in accordance with Chapter Bylaws and the IRS Code 501-C-3 corporate requirements for tax exempt status.

Bylaw Voting: Members in good standing present at the next STC-HPS Business Meeting will vote on the proposed change to the STC-HPS Bylaws, in accordance with Article X (Amendments), STC-HPS Bylaws (Revised February 12, 2000).

(The Bylaws are on page 75 of the May 2001 Membership Directory.—JPH) ★

Better Late Than Never, Maybe NOT

David Fogle, Chair, STC Committee on Admissions

To ensure the preservation of the IRS Code 501-C-3 tax-exempt status that the South Texas Chapter (STC) is now afforded, STC's prettiest (she's my fiancé, OK!) President Susan Jablonski informed the Executive Council, at the summer meeting, that the Chapter needs to follow their Bylaws or amend those Bylaws to accurately reflect current policies. In accordance with this "Presidential mandate," the STC will now strictly enforce the provisions of Article III, Section 4, Bylaws, revised February 12, 2000.

Article III, Section 4 states:

Dues of members become payable on the first day of January each year. Any member of the Chapter whose dues are unpaid on March 1 of the calendar year in which dues are specified is not in good standing and shall have no vote. Membership in the Chapter ceases when the dues of the members are not paid within one year after they are due. The person's name shall be removed from the active membership list, the person shall be so informed, and the person shall receive no further communication from the Chapter.

So, what does this mean to you? Nothing...so long as you **pay your annual dues on time**. However, if you are like so

many who inexplicably fail to remit dues, two time frames become crucially important to maintaining STC membership. First, make certain that you **pay your dues every year prior to March 1** so that your vote will count when STC elections are certified. This privilege, reserved for members in good standing, is very important, especially considering the outcome of a recent election in which the victor won their post by the thinnest of margins – one vote! Second, if March 1 comes and goes, and you suddenly remember that you forgot to **pay your Chapter dues**, you **MUST** pay your past dues prior to January 1 of the following year. Failure to do so will result in removal of your name from membership and the receipt of a nasty-gram from your new Admissions Committee Chairperson. More importantly, the privileges of Chapter membership (receipt of the nationally recognized publication, *The Billet*, notifications of upcoming Chapter meetings and activities, reduced prices for Chapter meetings, etc.) will cease.

Dues renewal notification letters should be sent by mid-November 2001 so that members will have an opportunity to (here it comes) **pay their annual dues by January 1, 2002**. ★

Minutes of the Executive Council Meeting of the South Texas Chapter of Health Physics Society, Inc. Brooks Air Force Base • San Antonio, Texas August 10, 2001

Persons in Attendance — Executive Council (EC) members in attendance: Susan Jablonski, President; Bob Emery, President-Elect; Pete Myers, Secretary; Jim Lewis, Executive Council Member, Ken Krieger, Treasurer-Elect; Jim Sharp, Executive Council Member; Chris Maxwell, Executive Council Member. EC members not in attendance: Ian Hamilton, Past-President; Mike Charlton, Treasurer.

Committee chairpersons, chapter members, and guests in attendance: David Fogle, Chairperson, Admissions Committee; Janet McCrary, Chairperson, Nominating Committee; Linda Morris, Chairperson, Student Assistance Committee; Karen Myers, Chairperson, Public Relations Committee; John Salsman, Chairperson, Publications Committee; Bob Wilson, Chairperson, Legislative Committee; John Hageman, Editor of *The Billet*; Stacy Krieger; Sharon Sharp.

Call to Order — Susan Jablonski. A quorum was established, and the meeting of the Executive Council (EC) of the South Texas Chapter of Health Physics, Inc. (STC) was called to order at 10:18 a.m. by President Jablonski.

Approval of the Agenda — Susan Jablonski. A motion was made by Bob Emery to adjourn the meeting at 1:00 p.m.; the motion was seconded by Chris Maxwell. There being no discussion, Susan Jablonski called for a vote on the motion, and the motion was passed unanimously.

Approval of the Minutes — Susan Jablonski. Susan asked the EC if there were any changes to be made to the minutes of the meeting held May 4, 2001. No changes to the minutes were recommended. A motion to accept the minutes as written was made by Bob Emery; the motion was seconded by Jim Lewis. There being no discussion, Susan Jablonski called for a vote on the motion, and the motion was passed unanimously.

President's Report — Susan Jablonski.

Radiation Safety without Borders — Susan Jablonski is on the steering committee; she received an e-mail from HPS President George Anastas yesterday (August 9, 2001) stating that six chapters have written official letters to HPS indicating they are interested in the Radiation Safety without Borders Program (RSBP) and want to know more. Susan provided the Secretary with a copy of the letter she wrote to HPS in which she indicated STC's interest. Susan's letter included an additional interest in having Mexico included on the IAEA list of RSBP countries; it, however, was not done. HPS President Anastas is offering STC two choices: Costa Rica and Honduras. The main concern demonstrated by STC EC members during recent e-mail discussions on STC's participation in RSBP is that we don't really know the level of commitment that will be required. Because the program is still very much in its infancy, there is not a whole lot of information on the program. Once STC identifies the country it wishes to support, IAEA will send STC a packet of information on the country we choose.

President-Elect Bob Emery commented that the University of Texas Health Science Center's School of Public Health is funded through NIOSH to do for the health, safety, and occupational medicine for the U.S. but also is funded by the Pan American Health Organization (PAHO) which has the initiative for South and Central America. Within the PAHO initiative, agreements are made on what the U.S. needs to do and what the supported countries need to do. The PAHO program has shown Costa Rica as having been one of the better partners. As an example, UTHSC PAHO participants have an ongoing research project on worker safety in the health care industry in which they obtained a 90-percent response rate from employees in Costa Rica. Costa Rica is primed for participation in RSBP; Costa Rica has an infrastructure in place to support the program; we have connections with regard to health and safety; and it seems like the environment is conducive to be responsive to outside involvement. President-Elect Emery believes that we can expect quick success with our efforts if we choose Costa Rica because of the infrastructure and connections already in place in Costa Rica.

If STC members travel to Costa Rica, they will be deemed temporary IAEA employees, receiving commensurate diplomatic protection and IAEA insurance.

Susan will write HPS President Anastas indicating STC's selection to support Costa Rica within RSBP, and in the Fall, we'll plan to meet with key staff of the UTHSC Center that is currently involved in conducting studies in Costa Rica.

Science Teacher Workshops and Public Education Initiative

STC conducted a Science Teacher Workshop (STW) Workshop at the HPS Annual Meeting in Cleveland. Approximately 30 persons attended. Feedback from a number of persons at the meeting indicated that they have taken our PowerPoint classes, which were provided at the meeting in Denver, and conducted their own STWs using the STC material.

David Fogle has been appointed to the HPS STW Committee. As reported in *The Billet*, Ian Hamilton, Linda Morris, and Ken Krieger traveled to Canada to conduct an STW at the Canadian Radiation Protection Association meeting in Halifax, Nova Scotia, Canada. STC may be invited back to Canada to conduct another STW.

Treasurer's Report — Stacy Krieger (for Ken Krieger for Mike Charlton). The Treasurer's Report was distributed. The report shows a pretty good balance in the Scholarship Fund and that the money market account is earning 3.69%. It was decided to wait to discuss assignment of the \$20,000-unassigned account until Mike Charlton (Treasurer) and Ken Krieger (Treasurer-Elect) can participate in the discussion.

Nothing yet to report on the STC Financial Plan Ad Hoc Committee.

John Hageman commented that the balance of the scholarship fund has remained fairly constant over the past five years. This evidenced how the donations to the scholarship fund (plus annual interest) are sufficient to offset annual awards of scholarships. Hageman thought that

we had hoped to get the scholarship fund to a point where it was self-sustaining (i.e., that annual awards of scholarships could be funded exclusively by the annual interest generated by the fund). Susan Jablonski noted that we had discussed that, but the fund would basically have to double in size to achieve that goal, in part because we're awarding more grants. Mr. Fogle remembered that three years ago we gave five grants but we have now settled on giving three grants each year. We are pleased with the trend that more people are donating to the scholarship fund and that we can still aspire to the goal of having a self-sustaining fund.

Chris Maxwell made a motion to accept the Treasurer's Report; following a second of the motion, the motion was passed unanimously.

Secretary's Report — Pete Myers. Myers received the formal request from TAMU's ANS Student Branch for \$500 to support their conference. The request had been acted upon at a previous meeting.

Standing Committee Reports

Program Committee — Bob Emery

Themes for future meetings

Objectives Scoping Session. A discussion of where we are heading, what we should be doing, what our goal is (e.g., do we want to increase membership?). We have a clear mission, but we may not have a clear objective by which we might achieve the mission. Assess the needs of the radiation safety professionals who do not attend meetings. Might be a scoping session from which we would identify a Chapter initiative that would develop over time. Might identify need for an annual meeting aimed at users of radiation rather than radiation safety professionals. Lessons Learned from Historical Radiation Incidents in Texas – Another possible theme.

Emery will work with the Program Committee to determine a theme for the next meeting. The next meeting will probably be on November 10, 2001 (1st); or November 17, 2001 (2nd). The location of the meeting will be decided later.

The meeting after the next meeting will be January 25 & 26 for the Vendors meeting at the Adam's Mark Hotel (rate for a single room will be \$109; double \$119). HPS President-Elect John R. Frasier will attend and will meet with students on Friday afternoon.

We need to begin thinking about a location for the May meeting (e.g., College Station, Austin, Waco). John Salsman mentioned that if we held the meeting at Texas A&M after graduation, we might be able to use a private dormitory that has excellent facilities at very low room rates; he will contact the dorm and investigate availability. May 10/11 is graduation at A&M. We might think about May 17/18 so the students might remain in town for the meeting.

Admissions Committee — David Fogle

Fogle received all the previous Admission Committee material from Jim Sharp. So far, we are two people away from equaling last year's end-of-year membership total. The list of new member applicants includes 4 regular members; 3 traditional students; 9 RSO students. The EC voted to approve all 16 applicants.

Chapter pins are still available for purchase. Money from pin purchase goes to fund Science Teacher Workshops.

Chapter Membership Directories are available. Will be handed out to those attending the meeting and mailed to others.

A motion was made, seconded, and passed unanimously to have the Admissions Committee draft an amendment to the Bylaws to eliminate the requirement to issue membership cards to each member in good standing. The draft amendment should appear in the next issue of *The Billet*.

Fogle will develop a checklist or guide for the Admissions Committee.

The EC discussed publishing the names of persons who make monetary donations to Scholarship Funds or Science Teacher Workshop.

The EC also discussed members in good standing versus members not in good standing. The Admissions Committee will send a reminder letter advising members that they have not paid their dues. In cases where members attempt to pay every other year, when the admissions committee receives the every-other-year payment, a letter will be sent to the member indicating that the payment just received is being placed against the outstanding dues payment from the previous year and that the payment for the current year is still due. Fogle was asked to prepare an article for *The Billet*. In practice, if members don't pay their membership dues by March 1, they get a one-year grace period for the mailing of *The Billet*. The date used should be January 1, because that is when membership dues are due. Members who (a) did not pay their membership dues prior to March 1 or (b) have not paid the current year's membership dues at all are considered members not in good standing. Members who have not paid their membership dues at all are members not in good standing until January 1 when they revert to nonmember status. Members not in good standing are members and can register for meetings at the member's rate. At the time of registration, however, they will be encouraged to pay their outstanding membership dues.

Public Relations Committee — Karen Myers

Two articles and photos were submitted to *The HPS Newsletter*. Nine articles were submitted to *The Billet*, including the article highlighting Linda Morris as one of STC's Longest-standing, continuously active members (next is Richard Ratliff).

Seven photos from the HPS Annual Meeting were sent to the web site.

Nominations Committee — Janet McCrary

New Members to National Committees include:

Academic Education:	Ian Hamilton, Willie Regits
Public Education:	Jay Beckel
Science Teacher Workshop:	David Fogle
Strategic Planning:	Ruth McBurney
Symposia:	Mike Charlton

Ruth McBurney was nominated and selected as a candidate for HPS President-Elect, and John Hageman was nominated and selected as a candidate for the HPS Board of Directors. Susan Jablonski will write an article for *The Billet* encouraging the membership to vote in the upcoming election and to consider voting for both Ruth and John.

Appointed Committee Reports

Science Teachers' Workshop Committee — Jim Lewis (for Ian Hamilton)

The Spring ISD mini-STW was a rousing success. Frank Iddings and Jim Lewis presented with assistance from Janet McCrary. The committee is attempting to archive the material that has been used in all previous STC STWs, including a master list of who has taught what, when, and where.

The STW Committee is forming an STW needs assessment committee made up of teachers representing different grade levels to determine what we could do to get more factual material about radiation and health into our STWs. The committee is attempting to access NSF funds to support travel to committee meetings; otherwise, will use TAMU-sponsored conference calls.

The Committee is developing an inventory of items for distribution at STWs.

The STC will not be presenting an STW at CAST in Austin (November 2001) because of a new policy that workshops had to be submitted for review by April 1, 2001. STC will present an STW at the annual conference of the American Association of Physics Teachers (October 5-6, 2001) at Texas Christian University in Fort Worth. The STC has been contacted about presenting an STW in Beaumont.

The committee will submit a budget to the STC EC (may run around \$1,000-\$1,200).

Affiliates Committee — Susan Jablonski (for Rob O'Donel)

President Jablonski distributed a list of 20 paid affiliates; the numbers are going down, not necessarily because of dwindling support, but because of corporate consolidations (had been as high as 28). Recently received another application, and Earth Tech should be submitting an application next year as a new affiliate.

The Vendors meeting is already in the works.

Legislation Committee — Bob Wilson

At the last meeting of the Texas Radiation Advisory Board, Annette Glass, Administrative Clerk for Representative Warren Chisum, Chair of the House Environmental Committee, asked for persons to submit items for study. Bob Wilson hasn't heard that she has received any suggestions, but it's a foregone conclusion that they will not be studying low-level waste.

Wilson discussed a couple of legal issues that had recently arisen. Two suits were filed on EPA Standards. One complained that the EPA's standard of evaluating the impact on the environment for 10,000 years should be expanded to 100,000s of years; the other complained that the 15 millirem per year limit within 11 miles of power plants should be extended to greater distances from the plants and that the 15 mrem per year limit should be reduced.

Wilson reported that TNRCC may need to address NORM rules because of the new EPA regulations on radionuclides in drinking water.

Publications Committee — John Salsman and John Hageman

The Publications Committee will write an article for *The Billet* on what the Publications Committee does.

Hageman reported that all electronic articles to *The Billet* should be emailed to STCEditor@swri.org. He reminded the EC of more formalized instructions on submitting articles to *The Billet*, and solicited another crossword puzzle from Ken Krieger.

Susan Jablonski asked that articles for *The Billet* be sent to Karen Myers for final editing and submission (to eliminate the problem of articles being submitted twice).

Bob Emery requested that the names of the RSO student members who renew their memberships be listed in *The Billet*. David Fogle said that he has that information and that he can provide it to *The Billet*.

Bob Emery also recommended that the Publications Committee request STC membership to notify them when any member publishes anything so information on the publication can be listed in *The Billet*. The listing would not only allow readers of *The Billet* to learn of recent

publications of interest, but would also demonstrate that STC members are remaining on the cutting edge of health physics.

Rob O'Donel, Affiliates Committee, will be requested to pick up Ralph Heyer's initiative to include affiliate advertisements and articles on individual affiliates in *The Billet*.

Student Assistance Committee — Linda Morris

Education Grant Winners for Fall, 2001 Awards (\$750) include: Associates: Enette Perez, TSTC; Bachelors: Gaby Lugo, TAMU; Graduate: Lucile Dauffy, TAMU.

The Student Assistance Committee budget request includes: \$2250 for Education Grants (3 x \$750), \$200 for Student Paper Presentation Awards (2 x \$100), \$230 – \$900 for Regional Science/Engineering Fairs [16 Plaques (\$25 ea), 16 Chart of the Nuclides (\$15-31 ea)].

The EC voted unanimously to support 6 or 7 science fairs during the next year.

Old Business

CDV-700s Storage & Check Sources — Chris Maxwell and David Fogle.

Richard Ratliff, Chief, BRC, said that it is not a problem for STC to distribute CDV-700s and check sources without licenses; in fact a TDH office has been doing this for years (i.e., RADEF). Ratliff will get this in writing. Chain of custody is also not a problem; should not appear on any inventory as it is not a part of any licensed activity.

Information about the sources for users: The HPS Public Education Committee has come to the same conclusion, but they are including information about the source (e.g., do not rip source off side of meter; do not ingest source; this is what the source is; how to use the source). The STC used stickers on the ones we gave out that indicate what it is and a contact number. We should begin doing that again. We're still anticipating receiving between 800–1000 meters from RADEF and splitting the storage between Ludlum and TAMU if necessary.

Pilot Mentoring Program to HPS National — Ken Krieger.

Now may be a good time to present this to HPS as a pilot program. Krieger talked to HPS Past-President Paul Rohwer and HPS President Anastas, and both are very supportive. Jablonski asked Ken Krieger to write up a proposal (i.e., the details of setting up the program to reiterate what was included in the article published in *The Billet*) on what HPS might do to initiate such a program. Susan Jablonski will write a cover letter and send the proposal on to HPS. Should be ready for the next meeting but would be nice if it could be addressed by the HPS Board of Directors to consider at their next meeting in October so HPS to institute the program at the next Annual Meeting. The STC EC voted unanimously to send the proposal to HPS with a recommendation that HPS institute the program.

Texas Environmental Education Partnership Update — David Fogle.

The Texas Environmental Education Partnership Fund Board had not met since Mr. Fogle last briefed the STC EC so there was no update to be provided.

Update on RSO Navigator Issues — Jim Lewis (for Ian Hamilton).

Secure-site web space has been allocated where authors and editors can go to read each other's work and upload their own contributions. Hamilton spoke with Bob Emery regarding what to do about authors. Emery, Mike Charlton, or Hamilton will be contacting those who volunteered at the May meeting to author certain sections of the document.

New Business***Needs Assessment of STC Membership and HPS Working in Texas.***

See the discussion above in Bob Emery's Program Committee report ***HPS Midyear Meeting in San Antonio (January 19–22, 2003)***. An initial discussion was conducted at the STC Breakfast meeting at the recent HPS Annual Meeting in Cleveland. Key discussion centered on the degree to which STC would support the meeting. As follow-up, it was discussed with Symposia Committee and people in the National Office; they provided options for us to consider.

No involvement

Social Programs and General Support (STC '97 Annual Meeting)

Social Programs, General Support, and all aspects of the technical program

Based on the anticipated large amount of work which would be required if we chose the last option and the fairly large number of initiatives to which STC is already committed, the EC voted to notify the HPS Symposia Committee that STC wishes to be responsible for the Social Programs and General Support and the HPS Symposia Committee will be responsible for the Technical Program. The EC voted to recommend to the HPS Symposia Committee that the theme for the HPS Mid-year Meeting to be held in San Antonio, January 19–22, 2003, should be "Radiation Applications in Medicine and Biomedical Research."

John Hageman recounted a discussion he had with Ruth McBurney where she suggested that a good way to draw in as many non-STC members as possible to the Midyear meeting might be to see if the HPS Symposia Committee would allow us to conduct a mini-regulatory conference in conjunction with the Midyear meeting, perhaps as a break-out session. It was recommended that Susan Jablonski include that idea in her letter to the HPS Symposia Committee in which she relates the STC decision on the level of support STC will provide to the 2003 Midyear Meeting.

Information Outreach Initiative (Texas Legislative Members and Staff). It would probably be beneficial to the development of reasonably informed legislation related to radiation issues if we could initiate a program to educate the members of the Texas Legislative Members and their Staffs. Bob Wilson, Legislative Committee; John Salsman, Publications Committee; and Karen Myers, Public Relations Committee, were requested to work together to lead in the development of such a program.

CAST 2001: A Science Odyssey in Austin (November 1–3, 2001) – Questionable whether the STC will be participating this year due to scheduling problems.

Adjournment

President Jablonski adjourned the meeting at 1:00 p.m. ★

Student Assistance Committee Report

Linda Morris

The Education Grant Winners for the Fall 2001 Awards were the following students, who will be awarded \$750 Education Grants:

Associate:	Enette Perez, TSTC
Bachelor:	Gaby Lugo, TAMU
Graduate:	Lucile Dauffy, TAMU

Thanks to the STC members, Cathy Clark, Frank Iddings, and Bill Bryant for serving on the Student Award Evaluation Committee.

From the proposed 2002 budget, the Student Assistance Committee requested:

- | | | |
|-----|--|--------------|
| (1) | Education Grants: Three at \$750 each | \$2250 |
| (2) | Student Paper Presentation
(Richard Neff Memorial) Awards:
One undergraduate, one graduate at \$100 each | \$200 |
| (3) | Regional Science/Engineering Fair Awards: | \$230-\$918* |

*We participated in five regional fairs in 2001 (San Antonio, Houston, Brazos Valley, Austin, and Central Texas). The chapter had intended to make awards consisting of a plaque (\$23 each) and a Chart of the Nuclides (\$28 each) to each of the five fair winners for a total expense of approximately \$250. The reality was that several of our judges wanted to make multiple awards at each fair (team projects, junior/senior awards, etc.). It is proposed that the STC present two awards per fair, and only the plaques be given. Accordingly, 10 plaques per year could be awarded for a cost of \$230. If we have sufficient funds, we could also present the Charts and/or expand our coverage to include other regions in the STC (East Texas, South Texas, Corpus Christi). ★

Why are Nuclear Power Plants Turning Green? OR Why are Greens Turning to Nuclear Power Plants?

An Editorial by John P. Hageman

In a recent article, Sept. 6, 2001, by *CNS News*, Senior Staff Writer Marc Morano (CnsNews.com), "Greens Going Nuclear," Marc writes about how many renown environmentalists are avidly encouraging the construction of more nuclear-powered generating stations to save the world's environment and its inhabitants. The premise that these pro-nuke tree-huggers (Does that sound like an oxymoron?) purport that nuclear power plants don't emit green house gas (carbon-dioxide or CO₂) and thus will not cause "human-produced global warming" (HPGW).

Well, we could go many rounds of arguing about whether people can change the weather, but I'll limit the discussion to my opinion (after all this is an editorial). Consider that man (mentally substitute "humanity" for "man" if you insist that you only want to see Politically Correct jargon) has not produced any significant amounts of CO₂ until after the industrial revolution, which started long after James Watt invented the steam engine in 1763. (Unless you think that manmade forest fires count.) So, the limited time for man's potential influence on the global weather can only have been in the last 200 years with a continually steady increase during that time. But look at what evidence there is that the global climate has changed dramatically over the eons, when only natural factors, not man, could have impacted the global temperature.

Take, for example, the many advances and recessions of the Earth's many ice ages and glaciers. Also, think about all the oil found under the frozen Alaskan tundra. A huge forest, jam-packed full of green growing plants (the raw material necessary to make oil) had to be there long before the current Alaskan climate, which has been documented as cold for many centuries. Gee, maybe there was non-human produced global warming (NHPGW) before men invented the automobile and the coal/oil fired power system. Or maybe aliens came down and drove their hydro-carbon powered Space/Unearthly Vehicles (SUVs) around the planet to bring out the flora of the arctic.

Morano's article pits key personalities of the environmental elite against each other in their self-proclaimed best solutions for saving the planet from man. In the opinion of British environmentalist James Lovelock, a great solution to save the planet and its flora and fauna is the intentional contamination of undisturbed habitats with what appears to be human-lethal amounts of radioactive waste. I'm not sure if he means to scatter intact spent fuel rods in a forest or to have an aerial spraying of radioactive sludge on uninhabited areas to assure its perpetual protection. His thought seems to be that people are more sensitive to radiation than plants and animals, and the low-level chronic radiation would have no effect on the bunnies, but

would keep out [or kill] any human intruders. Lovelock, [according to Morano] "claims the land surrounding Russia's Chernobyl nuclear plant, which experienced the world's worst nuclear reactor accident in 1986, 'is now rich in wildlife, much more so than neighboring populated areas.' [Lovelock wonders] 'if we should use it [nuclear waste] as an incorruptible guardian of the beautiful places on Earth. Who would dare cut down a forest in which was the storage place of nuclear ash?'"

The spokesman for Greenpeace International, Damon Moglen, said in response to Lovelock, in Morano's article, " 'Lovelock's idea of forest conservation via nuclear waste (is) 'ludicrous.' Anybody who thinks Chernobyl has somehow positively effected the environment, needs a head cleaning'." Morano also quotes Debbie Boger, an "energy expert" with the Sierra Club. " 'People who call themselves environmentalists—it confuses me as to why they would say nuclear is the answer.' While she acknowledges that it's 'absolutely true' the nuclear industry has improved its safety record, Boger worries about the 'potential for catastrophic accidents,' and asks, 'what kind of risks are you willing to take for that?'"

Since die-hard environmentalists insist that HPGW is an absolute scientific fact and that we must all do something

to save the planet from ourselves, the only real alternative to nuclear power is for everyone to conserve. If you want to claim that solar, wind, tidal, and other alternate energy sources can fill the gap quickly enough, produce the data and facts that prove it.

Energy conservation may be a feel-good and sound-good solution, but in reality, it means forcing all of us back to the dark ages. Just think of the energy-dependent medical advances, refrigeration, transportation advances, etc. These items do not just make life more comfortable, but have truly advanced civilization for a better quality of life, and longer life as well, for all. Don't the Greenies realize that if they turn down energy consumption world wide, that the additional starvation and disease they would force on the world's population is guaranteed, especially on the poorer nations? Oh well, I guess they think that's a small price to pay to have beautiful bunny habitats.

The bottom line is, if the environmentalists truly believe their sacred computer modeling, and the extremely short-term temperature-measurement trends actually predict that manmade CO₂ is causing the earth to become warmer AND that a warmer climate is truly deadly, they have only one choice. That choice is to dramatically reverse the current rate of CO₂ production. The HPGW trend, if true, can only be stopped and reversed by

Continued on p. 15.

South Texas Chapter LONGEST-STANDING, CONTINUOUSLY ACTIVE STC MEMBERS

Karen Myers

The South Texas Chapter (STC) has selected Richard Allen Ratliff, a chapter member since 1972, as its next longest-standing, continuously active member.

Richard was born in Leadville, Colorado, on October 9, 1947 (Happy Birthday, Richard). Leadville, because of the 10,000-foot altitude and granite formations, has one of the higher background radiation levels in the U.S. When he was in the 5th grade, his family moved to Grants, New Mexico (the Uranium Capitol of the U.S.). Richard's father Charles was an underground-uranium miner, and Richard worked four summers in the mines to help with his college expenses. Richard has four brothers, and they all enjoyed fishing and hunting with their dad. When Richard was 19, he and his dad built and flew a Waco UPF-7 biplane from a hanger of parts.

In 1970, Richard graduated from Western New Mexico University in Silver City, New Mexico, with a Bachelor of Science in Engineering Technology (majored in Electronics with a minor in Mathematics and Economics). He then received a Master of Environmental Science from the University of Oklahoma (OU) in 1971, majoring in Radiological Health Engineering. He completed an additional year of graduate school at OU studying air pollution engineering in 1972.

I asked, "How did you become interested in and who were the persons most impor-



Left to right John White, Bob Wilson, and Debra and Richard Ratliff enjoy a break together at the August 11, 2001, meeting at Brooks Air Force Base.

tant to you in developing/ furthering your career in health physics/radiation safety?"

Richard's reply was, "I became interested when I had my first summer job in a uranium mine and one job was 'probing' the ore to determine if it contained enough uranium to send to the mill. While in graduate school, I became interested in the safety concerns and potential beneficial uses of radiation. The first and foremost person who was important in the developing/furthering of my career was Dr. Larry Canter at OU. He showed me the great opportunities in the health physics field, where I could use my electronics training and health physics training to have a meaningful and productive career. Then Ed Bailey was a great mentor at the Texas Department of Health (TDH). He helped me feel more comfortable with the hands-on projects and the value of a good regulatory program."

Richard began working for TDH in May of 1972 in the Compliance and Inspection

Program as an Environmental Health Specialist. While in that position, he performed radioactive material license inspections. In September 1973, he was promoted to Environmental Health Specialist III and was given the added responsibility of performing incident investigations and reviewing other compliance inspectors' reports prior to issuing citation letters resulting from their inspections. In February of 1974, he was assigned the additional responsibility of Radiation Safety Officer for the TDH. In 1981, he became Director of Compliance and Inspection when the Bureau of Radiation Control (BRC) was established. Since April 1994, he has been Chief of the TDH-BRC, where he works under general administrative direction of the Associate Commissioner for Environmental and Consumer Health.

When asked to share a few anecdotes regarding his early STC years, Richard replied, "I remember some of the early meetings in Austin where the

meeting included recreation at Mr. Martin Wukasch's lake house on Lake Travis where some members ventured over to 'Hippy Hollow' for a little nonradiation exposure."

Richard said that he has always believed that membership in both the HPS & STC have aided in his technical and professional development as a health physicist. Richard volunteered for the STC Speakers Bureau in the 1980s and made presentations in Austin and Lubbock to service groups and Texas Tech Medical School students. He also was the Legislative Committee chairperson for the Chapter in 1999.

Richard married Debra Ann Gabitzch in 1976, and they just celebrated their 25th Wedding Anniversary. Debra is also an STC member and vividly remembers their tour of the South Texas Project during construction, where they climbed rung ladders to get to the containment building. This was before Occupational Safety and Health Administration was a reality; and the ladies were not told not to wear high-heeled shoes or dresses! They both enjoy reading and cooking and having fun holiday gatherings with family. They are both members of Saint Theresa Catholic Church in Austin, and they have two fantastic "God Children." They also have sponsored children in Colombia and Bolivia, South America. ★

Bob Cherry Retires from The U.S. Army and Returns to Texas

Pete Myers

Bob Cherry, Colonel, U.S. Army, long-standing and loyal member of the South Texas Chapter (STC) (since 1981), is retiring from The United States Army on October 31, 2001, after having served in the Army for 32 years in various capacities. His last assignment in the Army was perhaps his most important as he established and served in the position for Radiation Safety Officer of the entire U.S. Army. Holding the position for seven years, he worked in the Pentagon and reported to the Director of the Army Staff. He wrote the Army's Radiation Safety Regulations that unified the many radiation safety programs throughout the Army and provided a single responsible entity for Army radiation safety and single point of entry into the Army for all agencies exterior to the Army (e.g., NRC, EPA).

A couple of Bob's other assignments in the Army are particularly noteworthy. His first assignment in the Army, after earning his Bachelor of Science degree in Physics from the University of Michigan, was as an Artillery Officer serving for a year, directly in harm's way, as a forward observer (out in front of friendly forces identifying targets and adjusting fire) in Vietnam. Following his tour in Vietnam, Bob returned to the University of Michigan to earn his doctorate in Physics. Rejoining the Army, Bob volunteered for another remote assignment, this



time as an Assistant Radiation Safety Officer with the Enewetak Atoll Clean-up Project. Enewetak Atoll, like Bikini Atoll, was used as an atmospheric nuclear weapons test site. From 1977–1979, a multi-agency task force cleaned up the atoll, so the islanders could return home.

Although frequently assigned to Army units that could not support Bob's participation in and attendance at Health Physics Society (HPS) meetings, Bob was focused on maintaining his professional competence and credentials. He maintained his STC membership (attending meetings when possible, even driving in from Washington DC), became certified as a health physicist, served on many HPS committees, served on the HPS Board of Directors from 1995–1998, and is currently serving as the HPS Strategic Planning Committee Chairperson. Recently

assigned in the Washington DC area, he is a Past-President of the Baltimore–Washington Chapter of the HPS.

On terminal leave from the Army until his formal retirement date, Bob began working with Earth Tech in their San Antonio office on August 20, 2001. Please join us in congratulating Bob on his retirement from the Army after 32 years of honorable service to his country and welcoming him and his wife, Yolanda, as they return to Texas and their active participation in the STC. ★

Is There Life After a Student Presentation?

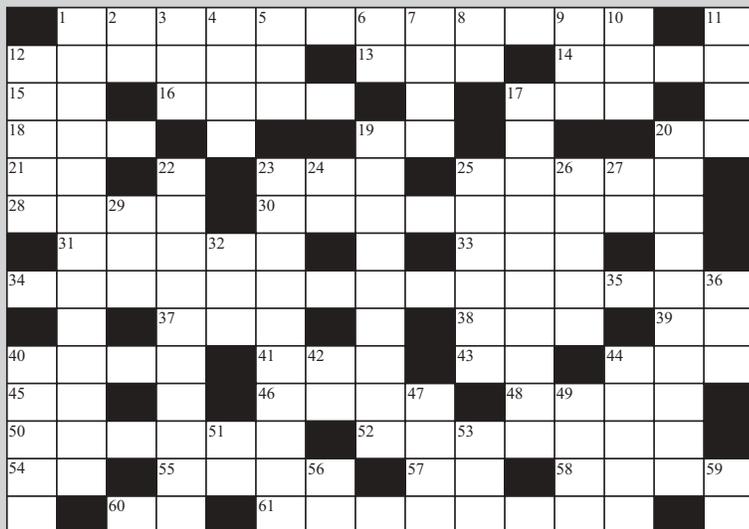
The STC-HPS is fortunate to be the host chapter of several strong academic health physics programs. Students from these programs serve as the lifeblood of the STC-HPS, and their importance is recognized each year during the annual May meeting, which is dedicated to student presentations. To demonstrate to this year's crop of students that there is indeed life after graduation, President-elect Bob Emery would like to make a short "where are they now" presentation about previous student participants. If you are, or know of a

previous STC-HPS student presenter, please let President-elect Bob Emery know how and what you're doing now. This information will serve to enlighten the students who will be presenting at this year's meeting and make them aware that there is truly "life after a student presentation." Who knows, one might even go on to be president!

Bob Emery can be reached via phone at (713) 500-8100 or e-mail at Robert.J.Emery@uth.tmc.edu. ★

"PLACES"

Kenneth Krieger



ACROSS

- Town near a proposed Texas LLRW site
- Texas lab that stores "PITS"
- Slippery fish
- Wise birds
- Electron Volts
- Pour molten steel into a mold
- Was elected
- Badger
- Old 33-1/3 record
- Bone mineral (sym.)
- Elvis St.
- Past
- Broom rider
- Start over
- Listlessness or uneasiness
- Stadium
- Relative (abbr.)
- Nuclear Power Plant (NPP) that holds the record for longest uninterrupted power-run
- Lowest prime number
- National Academy of Engineering
- Gas and Halide (2 syms.)
- See or vista
- Jewel
- One-billion kg · m/s² (abbr.)
- Tiny business group (abbr.)
- Roman 4
- Smell
- French invasion
- Cleaner
- Sailor's spirit? 2 words
- Emergency room, for short
- Finales
- Ideal gas (sym.)
- South Texas College (abbr.)
- Public relations, for short
- Lab/city in 21 across

DOWN

- National lab, known for producing ³H
- Amidst
- On and on (abbr.)
- Interpret words on a page
- Prescriptions (abbr.)
- Exist
- Jump
- Foil metal (sym.)
- Dove chirp
- Grass bristle
- Gov. Safety Org.
- Five (prefix)
- Missile testing range
- National Lab in New Mexico
- Names for world's worst NPP accident
- Location of an instrument manufacturer (unsolicited plug, it just fit)
- Trinity test-site desert
- Peach St.
- Electrical routing
- Sheer silk net
- Soft metal (sym.)
- It is human
- Just made
- Good grade
- 2 x radius (abbr.)
- Climbing plants
- Asner's name
- Fry in butter
- Back side
- MacArthur's nickname?
- Two directions (abbr.)
- Onassis' nickname
- Riverwalk city (abbr.)
- Ring metal (sym.)

Answers at STC-HPS.org

Radiation Safety Outside Texas Borders

Susan Jablonski, STC President

The South Texas Chapter (STC) is one of six Chapters in the United States that have expressed interest in participating in the National Health Physics Society (HPS) program for "Radiation Safety Without Borders." President-Elect George Anastas first introduced this program concept to the STC during his visit to our Affiliates' Meeting this past January. The potential program was discussed in the *HPS Newsletter* in April 2001 (page 22) and again in May 2001 (page 16). The essence of this program would be a partnering relationship between an HPS Chapter and a developing country to foster radiation safety infrastructure. The funding would come from HPS directly to Chapters with the International Atomic Energy Agency (IAEA) providing aid with diplomacy and protection.

President Anastas asked for formal Chapter notification of interest in this initiative at the Chapter Council Meeting held in Cleveland in June 2001. When the listing of potential countries was distributed to STC Executive Council members later this summer, a decision was made to put STC's name in the hat. We believe that this initiative provides an avenue for global radiation education and safety with great potential.

Although Mexico was not listed on the initial country list, we explored the possibility of including it in this effort without success. Not thwarted, we followed our second strong option of the country of Costa Rica. The STC felt it was especially poised to expand our outreach to Costa Rica, due to a cooperative relationship with that country and the University of Texas System.

The STC should be receiving a briefing packet from the IAEA on Costa Rica soon. Nonetheless, being a group that likes to take the bull by the horns, we are proceeding with fostering a relationship with Costa Rica now. The STC Executive Council plans to meet with representatives from the University of Texas School of Public Health about existing Costa Rica activities and has even planned a luncheon presentation for the upcoming STC November meeting on this topic. ★

The Other Type of Radiation . . .

Submitted by President-Elect Bob Emery et al.

The venue of the August 10–11, 2001, Summer Meeting of the South Texas Chapter (STC) was none other than sunny San Antonio and Brooks Air Force Base (BAFB). This meeting gave an added bonus to STC members with preconference tours of Brooks Air Force Base on Friday, before the Meeting's Technical Session on Saturday. The site tours consisted of the Radiofrequency Radiation Branch, the Optical Radiation Branch, and the Armstrong Laboratory. Members and their families were given the opportunity to see first hand, some of the non-ionizing research projects currently under way. Following the BAFB tours, the STC hosted a reception for its members at the Ramada Emily Morgan Hotel in downtown San Antonio. The Friday evening reception catering consisted of hors d'oeuvres, mini burritos, taquitos, and stuffed jalapeño peppers, chicken tenders, and spicy

chicken wings. A cash bar was available for beverages.

The Summer Meeting convened with a Back to Basics Continuing Education Session on the science and safety of the non-ionizing EM (Electro-Magnetic) spectrum, hosted by Doug Johnson. Mr. Johnson provided a refresher on the fundamentals of non-ionizing radiation. The morning session of the summer meeting began with a brief welcome and agenda overview by STC President Susan Jablonski. With breakfast and coffee in hand, the audience welcomed the first speaker of the technical session, Mr. Richard Ratliff, Director of the Bureau of Radiation Control. Mr. Ratliff gave a glowing history of non-ionizing radiation, from regulating laser light shows at concerts to the development of a chronicle of radiation history by the Bureau for future generations. Following a brief morning break and mingling moment, Ms. Latisha Meritt, Laser Program

Manager with the Bureau of Radiation Control, presented an overview of Texas non-ionizing regulations and guidelines with a question and answer session in closing. Ms. Meritt reviewed the registration and application requirements associated with lasers, the applicable regulations in the Texas Administrative Code 289, and provided an update on the 2001 Texas Legislative session, specifically House Bill 1099. The Saturday morning session was very well received, and the speakers were tremendous.

Lunch featured the height of Texas cuisine, barbecue from Rudy's. The food was wonderful with barbecue brisket, sausage, country-style potato salad, ranch-style baked beans, bread, and iced tea, with cheesecake for dessert. With hunger satisfied, the audience turned their attention to Dr. James Rock, a professor in the Nuclear Engineering Department at Texas A&M and former president of the American Industrial Hygiene Association. Dr. Rock presented an illuminating lecture on "The Lightning Protection for Industrial Facilities as a Task

for Applied Plasma Physics." Dr. Rock's insight and experience with the topic provided a great learning (enlightening) experience for all.

Captain James Ross of Brooks Air Force Base followed the luncheon speaker with the presentation on the bioeffects of radiofrequency. Captain Ross gave an overview of some of the research materials available on this topic and ended the presentation with a question and answer session for the audience. Following Captain Ross' presentation, Doug Johnson of Texas A&M and John White of UT Austin, presented key aspects of laser safety that are important to research laboratory settings. Their team presentation



Steve Vittatoe inspects an RFR Survey Meter.



Enjoying one of the breaks and the great food are, left to right, Mary Van Baalen, Amy Orders, and Ruth McBurney.



Chapter members enter the barbeque buffet line for the great taste of Rudy's.

of Radiation

offered insight into a variety of concerns, from radiation itself to fire and chemical issues associated with laser use, that may be faced by academic and research settings. A mid-afternoon break with cookies and canned sodas followed this presentation.

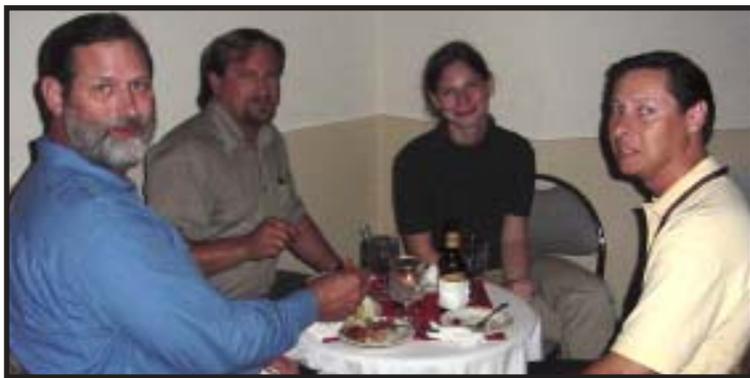
The final presentation of the afternoon was given by Ben Rockwell, Ph.D., of Brooks Air Force Base. Dr. Rockwell is a Senior Research Biophysicist in the Optical Radiation Branch, Directed Energy Bioeffects Division, Human

Effectiveness Directorate, Air Force Research Laboratory. Dr. Rockwell discussed the retinal bioeffects of ultrashort laser exposure. He has collaborated with many internationally renowned scientists in these research endeavors. His efforts culminated in a recent recommendation to the national and international laser safety communities of the first safety standard for sub-nanosecond pulse lasers. Dr. Rockwell is a well-known professional in his field for his research with laser radiation and associated biological effects of the eye.

The concluding session of the summer meeting was the business meeting of the STC, called to order by STC

President Susan Jablonski. Ms. Jablonski apprised the members on the current state of the chapter and recent activities as reported by the STC Executive council meeting held the previous day at Brooks Air Force Base.

Our thanks go to Captain Bruce Muren of Brooks Air Force Base for his continual support and assistance with this meeting. Also, the STC wishes to extend special thanks to the affiliates who generously contributed to help defray the cost of the breaks. These STC affiliates were: **Adit/Eljen Technology; Ludlum Measurements, Inc.; Suntrac Services, Inc.; and William B. Johnson.** ★



Left to right John Hageman, Stacy and Ken Krieger, and John Salsman at the evening reception.



Photo Collage continued on p. 14.

Saturday's General Session.



Doug Johnson provides an introduction.



USAF Captain Ross explains how the Mouse Maze works.

Radiation *Continued from p. 13.*

The Other Type of Radiation . . .



The laser protective canopy used on Air Force jets.



Chapter members listen to the USAF briefing on RFR survey meters.



Chapter members enjoy the evening reception held at the Ramada Emily Morgan Hotel on August 10, 2001. Great appetizers!



Left to right, Geneva Gross, Jim Lewis, and Frank Iddings.



USAF Captain Ross briefs STC members prior to the tour of the labs.



Chapter member Mary Van Baalen with her three daughters touring the Radar Lab at Brooks AFB.



Taking a break are, left to right, Bud Norton, Chris Meyer, Jose Lopez, and John Salsman.

Chisum: Hope for LLRW

Duggan Flanakin, EI NEWS

House Environmental Regulations Committee Chairman, Texas Representative Warren Chisum has posited (suggested) what he calls a “possible remedy” for low-level radioactive waste, which is a growing problem in Texas and around the nation. Chisum says that there has been an increasing rate of lost and stolen sources of LLRW, and today, there is no sure place to dispose of these wastes when they are recovered. The problem has been exacerbated by the “ratcheting down” of the Barnwell, South Carolina, repository and made more visible by the recent floods in Houston that took a toll on hospitals and research facilities that could have resulted, but,

thankfully, did not, in spillage of LLRW into the environment.

Chisum’s communication, dated August 28, notes that since 1981, attempts to site, develop, and operate a low-level radioactive waste disposal facility have been unsuccessful—with the most recent failure being the rejection by TNRCC of a permit for the now-defunct Texas Low-Level Radioactive Waste Disposal Authority for a facility in Hudspeth County (near Sierra Blanca). Meanwhile, LLRW generators in Texas, mainly nuclear power plants but also hospitals and research facilities, have paid more than \$50 million in planning and implementation fees without beneficial return.

Chisum urged the construction of an Assured Isolation Facility in West

Texas, probably in Andrews County, that could be paid for by generators in lieu of continued collection of planning and implementation fees. The facility, which would not (in his view) need legislative approval, could be designed and built under the guidelines and supervision of the U.S. Nuclear Regulatory Commission, which he says has already indicated a willingness to work with any state interested in assured isolation. Low-level radioactive waste would be stored in condominium-type vaults with individual generators (or possibly groups of generators) paying for the space they need.

While even Chisum admits this may not be the ideal solution for everyone, it is, he

says, a responsible step to take while the state is still embroiled in the search for a more permanent solution to the LLRW disposal problem. Chisum says an assured isolation facility would enable generators to move their wastes to a central management and storage facility that would provide greater protection for the public.

Chisum sees this proposal not as a mandate or direction for agency action but as “an idea around which conversations can begin.” The next step is to find out who is willing to talk more.

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Turning Green *Continued from p. 8.*

extreme and drastic cessation of fossil fuel use. If the fossil fuel use is not replaced with an abundant-alternate energy source, (i.e., nuclear power) reduced energy production and use can and will result in a global death rate that rivals anything seen before.

In conclusion, as the greens fractionate and argue among themselves, I hope the engineering and scientific community continues to press forward with the real solutions that truly continue to make this world a much better place to live. ★

The South Texas Chapter of the Health Physics Society announced the recipients of its 2001 Education Grants during the Chapter business meeting at Brooks Air Force Base. Chapter members Cathy Clark, Frank Iddings, and Bill Bryant had a difficult time

judging which of the applicants should receive the grants since all of the applicants were so deserving.

The winner of the Associate Degree grant is Enette Perez of Waco. Enette is an Environmental Health & Safety major at Texas State Technical College. Receiving

the Bachelor Degree grant is Gaby Lugo, and Lucile Dauffy will receive the Graduate Degree grant. Gaby and Lucile are students at Texas A & M University. All three students will receive checks for \$750 and a certificate from the South Texas Chapter. ★

STC Awards Education Grants

Linda Morris

Membership Application Form

To save space, the STC-HPS membership application form is not included in this issue of *The Billet*. If you are interested in applying for or renewing your membership, please refer to the application from the STC-HPS website. The URL is <http://www.stc-hps.org/form2k.pdf>.

Jack S. Krohmer, CHP, Ph.D.

Karen Myers

Jack S. Krohmer, CHP, Ph.D., a decorated World War II veteran, a Plenary Member of the Health Physics Society since 1959, a continuously active member of the South Texas Chapter since 1984, a 2001-awardee as a Fellow of the Society, and a man with few peers [see *The Billet*, Vol. 22, No. 2], departed from our midst on July 7, 2001, after a valiant fight against cancer.

Dr. Krohmer was born on November 7, 1921, to Jacob and Violet Krohmer in Cleveland, Ohio. He spent his youth in Cleveland and earned his bachelors and masters degrees from Western Reserve University in Cleveland. After earning his bachelor's degree in 1943, he immediately joined the Army, where he was trained initially as an artillery forward observer and subsequently as a chemical warfare officer. Following the war, he returned to Western Reserve and earned his master's degree in physics in 1947. For the next 10 years, he worked as a physicist in the radiology department at Western Reserve, leaving in 1957 to join a former resident, Fred Bonte, at the new University of Texas Southwestern Medical School (Dallas, Texas). It was during his time in Dallas that he earned his doctorate in Biophysics and Medical Science from the University of Texas in Austin. After six years in Dallas, Dr. Krohmer joined the Roswell Park Memorial Institute (Buffalo, New York) as a research professor of biophysics. In 1966, he joined the staff of the Geisinger Medical

Center (Danville, Pennsylvania) with an academic appointment in physics at Bucknell University (Lewisburg, Pennsylvania), and in 1972 he joined Radiology Associates of Erie. He served as president of the Erie Clinic from 1973 to 1976. In 1980, he was named professor of radiology, radiation oncology, and radiological physics at Wayne State University (Detroit, Michigan), a position he held until his retirement in 1985.

Even after his retirement, however, Dr. Krohmer spent much of his time providing physics services for institutions that were shorthanded or in need of other help and serving as the Chairman of the Texas Radiation Advisory Board.

Dr. Krohmer's contributions to radiological physics encompassed many areas. For example: his work on radioisotope applications with Hymer Friedell at Western Reserve resulted in the Sr-90 ophthalmic applicator; he and Fred Bonte did some pioneering work on scanning and recording radioisotope distributions in patients, and he designed the shielding for more radiation oncology facilities than any other physicist worldwide.

Most recently and until his death, Jack worked as the Consultant Director of Physics of the Georgetown Cancer Treatment Center.

The memorial service for Dr. Krohmer began at 2:00 p.m., July 10, 2001, at the First Presbyterian Church in Georgetown, Texas. The church is an older, traditional church, with white clapboard siding and a single steeple; the front doors are made of wood,

painted white, only slightly sagging on their hinges from many years of opening and closing by the congregation. The church is located one block from the town square. The square is typical of many older county-seat towns in Texas (Georgetown is the county seat for Williamson County); the county court house is centered on the square with mature pecan trees at each corner. On the grounds of the square are various memorials, some to upstanding citizens of years gone by and one to Confederate soldiers. Across the square's streets from the county court house, on all four sides, are various retail stores with dates of original construction affixed (e.g., 1896, 1888). Inside the court house are pictures of the pioneers of Williamson County and Georgetown, from the period 1849-1896: women in tight-necked dresses with their hair in buns atop their heads and stern-looking men with full beards.

Approximately 200 attended the service, and not all could fit into the chapel; some had to listen from the community hall in the church's basement. Dr. Krohmer's son, Jack L., was one of three who spoke in tribute . . . at times he evoked tears and at others laughter. In addition to those offering tribute, there was a scriptural lesson, sermon, and singing of "Jesus Loves You," followed by two violinists playing "Amazing Grace" as the congregation filed out.

A reception was held in the community hall, following the service. Punch, cookies, and

cake were served, and people mingled, sharing their memories of Dr. Krohmer. In a conversation with Jack L. at the reception, he mentioned that his dad had been anxiously anticipating the return to his hometown to receive his award as an HPS Fellow, but he had become increasingly debilitated by his disease and was unable to make the trip. Instead, Jack L. attended the meeting and received the award for his father. Jack L. described his experience at the Annual HPS Meeting in Cleveland as being overwhelming. Especially exciting was being able to connect his dad, by cell phone, to many of his old colleagues. The colleagues would approach Jack L. and introduce themselves as being old friends of his dad. Jack L. would call Jack S. and pass the phone to his friend so they could talk (what ended up being) one last time.

Jack L. also said that about a week before his father died, it was necessary to move him from his house to the hospital. Jack L. spent much time with his father in the hospital talking with him and trying to make him comfortable while he was awake . . . Jack S. would fall asleep fairly often.

Two or three days before he died, Jack S. asked his son to take him to his office so he could complete some work. Jack L. agreed never thinking that his father would hold him to it. Jack S. then fell asleep and was so still, so long, that Jack L. had to check to see if he was still breathing. Later, he awoke and asked his son to help him get dressed. He had

Jack L. help him put on the maroon HPS golf shirt that Jack L. had just brought from the Annual HPS Meeting in Cleveland. They spent four hours at his office. Toward the end of the four hours, Jack S. was weak enough that he dictated and Jack L. transcribed. When they completed the last file, Jack S. asked Jack L. if that was the last file. When Jack L. said “yes,” Jack S. said “Well, I guess that finishes my career.”

Dr. Krohmer is survived by his wife of fifty-five years, Doris Lyman Krohmer, his son, Jack L. Krohmer, and his daughter Candace K. Cooke.

Those of us who were honored by knowing Dr. Jack S. Krohmer, offer him our greatest respect and gratitude. ★

STC New Affiliate Bolsters HPS Archives

Susan Jablonski, STC President

The Radiation Research Archive (the Archive) of the Special Collections Library of the University of Tennessee (the other UT) is the home of the archives for the Health Physics Society. The Archive houses a collection of papers from pioneer and contemporary scientists of radiation research, including L.H. Gary; Alexander Hollaender; Antoine Lacassagne; Egon Lorenz; Charles Congdon; Zenon Bacq; Raymond Latarjet; Otto Rahn; Daniel Billen; Warren Sinclair; Farrington Daniels, Jr.; J. Gordon Carlson; and J. Newell Stannard. Thanks to the generous donation of new STC Affiliate, **Advocates for Responsible Disposal in Texas (ARDT)**, a little piece of Texas is now part of the Archive’s collection.

ARDT possessed a unique collection of approximately 50,000 articles and photographs documenting the Chernobyl accident worldwide. The Chernobyl collection includes translated summaries of news articles printed throughout the world in the year that followed the accident and a key-word index for referencing. With a little help from the STC, the Archive in Tennessee was identified as the natural home for such a collection. After logistics and a plan for processing and cataloging this volume of material were worked out, twenty-three boxes containing the collection and index were sent from Texas and successfully received at the Special Collections Library in Knoxville, Tennessee. With the combination of expert preservation skills of the Archive and the unique gift of ARDT, generations of researchers will benefit from the availability and breadth of this body of material within the collections. ★

Future Meetings

DATE	LOCATION	TOPIC
November 9 & 10, 2001 - STC Meeting	Hilton Galveston Island Resort	Health Physics in South Texas: Past, Present, and Future
January 25 & 26, 2002 - STC Meeting	Adam’s Mark Hotel, Riverwalk, San Antonio, TX	Affiliates’ Fair Meeting
February 17 – 20, 2002	Orlando, Florida	35th Midyear Meeting – Health Physics Society
April 26 & 27, 2002 - STC Meeting	College Station, Texas	Student Presentations at the STC Annual Meeting
June 16-20, 2002	Tampa, Florida	Breakfast Meeting at the 47th Annual Meeting – Health Physics Society
November 15 & 16, 2002 - STC Meeting	San Antonio, Texas	Affiliates’s Fair and Local Arrangements Committee Final Planning Meeting



Midyear 2003 Gives South Texas Chapter Another Chance to Impress National HPS, with Your Help

Jim Lewis, LAC Co-Chairman

How often do you get a chance to repeat a great performance? In 1997, the South Texas Chapter hosted the Annual Meeting of the Health Physics Society. We received many compliments from attendees that our 1997 meeting was one of the best meetings ever. And it must have been! With a very short turnaround, the national HPS wants to come back again to San Antonio for the Midyear in 2003. Mark your calendars!

The meeting will take place in the lovely garden-like courtyard setting of the Hyatt Regency Hotel on the

Riverwalk, Sunday, January 19, through Wednesday, January 22, 2003.

San Antonio is a great place for a winter meeting. Attendees will welcome the chance to escape wintry climes to visit a warm(er), friendly city that knows how to make visitors feel at home. Many attendees will come to refresh fond memories from the '97 meeting, while others will discover the unique multi-cultural diversity and easy-going ways of San Antonio for the first time.

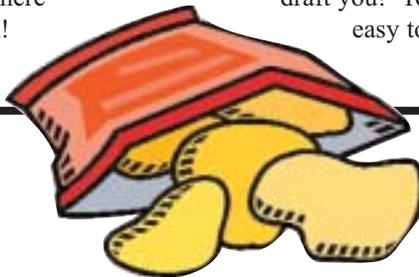
Here's where you come in!

The 1997 meeting was such a great success because of the dedicated teamwork of many South Texas Chapter volunteers on the Local Arrangements Committee (LAC). We planned ahead and worked hard, had a ton of fun, reaffirmed old friendships, and made new ones all at the same time. What more could you ask for? Don't get left out. Volunteer early for LAC Membership and get in on the ground floor. Volunteer now before we remember what a good job you did in '97 and draft you! To make it easy to volunteer,

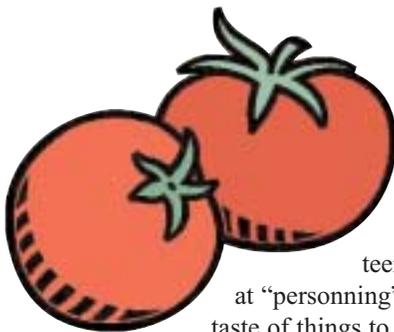
we have set up the following LAC toll-free numbers. Dial (210) 522-2633 for John Hageman [home: (210) 698-2336] or (210) 458-5807 for Jim Lewis [home: (210) 691-2354] or e-mail us at jhageman@swri.org or jlewis@utsa.edu. If you enjoy faxing, try (210) 522-5720 or (210) 458-5813.

Thanks very much for your help! We will make sure you have fun and gainful employment in good company. You are the key to a great repeat performance.

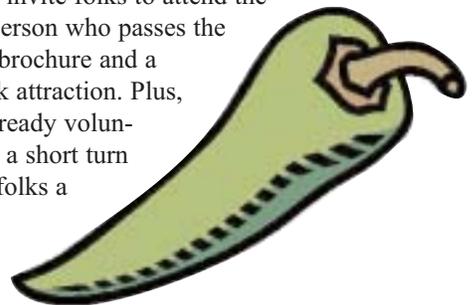
(Psst! Those weren't toll-free numbers). ★



Man the Salsa and Chips! Full Speed Ahead



Going to the HPS Midyear 2002 in Orlando, Florida, February 17th to 20th? Come join us at the "Come to San Antonio! Booth." We will greet old friends and make new ones as we invite folks to attend the upcoming 2003 Midyear in San Antonio. Each person who passes the booth will be offered a San Antonio travel/facts brochure and a sticker or pin advertising a San Antonio landmark attraction. Plus, free Salsa and Chips! South Texas members are already volunteering (could it be the salsa and chips??). Come take a short turn at "personning" (manning and womanning?) the booth, and give folks a taste of things to come. Contact John Hageman at (210) 522-2633 (jph@swri.org) or Jim Lewis at (210) 458-5807 (jlewis@utsa.edu) to be added to the Booth's Volunteer List. ★



Chapter's Members' Recent Publications

Bob Emery

At the STC HPS Executive Council meeting, it was suggested that a section could be included in *The Billet* regarding recent radiation safety and/or research publications by the South Texas Chapter members. For more information or reprints, contact the individual author.

Charlton, M.A., and Emery, R.J. Radioisotope misadministration and dose irregularity trends in Texas. *Health Physics*, in press.

Emery, R.J. Embryo/fetal radiation protection: a basis for comprehensive occupational reproductive health programs. *Chemical Health & Safety*, 8(3): 15-20. 2001.

Emery, R.J., Charlton, M.A., Orders, A.B., and Hernandez, M. Using fault tree analysis to identify causes of non-compliance: enhancing violation outcome data for the purposes of education and prevention. *Health Physics*, 80 (Supplement 1) S16-S21. 2001.

Emery, R.J., Orders, A.B., McCrary, J.R., and Charlton, M.A. An evaluation and comparison of compliance inspection outcome data for radiation protection programs in Maine and Texas. *Health Physics*, in press.

Hageman, J.P. "The storage, treatment, and disposal of mixed wastes generated by medical facilities and academic institutions." Masters Thesis. San Antonio, TX: The University of Texas Health Science Center at San Antonio, Graduate School of Biomedical Sciences. July 2001. ★

South Texas Chapter Raises Profile

Susan Jablonski, STC President

The profile of the South Texas Chapter (STC) in the National Health Physics Society (HPS) has recently been raised to new heights. Doves of STC members have volunteered their services to the Standing Committees and the Board of Directors of the HPS organization. Many STC members are currently serving terms as members and chairpersons of numerous HPS Standing Committees and the Board of Directors. We have had a great many STC members proudly serve the HPS organization throughout its history.

The STC membership should look for two of our fellow STC members on the upcoming HPS Board of Directors' ballot. STC member Ruth McBurney was nominated by the STC and was selected as a candidate for HPS President-Elect for the term beginning in 2002. Ruth is an active member of the STC and has served as the HPS Secretary for the last three

years. STC member John Hageman was nominated by the STC and was selected as a candidate for HPS Board of Directors for the term beginning in 2002. John is an active member of the STC and has been serving as editor of *The Billet* for many years. We encourage you to vote in the upcoming HPS election and give your consideration to both Ruth and John.

Several STC members have recently been appointed as new members to HPS Standing Committees including the following: Ian Hamilton and Willie Regits – Academic Education Committee; Jay Beckel – Public Education Committee; David Fogle – Science Teachers Workshop Committee; Ruth McBurney – Strategic Planning Committee; and Mike Charlton – Symposia Committee. Congratulations and thank you for your service to these new national committee members. ★

POSITION AVAILABLE: Health Physics Technician II

(Requisition 16325)

Guidant VI is looking for a Health Physics Technician to join our Radiation Safety Department in Pearland, TX (south of Houston). This position will be responsible for providing radiation safety support to 2nd-shift source wire manufacturing activities. Responsibilities will include

shipment of radioactive material, receipt of radioactive material, dose rate surveys, contamination surveys, training, equipment maintenance, instrument calibration, radioactive waste management, associated record keeping and documentation of activities, and other duties as assigned. The preferred candidate will

have an AA degree or equivalent work experience plus 2 years of operational health physics technician experience. The ability to train on 1st shift and work on 2nd shift will be required. Good oral and written communication skills along with proficient computer skills especially spreadsheets and database

programs required. This position will be eligible for a 2nd shift (10%) premium.

Please respond directly to: Debbie Engle, Manager, Human Resources Guidant VI, 8934 Kirby Dr., Houston, TX 77054 ★

South Texas Chapter - Health Physics Society

Fall Meeting

Health Physics in South Texas: Past, Present, and Future

Hilton Galveston Island Resort

Friday, November 9, 2001, Pre-conference STC HPS Executive Council Meeting

Saturday, November 10, 2001, Meeting and Technical Sessions

The South Texas Chapter of the Health Physics Society has a rich history that has not only helped shape the profession into what it is today but will continue to be a driving force for the profession in the future. In celebration of this history and in anticipation of what is to come, the Fall 2001 meeting of the STC will focus on the past, present, and future of the Health Physics Society's foremost Chapter:

The Past: The meeting will begin with a recounting

of notable events and lessons learned that shaped the health physics profession,

without borders" will be provided. Presentations by students and faculty from

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The Fall 2001 meeting of the STC will focus on the past, present, and future of the Health Physics Society's foremost Chapter.

as told by the people who experienced them first hand!

The Present: A review of the STC's current involvement in the HPS initiative "health physics

the University of Texas Health Science Center at Houston School of Public Health will provide an overview of the country of Costa Rica, its possible

radiological concerns, and current public health projects underway in that region.

The Future: A fully interactive session will be moderated by President-elect Bob Emery to help establish the direction of the Chapter for the future. The discussion is guaranteed to be lively and provocative!

You won't want to miss this exciting opportunity to learn from the past, understand the present, and shape the future of your Chapter! ★

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CEUs awarded for LMP and MRT certifications*

*Based on evaluation of finalized agenda by TDH Professional Licensure staff.
STC-HPS members will be notified via e-mail of CEU amounts and affected certifications.



STC HPS Fall Meeting

November 9 & 10, 2001

Hilton Galveston Island Resort, Galveston, TX

Health Physics in South Texas: Past, Present, and Future

November 9, 2001

5:00 – 8:00 p.m. Executive council meeting, Hilton Galveston Resort Hotel

November 10, 2001

8:00 – 8:20 a.m. Registration

8:20 – 8:30 a.m. Welcome and Introductions—Bob Emery, STC HPS President-elect

Past - Notable Health Physics Incidents in South Texas

8:30 – 9:00 a.m. How Rules React to Incidents—Bob Wilson, McGines, Lochridge and Kilgore

9:00 – 9:30 a.m. The Todd Shipyard Fire—Russ Meyer, US Ecology

9:30 – 10:00 a.m. Stolen Co-60 Sources—Bob Free, Compliance and Inspection, Texas Bureau of Radiation Control

10:00 – 10:30 a.m. Break

10:30 – 11:00 a.m. Burns from Radiographic Procedures—Dr. Louis Wagner, UT Health Science Center at Houston

11:00 – 11:30 a.m. The Juarez Co-60 Incident and Its Consequences—Richard Ratliff, PE, Texas Bureau of Radiation Control

Present - STC HPS Involvement with Health Physics Without Borders

11:30 a.m. – 12:00 N An Initial Radiological Assessment of Costa Rica
UTHSCH SPH Radiation Safety Class

12:00 – 1:00 p.m. Lunch with Speaker, “Current Public Health Initiatives in Costa Rica”
Dr. Sarah Felknor, Deputy Director, UTHSCH SPH SWCOEH

Future - Where We’re Heading

1:00 – 2:15 p.m. Strategic planning discussion for the future of the chapter—Bob Emery
Introduction
Review of STC HPS mission statement and objectives
Collective SWOT analysis: strengths, weaknesses, opportunities, threats
Questions to consider: • What does the STC HPS do well? • What could the STC HPS do better?
• How is the chapter’s success measured? • How should it be measured?—Membership numbers?
—Revenues?—Collective dose?—Cancer incidence?—Collective compliance?—Number of meetings?
—Meeting attendance?—Perception?—Outreach?
• What portion of the profession should the chapter represent? • Why are people not members?
• What does a prospective member want or expect for the \$10 membership dues?
Development of strategies to address issues identified—Bob Emery
Creation of action item list
Open discussion/remarks

2:15 – 2:30 p.m. Break

2:30 – 3:00 p.m. Business Meeting of the South Texas Chapter

3:00 – 4:00 p.m. Local Arrangements Committee Meeting for National HPS Meeting of 2003

4:00 p.m. Adjournment

Registration

Please submit a registration form for each member or guest attending the meeting and mail to the address below.

2001 Fall Meeting Hilton Galveston Island Resort Galveston, Texas

Pre-Registration Form

STC Registration Deadline — November 1, 2001 ★ Hotel Registration Deadline — October 26, 2001

Attendee's Name _____

Attendee's Address _____

City _____ State _____ Zip _____

STC Member (technical session and lunch) - \$ 45

STC Member (technical session) - \$ 30

Non-STC Member (technical session and lunch) - \$ 55**

Non-STC Member (technical session) - \$ 40

Non-STC Member (lunch ONLY) - \$ 15*

Student (technical session and lunch) - \$ 10

Need a receipt for this meeting

Need CEU certificate

I would like to be a Meeting Mentor

I would like to have a Meeting Mentor
(A Meeting Mentor assists a new attendee in meeting others and answering questions.)

My area of interest or expertise _____

Mail registration form(s) with your check (made payable to the STC-HPS) to arrive before November 1, 2001, to:

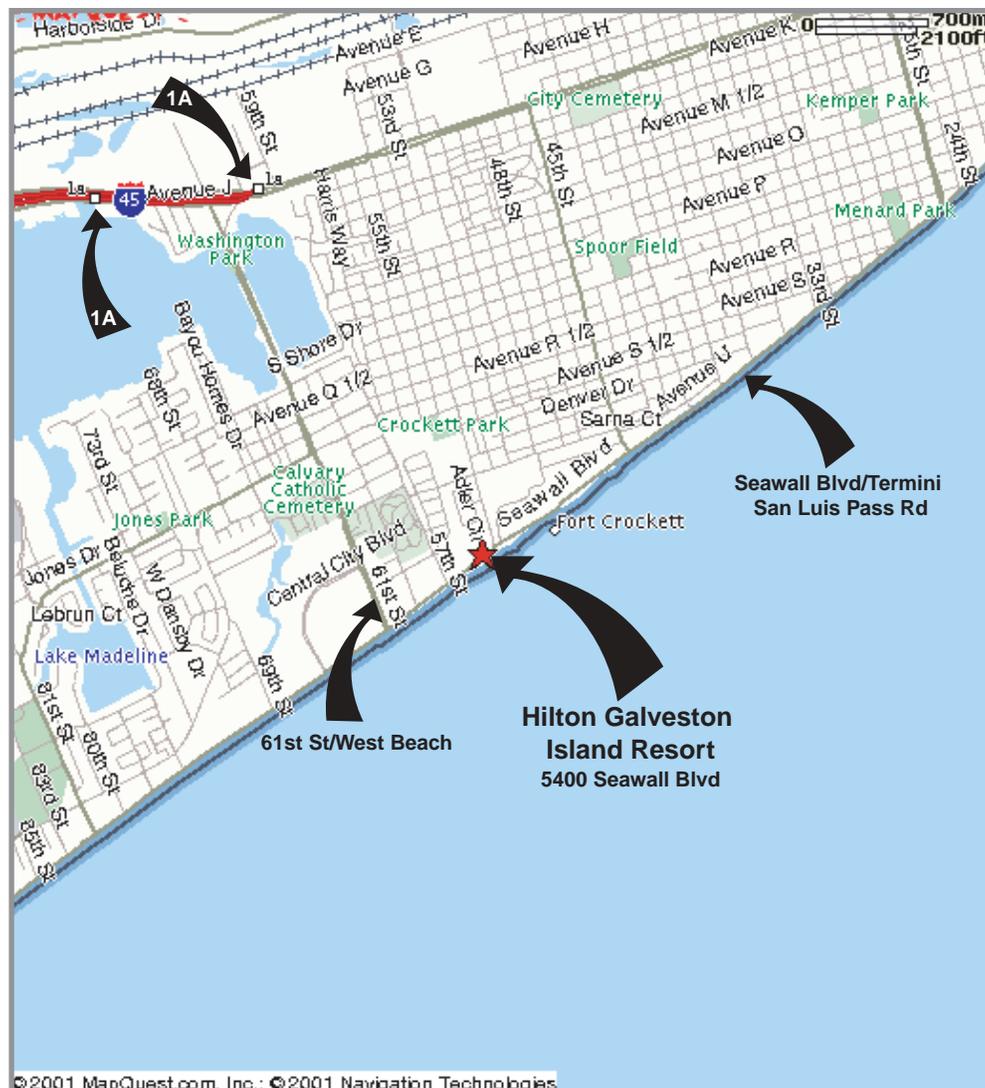
Michael Charlton, Treasurer
South Texas Chapter - HPS
8811 Warley Heights
San Antonio, TX 78254
Phone (210) 567-2955
Fax (210) 567-2965

Pre-registration will close on NOVEMBER 1, 2001. If you will not be able to attend the meeting, please call and cancel your reservation **PRIOR TO NOVEMBER 1, 2001**. Any reservation not canceled by November 1, 2001, will be regarded as a confirmed reservation, and monies will be collected for the meeting. Refunds will be honored only for cancellations made before November 1, 2001. Registration fees collected after November 1, 2001, or at the door, if space is available, will be \$10 extra.

*If contemplating on-site purchase of lunch, meeting space and lunch cannot be guaranteed on the day of the meeting.

** Non-members may select the option of applying for South Texas Chapter–Health Physics Society membership at the meeting and enjoy privileges of membership at future Chapter events.

Map & Directions



Directions to Hotel

From Houston, take I-45 S toward Galveston. Take the exit number 1A, turn SOUTH onto 61ST ST/WEST BEACH. Turn LEFT onto SEAWALL BLVD/TERMINI SAN LUIS PASS RD. The hotel is on the left.

From Austin, take TX-71 E, which becomes TX-71 E/TX-21 E. Take the I-10 EAST/TX-71 EAST exit on the left on the edge of Houston. Stay straight to go onto I-10 E. Take the I-45 SOUTH exit, exit number 768B, on the left toward GALVESTON. Take the exit number 1A, turn SOUTH onto 61ST ST/WEST BEACH. Turn LEFT onto SEAWALL BLVD/TERMINI SAN LUIS PASS RD.

Accommodations

Hilton Galveston Island Resort

5400 Seawall Boulevard
Galveston, Texas 77551

For reservations: (409) 744-5000

A block of rooms has been reserved for Friday, November 9, 2001, and Saturday, November 10, 2001, under the name South Texas Chapter HPS **until October 26, 2001**. Room rates will be \$80 per night, single or double occupancy. To secure these rates, you must call the reservation telephone number listed above and specify that you are with the South Texas Chapter HPS. After October 26, 2001, reservations will continue to be accepted based strictly on room availability; however, extension on the \$80 rate will be unavailable. Therefore, make your reservations early!

Hilton Galveston Island Resort Amenities

Ocean-View Rooms Available,
6 Stories High



Executive Rooms and Suites
Available



Heated Pool Nearby at
Sister Hotel, San Louis



Exercise Room and Tennis Courts



Lobby Bar and Restaurant



Premium Cable TV Including
HBO, CNN



In-Room Coffee Makers, Hair
Dryers, Irons and Ironing Boards



All Rooms Have Voice/Mail and
Modem Capabilities



Health Physics Society South Texas Chapter

P.O. Drawer 28510
San Antonio, TX 78228-0510
ATTN: John Hageman
STCEditor@swri.org



SOUTH TEXAS CHAPTER—HEALTH PHYSICS SOCIETY—2001 AFFILIATE MEMBERSHIP ROSTER

The affiliate membership of the South Texas Chapter (STC) is 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.

ADIT/ELJEN Technology

Chris Maxwell
Post Office Box 870
300 Crane Street
Sweetwater, TX 79556
WEB: www.aditpmt.com
E: cmaxwell@camalott.com
T: (800) 399-4557

Advocates for Responsible Disposal in Texas (ARDT)

Edward Selig
Post Office Box 26767
Austin, TX 78755-0767
WEB: www.ardt.org
E: eselig@ardt.org
T: (512) 452-7065
F: (512) 452-9007

APTEC-NRC Inc.

Steve Vittatoe
Route 2, Box 154F3
Gladewater, TX 75647
WEB: www.aptec-nrc.com
E: svittatoe@canberra.com
T: (903) 297-2987
F: (215) 343-3087

Canberra Industries

Steve Vittatoe
Route 2 Box 154F3
Gladewater, TX 75647
WEB: www.canberra.com
E: svittatoe@canberra.com
T: (903) 297-2987
F: (203) 235-1347

Inovision Radiation Measurements

Todd Jokerst
355 East Vista Ridge Mall Drive, #3423
Lewisville, TX 75067
WEB: www.inovision.com
OR www.surveymeters.com
E: tjokerst@inovision.com
T: (214) 507-0226
F: (972) 459-2194

ISO-TEX Diagnostics, Inc.

Tom Maloney
Post Office Box 909
Friendswood, TX 77546
E: isotex@aol.com
T: (281) 482-1231

Ludlum Measurements, Inc.

Dwane Stevens
Post Office Box 810
501 Oak Street
Sweetwater, TX 79556
WEB: www.ludlums.com
E: rludlum@ludlums.com
T: (800) 622-0828
F: (915) 235-4672

Microtec Services Inc.

Quintin Stokely
110 Charles Street
Pasadena, TX 77506
E: qas.msi@evi.net
T: (713) 475-2274

Owens Scientific, Inc.

Jack Owens/Betty Hail
6906 Escondido Drive
Houston, TX 77083-1118
E: owenssci@flash.net
T: (713) 784-8443
T: (281) 498-3311
F: (281) 933-0522

Perkin Elmer Instruments

Eric Daggett
801 South Illinois Avenue
Oak Ridge, TN 37830
WEB: www.perkinelmer.com
E: eric_daggett@perkinelmer.com
T: (865) 483-2251
F: (865) 483-0396

Perma-Fix Environmental Services

Ben Warren
1940 N.W. 67th Place
Gainesville, FL 32653-1692
WEB: www.perma-fix.com
E: bwarren@perma-fix.com
T: (800) 365-6066
F: (352) 373-0040

Phoenix Scientific Sales

Bill Tucker
Post Office Box 2074
Roswell, GA 30077
E: phoenixsales@mindspring.com
T: (770) 642-8529
F: (770) 642-0466

Protechnics Environmental

Larry Stephenson
6316 Windfern
Houston, TX 77040
WEB: www.protechnics.com
E: lstephenson@corelab.com
T: (713) 328-2356
F: (713) 328-2163

Radiation Technology

Jack Hendrick
Post Office Box 27637
Austin, TX 78755
T: (512) 346-7608

SAINT-GOBAIN Crystals & Detectors

Terrence Moore
343 Knollwood Lane
Woodstock, GA 30188
WEB: www.bicron.com
E: terrence.c.moore@saint-gobain.com
T: (770) 926-1660
F: (770) 926-5541

Dave Stadelman

3650 Aldergrove
Spring, TX 77388
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E: david.p.stadelman@bicron.sgcna.com
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F: (281) 288-7571

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T: (330) 497-5905
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Suntrac Services

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League City, TX 77573
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F: (303) 978-0518

Scott Lamb

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E: slamb@thermoerberline.com
T: (505) 471-3232
F: (505) 428-3535

WEB: www.thermoerberline.com

Thermo MeasureTech

Ralph S. Heyer
(Formerly TN Technologies, Inc.)
Post Office Box 800
Round Rock, TX 78680
E: rheyer@thermoMT.com
T: (512) 388-9287
F: (512) 388-9333

Waste Control Specialists

Greg Broda
Post Office Box 1937
1710 West Broadway
Andrews, TX 77501-9714
WEB: www.wcstexas.com
T: (505) 394-4300
T: (505) 394-3427