



THE BILLET

Health Physics Society ♦ South Texas Chapter ♦ Radiation Safety Specialists

At the November meeting of the South Texas Chapter all the meeting attendees stood in front of the Alamo for their photo.



Jim Sharp took the picture and is the only person not in the photo... Thanks Jim for all your photo work.

High-Energy Electrons Have New Home at Texas A&M University

Douglas A. Johnson

In the fall of 2002, Texas A&M University opened a dual-beam, 10-MeV, 12-KW pulsed electron-beam (E-beam) research facility. Designed and built by the SureBeam Corporation® of San Diego, CA, this is not a prototype but a fully functional, high-throughput, irradiator.

Food or other products are placed on a conveyer belt about 60 cm wide, which moves the food or product into a concrete vault through a series of turns. In the interior of the vault, two accelerators are offset and are positioned above and below gaps in the rollers. A pulsed beam sweeps the width of the belt at about 10 Hz. The electrons are pulsed at about 300 Hz, and dose rates are based on the precise speed of the belt rollers. Doses can reach tens of kGy (a few Megarads) in a single multisecond pass. The electrons act like monoenergetic betas and deposit energy on the surface of the product and, assuming a density of water, energy deposition will increase reaching a maximum dose at a depth of about 2 cm. Dose decreases beyond this depth, but since the beams can be operated in opposition from above

and below the product, deposition at the interior of the product is the summation of the dose tails of the two beams. So, in the case of food products (ground beef), a total thickness of about 9 cm can be effectively treated for E. coli bacteria. Treatment for insects (commonly required for imported fruits) requires a smaller dose, and density differences are accounted for in a dose mapping process.

Since the beam was designed for food production, electron energy and construction materials are designed to preclude photo-neutron activation of the components or food products.

The E-beam facility invites inquiries regarding new investigative opportunities. Security and staff considerations allow for proprietary and classified government work and training to be hosted. Current research activity includes numerous food studies, mold removal from archival documents, and component sterilization. ♦

Douglas A. Johnson is the General Manager of the Electron Beam Food Research Facility at the Institute of Food Science and Engineering at Texas A&M University
E-mail: dougjohnson@tamu.edu.



The accelerator scan horn is directed down toward the conveyer with a foam phantom on the rollers.

THE BILLET**President**

Bob Emery
University of Texas at Houston
Houston (713) 500-8100
bemery@admin4.hsc.uth.tmc.edu

President-Elect

Michael A. Charlton
UTHSC at San Antonio
San Antonio (210) 567-2955
charlton@uthscsa.edu

Past President

Susan M. Jablonski
TCEQ
Austin (512) 239-6731
sjablons@tceq.state.tx.us

Secretary

Mary Van Baalen
UTMB-Environmental Health & Safety
Galveston (409) 772-2279
mvanbaal@utmb.edu

Treasurer

Ken V. Krieger
Earth Tech Inc.
San Antonio (210) 271-0925
ken_krieger@earthtech.com

Executive Council

Christopher W. (Chris) Maxwell
ADIT/Eljen Technology
Sweetwater (800) 399-4557
cm Maxwell@camalott.com

Jim Sharp
Sharp Radiation Safety Services
Alvin (281) 455-7781
jsharp713@aol.com

Stacy Krieger
Brown Engineering Limited
San Antonio (210) 614-4188
smkrieger@browneng.com

Editor

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

Managing Editor

Alana Woods
Southwest Research Institute®
San Antonio (210) 522-3760

Associate Editor

Susan Jablonski
TCEQ
Austin (512) 239-6731
sjablons@tceq.state.tx.us

Technical Editor

David Norman
NORM-Rad Services
Graham (940) 549-6578
David.Norman@norm-rad.com

Graphic Designer

Jean Fox
Southwest Research Institute®
San Antonio (210) 522-2839

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Science Teacher Workshops

Ruben Cortez

The Conference for the Advancement of Science Teaching (CAST) is the annual membership meeting of the Science Teachers Association of Texas. CAST has a national reputation for excellence and is attended by many teachers from other states. CAST 2002 was held in El Paso, Texas, on November 7–9, 2002. The South Texas Chapter of the Health Physics Society (STC-HPS) provided a science teacher workshop on November 9, 2002. Susan Jablonski and Robert Emery did most of the coordination and planning for the workshop with our CAST contact Mercedes Guzman. More than 30 notebooks, CDs, and instruments were prepared for the workshop. Frank Iddings, Jim Lewis, and Ruben Cortez represented the STC-HPS at a CAST workshop.

Upon arrival, it was discovered that there were five teachers signed up for the class. Actually that was the good news! Only one of them showed up for the short course. It helped that there were two walk-ins. So, it was a whopping class of 3! The size of the class was very disappointing because at CAST 2001 in Lubbock, we had to turn teachers away since we only had room for 30 or so. The small class did allow for a great bit of interaction with the three teachers. It was agreed upon by all of the participants that a full-day workshop on the last day of the conference was not the best idea in a remote location like El Paso.

Houston CAST 2003 is scheduled for October 30, 2003, through November 1, 2003, at the Reliant Center in Houston. Our participation with CAST 2002 should help get the STC-HPS a better

time slot at CAST 2003. This science teacher workshop can be one of our best if we apply what we have learned from our experience with past CASTs. ♦



Ruben Cortez, Frank Iddings, and Jim Lewis in front of the projection screen.



Ruben Cortez talking to the class.



Health Physics Society South Texas Chapter

February 17, 2003

George Anastas, Chair
Health Physics Society Nominations Committee
7707 Wyoming Blvd NE, Suite F-2
Albuquerque, NM 87109

Dear Mr. Anastas:

On behalf of the officers and members of the South Texas Chapter of the Health Physics Society (STC-HPS), it gives me great pleasure to submit to you this nomination for Dr. John Poston to be considered as a candidate for the Robley Evans Commemorative Medal. The Evans Medal recognizes excellence in scientific achievement, interdisciplinary capabilities, and real-world problem solving. Dr. Poston has excelled in all three of these areas.

Dr. Poston is certainly one of the most well recognized individuals in the area of academic health physics. He has worked in the field for over 40 years, and his contributions to scientific literature are legendary. In addition to his numerous peer reviewed publications, he has supervised and mentored several generations of students. Within the STC-HPS, we keep track of the individuals who successfully pass part two of the board exam and inevitably, a significant number of the successful candidates are students of Dr. Poston – in one instance, over 50% of the successful candidates had been trained by him!

His contributions to the profession are not restricted solely to activities within the Health Physics Society. His interdisciplinary achievements include lifetime membership in the NCRP (after serving two six year terms) and being one of the original members of the MIRD committee. He has personally interacted with many notable health physics professionals, and he well respected in all circles. We are fortunate to have Dr. Poston as a member of our chapter, and have benefited greatly from his active involvement in our activities. He holds a genuine interest in the protection of public health and the furtherance of our profession.

In our opinion, Dr. Poston personifies the attributes embodied by the Robley Evans Commemorative Medal. I, along with the entire chapter membership, stand ready to provide any additional information that might be needed to support this nomination.

With kindest regards,

[Original Signed]

Robert Emery, DrPH, CHP, CIH, CSP, RBP, CHMM, ARM
President, South Texas Chapter of Health Physics Society



Health Physics Society South Texas Chapter

February 24, 2003

John A. Auxier, CHP
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1
Knoxville, TN 37932

Dear Mr. Auxier:

The South Texas Chapter of the HPS is proud to nominate Robert N. Cherry, Ph.D., CHP for President-Elect for the Health Physics Society. Bob is most qualified to serve the HPS as President-Elect, then as its President, for his sterling work record and experience for the HPS, his employers, and for the nation.

Bob Cherry has served the Health Physics Society by being elected to the Board of Directors and serving from 1996 through 1998. He was also appointed to the Strategic Planning Committee and has served as its Chairman from 1998 to the present. On the local Chapter level Bob has served as the President, of the Baltimore-Washington Chapter (1999-2000) and on the Executive Committee of the South Texas Chapter (1991-1994). Bob is a member of the American Board of Health Physics (2000-2005) and served as the Chairman of the Part 2 Panel of Examiners in 1995.

Bob grew up in Detroit, Michigan where he attended Cass Technical High School and graduated in 1964. From there he attended the University of Michigan and earned his Bachelor's of Science in Physics in 1968, his Master's of Science in Physics in 1972, and his Doctorate of Philosophy (Ph.D.) in Physics in 1975.

Bob's work experience has always been that of a Health Physicist. In August 2001 he started as the Senior Health Physicist for Earth Tech, Inc. in San Antonio, Texas. His duties and accomplishments provide corporate-wide health physics consultation on projects and to individuals; salvaged site characterization project at USAF PR-1 reactor site near Sundance, WY, by assuming control of subcontractor health physics technicians and directing the more efficient use of their talents and equipment; provided professional-level health physics support to High Pressure Tritium Facility decontamination and demolition project at Los Alamos National Laboratory.

From November 1994 to August 2001 Bob was the Army's Radiation Safety Officer at the Headquarters for the Department of the Army in the Pentagon. His duties and accomplishments were to establish and oversee implementation of Army-wide radiation safety policy; Army Staff point of contact for Army radiation safety matters; established first Army-wide radiation safety policy in Army Regulation 11-9; and served as first Army Radiation Safety Officer.

During June 1993 to October 1994 he was the Director of Radiation and Entomological Sciences for the U.S. Army Center for Health Promotion and Preventive Medicine at the Aberdeen Proving Ground, in Maryland. His Duties and accomplishments are: Lead and manage directorate consisting of physicists, health physicists, electrical engineers, entomologists, and administrative support personnel providing Army-wide support in entomology and ionizing and non-ionizing radiation safety; provided steady hand during turmoil of reorganization.

From June 1992 to June 1993 he was the Army's Chief of the Laser Microwave Division U.S. Army Environmental Hygiene Agency. His duties and accomplishments were: Lead and manage division of physicists, health physicists, electrical engineers, and administrative support personnel who provide Army-wide support of radiofrequency radiation and laser safety programs; maintained division cohesion during phased move of division to newly renovated building. From June 1988 to June 1992, he was the Radiation Protection Staff Officer at Sam

Houston, Texas, where he supervised radiation safety program of major Army command over all Army hospitals, health clinics, and dental clinics in U.S, Panama, and Puerto Rico and oversaw the radiation safety activities of the Army Environmental Hygiene Agency; used numerous staff visits to increase professionalism of medical center and community hospital radiation safety officers; eliminated unnecessary surveys of microwave ovens.

He was also an Associate Professor of Physics at the United States Military Academy in West Point, New York from June 1984 to June 1988. He taught undergraduate physics to cadets; taught introductory and modern physics; redesigned and taught nuclear physics course, designed and taught radiological physics course; and was three faculty sponsor of USMA Fencing Club.

August 1978 to June 1984 he was the Radiation Safety Officer at Brooke Army Medical Center in Fort Sam Houston, Texas; Nuclear Medical Science Officer of the U.S. Army Environmental Hygiene Agency at the Aberdeen Proving Ground, Maryland,; and the Assistant J-2 (Radiation Safety) Joint Task Group on Enewetak Atoll's Field Command, with the Defense Nuclear Agency From August 1975 to August 1977 he served as an Assistant Professor of Physics at Hamilton College, in Clinton, New York.

Bob also served as a Forward Observer in Vietnam to provide direct artillery support to infantry companies engaged in combat from November 1970 to August 1971

Bob has trained to be a leader with such courses as: Total Quality Management Facilitator Training (1993), National Security Management Course (Industrial College of the Armed Forces) (1986), Command and General Staff College (1980), and Health Care Administration (1981). He has a working familiarity with the Russian language and has professional-level computer proficiency.

The American Board of Health Physics certified Bob in 1981. Bob's Military awards include the: Legion of Merit, Bronze Star, Meritorious Service Medal (2 OLC), Air Medal, Joint Service Commendation Medal, and Army Commendation Medal

If you have any questions or comments please contact me at (713) 500-8100 (Robert.j.emery@uth.tmc.edu) or John P. Hageman, at 210-522-2633 (jph@swri.org).

With kindest regards,

[Original Signed]

Robert Emery, DrPH, CHP, CIH, CSP, RBP, CHMM, ARM
President, South Texas Chapter of Health Physics Society



Midyear Meeting in San Antonio, Texas

John Hageman

The 2003 Health Physics Society (HPS) Midyear Meeting held in San Antonio, Texas, was perhaps one of the most successful in the Society's recent history. Several people and items came together to make this meeting such a huge success. I want to tell you about some of the behind-the-scenes events that made the meeting so rewarding.

This meeting was planned when no chapters had dared to come forward to host another HPS Midyear Meeting. The HPS Board of Directors was seriously close to eliminating Midyear Meetings because of the lack of interest in hosting a meeting and the very poor attendance at the recent Midyears. The South Texas Chapter (STC) had just finished the 1997 Annual HPS Meeting, and I was reluctant to ask the STC Executive Council if they would host the 2002 or 2003 Midyear. The STC jumped at the chance, but only wanted to do fun Local Arrangements Committee (LAC) work and not the work of reviewing, accepting, and collecting abstracts and papers for the meeting (program activities). As it turned out, the President-Elect of the STC, Mike Charlton was to be the Chairman of the HPS

Symposia Committee, and so the STC, through him, was heavily involved in this massive effort of program activities.

The events of September 11 dictated that the subject of the 2003 Midyear Topical Symposia should be "Radiation Safety Aspects of Homeland Security," and the topic of "and Emergency Response" was added to peak the interest of the Society's Equipment Vendors. For the past several Midyear meetings, the Symposia Committee had three or four abstracts by the required deadline, and the Committee had to go into hyperdrive to beg members to give a paper at the Midyear meeting. This year, there were about 90 abstracts submitted before the deadline. The topic was hot, hot, hot. The "only" work the Symposia Committee had to do was review, approve, and allocate time and type of presentation. This is NO small task! Thanks to all of the HPS Symposia Committee for their great job.

After the topic was established, the STC decided to handle the program activities for the Monday morning's opening Plenary Session. STC members John White and Susan Jablonski knew Dale Klein, the former Chairman of the Texas Radiation Advisory

Board, Vice Chancellor of the University of Texas System, and Assistant to the Sec. of Defense involved in nuclear, chemical, and biological defense programs. They wanted to invite him as one of the key speakers for the 2003 Midyear Meeting. Also, it was only natural to get John Poston, Chairman of the NCRP Report No. 138 "Management of Terrorists Events Involving Radioactive Material" and professor in the Nuclear Engineering Department at Texas A&M University, as another key speaker. Susan Jablonski worked hard to fill the other speaker slots and submit papers.

The 2003 Midyear Meeting was originally planned to have the event entirely within the San Antonio Riverwalk Hyatt Hotel's meeting rooms and ballroom. With recent typical attendance at HPS Midyears at about 300 registrants and 50 exhibitor booths, the Hyatt's meeting space was ample. However, the Hyatt had another larger group that came in late and wanted the same meeting original meeting dates (Jan 19–24, 2003) that the HPS had already contracted for. The Hyatt wanted us to move our meeting to one week later and to hold the Monday-thru-Wednesday

meetings and exhibits in the San Antonio Convention Center. Sue Burk, with the HPS Secretariat's Office, skillfully held out and negotiated for the Hyatt to provide the HPS with \$25,000 worth of hotel services and food for the "inconvenience of this move." But that's not the only blessing. If we had stayed solely with the Hyatt Hotel and not moved to the San Antonio Convention Center we would not have had enough room for the 700+ attendees and the overwhelming number of exhibitors.

If you remember the Night Out event at the 1997 HPS Annual Meeting, we had the "Night Out Never to be Topped." We asked Kathy Cadena to contact the same caterer to host the 2003 Midyear Night Out. She, Jim Lewis, and the caterer arranged for the Night Out to be at the Buckhorn Bar/Museum with an open bar for beer, wine, and margaritas. This Night Out came real close to tying the fun of the 1997 Night Out, but without the armadillo races.

Linda Morris coordinated the 15 Texas students who volunteered to help at this meeting. Because of the massive attendance, they proved to be very useful if not essential. The STC paid for the

students' hotel rooms, and President Frazer and the HPS Executive Committee agreed to allow the Texas students who worked 4 hours each day of the meeting a waiver of the \$55 student registration fee. The Texas schools that allowed students to attend and help with the meeting included Texas A&M University (TAMU), Texas State Technical College (TSTC), and the University of Texas Health Science Center at San Antonio (UTHSC at SA).

So many people worked together to make this Midyear such a successful meeting. Our thanks go to the hard work of the Executive Secretariat's Office, the Symposia Committee, and the members of the South Texas and North Texas Chapters. The volunteers from Texas Chapters are listed in the following by their function(s).

Responsible Individuals

Plenary Session Speakers Arrangements:

Susan Jablonski, John White, Bob Emery

Design and Order T-Shirts:

Susan Jablonski, David Fogle, John Hageman with design help from the Southwest Research Institute® (SwRI®) Publications Staff

T-shirts Sales:

Students from TAMU, TSTC, & UTHSC at SA, Susan Jablonski, David Fogle

Registration and Event Assistance:

Evelyn Cook, Ruth McBurney, Linda Morris, John Salsman, Christy Shriver

Canvas Bag Acquisition:

Bob Cherry, Ken Krieger, Jim Lewis

Canvas Bag Stuffing:

Bob Cherry, Evelyn Cooke, Alta Craft, Roy Craft, Diep Quan Dudek, Bob Emery, David Fogle, John Hageman, Ken Hardy, Janie Hardy, Susan Jablonski, Kathy James, Doug Johnson, Ken Krieger, Stacy Krieger, Jim Lewis, Chris Maxwell, Ruth McBurney, Janet McCrary, Scott Nicholson, John Salsman, Jim Sharp, Sharon Sharp, Christy Shriver, Warren Snell, Jody Spence, Mary Van Baalen, Wayne Wiatrowski, Bob Wilson, & Students from TAMU, TSTC, & UTHSC at SA

Sign Placement:

Linda Morris, Students from TAMU, TSTC, & UTHSC at SA

Premeeting Publicity Booth Workers:

Matt Arno, Ed Bailey, Bill Bryant, Dave Cadena, Kathy Cadena, Mike Charlton, Luz Cheng, Bob Cherry, Evelyn Cooke, Alta Craft, Roy Craft, Bob Emery, Diep Quan Dudek, Al Evans, David Fogle, Maria Gonzales, John Hageman, Ian Hamilton, Ken Hardy, Bill Huckabee, Susan Jablonski, Rick Jacobi, Kathy James, Carl Kee, Ken Krieger, Stacy Krieger, Eva Legler, Steven Legler, Jim Lewis, Robert Lobaugh, Robert Ludlum, Chris Maxwell, Ruth McBurney, Janet McCrary, Chris Meyer, Linda Morris, Karen Myers, Pete Myers, Bud Norton, Rob O'Donel, John Poston, John Salsman, Bruce Schoenbacher, Jim Sharp, Christy Shriver, Jody Spence,

Dwane Stevens, Jane Stevens, Mary Van Baalen, John White, Bob Wilson, Otto Zeck, & Students from TAMU, TSTC, & UTHSC at SA

Exhibitor Assistants:

Bill Bryant, Chris Maxwell

Hospitality Suite:

Kathy Cadena, Alta Craft, Janie Hardy, Ken Hardy, Kathy James

STC Web Site Development:

A.J. Teachout, Robert Ludlum, Nancy Johnson, Marilyn Kelso, Alana Woods (SwRI professional staff)

Night Out Planning:

Kathy Cadena, Jim Lewis

Social Tours:

Kathy Cadena, Sheryl Harley

Technical Tour of Brooks AFB:

Dan Caputo, Ken Krieger, Jim Lewis, Scott Nicholson

PEP Assistants:

Pete Myers, Karen Myers, Chris Maxwell, Jody Spence, Diep Quan Dudek,

Secretary/Minutes:

Pete Myers, Karen Myers

Message Board:

Eva Legler, Steven Legler

LAC Photographer: Jim Sharp, Jim Lewis

Color Map to the Buckhorn and Announcements Flyer:
Jim Lewis, John Hageman and Alana Woods (SwRI professional staff)

5K Fun Run/Walk:

Jim Lewis, John Hageman, John Purnell (Professional Run Mgr.)

Contacting Texas

Emergency Planners:

Pete Myers, Ruth McBurney, David Fogle

Press Room Coordinator:

Bob Emery, Mike Charlton, Janet McCrary, John Poston

LAC/Speaker Ready Room Coordinators:

Mike Charlton, Al Evans

Security Briefing for Companions:

Kathy James

Post Office Booth Coordinator:

John Hageman

Logo Design:

John Hageman with lots of help from the SwRI Publications Staff

GammaWatch® Door Prize:

John Hageman, John McCormick

Students' Coordinators:

Linda Morris, Mike Charlton, Ian Hamilton

TAMU Students:

Jason Ceceaux, Laura Grady, Katie Graebner, Sandra Jimenez, Alexis Lazarine, Becky Raabe, Amy Reiter, Laura Stoicescu, and Jennifer Watson.

TSTC Student:

Ranee Raup

UTHSC at SA Students:

Mehul Naik, Robin Campos, Max Amurao, Eric Dzintars, James Tanyi

LAC Co-Chairmen:

Jim Lewis and John Hageman

Monique

Lacy Orpin
Tech Times Staff

Monique is an enthusiastic member of the Texas State Technical College (TSTC) Student Branch of the HPS. She is looking forward to continuing her Environmental Health & Safety/Health Physics courses with Linda Morris at TSTC.

“**S**he should be home by now; she’s never been this late,” said Monique Ortiz as she anxiously paces around her cozy TSTC campus home’s living room. “She has been gone for five days, I hope they haven’t forgotten about her.” Minutes later, a smile stretches across her face as she scoots from the couch and hurries to the front door and down the sidewalk. “Mommy, mommy” squeals the pint-sized object of worry as she races from the bus and leaps into the arms of her mother for their daily dose of after school hugs and kisses.

“Santer Claus was at school today,” exclaims Monique’s pigtailed five-year-old daughter, Chelsea as she mixes between giggles and excitedly talking herself out of breath. “It’s Santer Claus mommy, not Santa Claus; there is a difference.” She recounts her day’s events to Monique one after another, innocently oblivious to the fact that there are strangers watching the poignant interaction she is sharing with her mother.

As Chelsea wrestles to open her after-school snack of chocolate filled Oreos while chewing an oversized piece of grape bubble gum, Monique asks the Connally Primary kindergartner if her

friends missed her while she was away. “Yes, they all missed me very much,” she confidently announces as she snuggles her way onto Monique’s lap. “I told them I went with my mommy to Colorado.”

The trip in mention was an extended Thanksgiving break to Denver to visit Monique’s parents. Family meetings have become more essential to Monique lately. She needs Chelsea to know her grandparents. She needs to know that in case anything happens to her, Chelsea will be okay. You see, Monique has cancer ... and she is a single mother. Four months ago, the first year, 26-year-old health physics major found herself faced with a harsh reality that has changed her life.

“I went for my annual exam, and it came back abnormal; so I redid it and it turned out that I had ovarian cancer, said Monique. “I had a full hysterectomy at the beginning of September, and I missed the first four weeks of the semester. I went back to Hillcrest for my three-week check-up after that, and that is when they told me it had spread to my liver.”

The ordeal isn’t the first time Monique has faced a health challenge. She battled breast cancer at just 22 and has been forced to become more health conscious because of her family’s history of cancer. Her mother successfully dealt with cervical cancer that required a partial hysterectomy while a 32-year-old aunt died three years ago from ovarian cancer.



Mark Burdine, Photography Coordinator

Keeping Perspective: 26-year-old Monique Ortiz and her daughter Chelsea make the most out of every shared minute. The first-year Health Physics major was diagnosed with cancer in September.

After three weeks of chemotherapy left Monique tired and unable to care for Chelsea, she opted not to continue with the treatment. Doctors have since told Monique that if she does not begin another form of treatment in two months, she may have only 18 months of life remaining.

“For about a week I was so angry and in denial that I didn’t do any of my homework, Monique said candidly. “After that though I was like come on, go get the treatment, everything will be fine. You know Chelsea is only five. I need to see her through

elementary school, first dates, and prom. I am one of the room mothers at her school, and I plan on being that for several more years.”

Thankfully, she was accepted as a patient at the MD Anderson Cancer Center and will undergo the treatment that doctors hope will allow her to make a full recovery. Treatments could send Monique to Austin three days a week, leaving Chelsea in the care of friends during the day. Although she was forced to sell her car to pay for classes and housing at TSTC, the transportation issues are the least of her worries.

“I’m at that point now, where I am looking to move back to Colorado to be near my family,” said Monique. “I am going to need more extensive treatment, and I know I am going to need them to help with my daughter. I have already found a school to go to and a cancer research center there so I wouldn’t have to worry about losing my Medicaid insurance.”

Chelsea is acutely aware her mother is sick. Although she is in the gifted and talented program at her school, there is no way her young mind can comprehend the severity of Monique’s illness. She does however, angelically console Monique with her tiny resources. “She is very concerned how I am feeling. She gets me a drink when I am not feeling well and makes me peanut butter and jelly sandwiches,” said Monique, lovingly stroking Chelsea’s cheek.

Though delicate in stature, Monique appears to be the epitome of health. She wears a constant grin and exudes a bubbly personality. Chelsea rarely leaves Monique’s side as if savoring each moment spent with her mother. The duo has been on their own for nearly all of Chelsea’s life. After enlisting in the US Army, Monique was stationed in Virginia where she met and married Chelsea’s father, Chris Savage. The couple was sent to Germany where Monique later gave birth to Chelsea. Following that, Monique soon found herself stationed at Fort Hood, divorced and pregnant with

Chris’ second child. Faced with the reality that she was not going to be able to care for two children on her own, Monique made plans, while four months pregnant, to have him adopted.

“Why take away from both of them? I wanted both of them to have a wonderful life, and I just couldn’t do it on my own,” said Monique. “I interviewed 111 couples ’till I found exactly what I wanted for my son. I have a completely open relationship with them. They send me pictures every month, and I talk to them every Sunday.”

Because of that close relationship, the couple who adopted her son has also volunteered to adopt Chelsea should something happen to Monique. Following her visit to Colorado, Monique has realized the importance of her own family. “I grew up with all my cousins and everyone around me, and I think Chelsea deserves the same opportunity. I feel selfish keeping her from that, and I also know that in Colorado, Chelsea can stay with my family when I am getting treatment.”

Although there are times that Monique is overcome with anger by the unfairness of her illness, she also allows herself to dream about her future. “I want to get married again, take care of my home, go to banquets with my husband, and watch my daughter grow up. Time is precious right now.”

So is the love she shares with Chelsea. ♦

Canberra’s Presentation at STC-HPS Meeting on Homeland Security Available

*John Smalling
Director of Homeland Security Programs
Canberra Industries*

At the request of Dr. Bob Emery, I am making available a PDF file of the presentation I gave on *Nuclear/Radiological Terrorism*. Bob is free to give any or all of this presentation to anyone who may be interested. It is Canberra’s hope to come to Houston to give a specific version of this presentation to First Responders and to demonstrate several pieces of equipment.

For a copy of the Texas Presentation PDF, contact John P. Smalling at 423-282-4621 (office), 423-282-3818 (fax), smalling@canberra.com (email), or <http://www.canberra.com/homeland.htm>. ♦

Ludlum Instruments Must Be Selling

Rick Jacobi

In Sweetwater, Texas, the home of Ludlum Measurements, Inc., a business news article stated that Ludlum Measurements, who employs 200 people is expanding to add 100 more employees. You can visit this STC Affiliate’s web site at <http://www.ludlums.com>. ♦

Change of Address for David Fogle

ATTENTION STC members! STC Membership Committee Chair David Fogle’s address has changed. Even though the U.S. Postal Service will forward mail addressed to the Cervin Boulevard address for about 3 months, use of the new address would assure prompt delivery of Chapter dues renewals. The dues renewal form should have the following address:

NEW ADDRESS:

David Fogle
14904 Haley Hollow
Austin, TX 78728

When writing your check for STC dues, please support your Chapter’s principal initiatives by contributing to the Science Teacher Workshops or Student Scholarship Fund.

Thanks,
Mary Van Baalen, STC Secretary

President-Elect Kase

Michael A. Charlton



(L-R) Bob Emery (STC President), Ken Kase (HPS President-Elect), and Mike Charlton (STC President-Elect)



(L-R) Janet McCrary, Bob Emery (STC President), and Ken Kase (HPS President-Elect)

The National HPS President-Elect Dr. Ken Kase was treated to a warm South Texas welcome on November 15–16, 2002, in San Antonio, Texas, where the South Texas Chapter of the Health Physics Society hosted their annual Affiliate Fair at the Hyatt Regency Hotel. The STC-HPS meeting was held in the same hotel that hosted the 36th Annual Midyear Symposia on January 26–29, 2003.

Attendees were delighted by the innovative programs described by a variety of Affiliate members in the morning program. The luncheon of Texas-style beef and chicken fajitas culminated in a keynote lecture by President-Elect Kase. Dr. Kase presented numerous Health Physics Society programs including Homeland Defense, Radiation Safety Without Borders, public education through Science Teacher Workshops, and health physics college educational initiatives. His theme of “We Want You” to participate in national programs motivated the audience.

Storms The Alamo!



Steven and Eva Legler bask in the glow of the Alamo

Following the keynote lecture, meeting participants strolled one block to the historic Alamo for a photo opportunity with Dr. Kase. The Texans successfully defended The Alamo so that attendees of the 2003 HPS Midyear would be able to experience the national treasure in January!

President Emery dedicated afternoon sessions to a variety of STC-HPS initiatives including a Radiation Safety Without Borders trip to Costa Rica. Dr. Emery described his meeting with “El Jefe” or “The Leader” of the Costa Rica radiation protection program during his August 2002 visit. Local Arrangement Co-Chairs John Hageman and Jim Lewis discussed final planning for the 2003 Midyear in San Antonio.

The gathering concluded with students from Texas A&M University and Texas State Technical College making a clean sweep of Affiliate door prizes. President-Elect Kase concluded that the South Texas Chapter is the “most spirited” chapter around! ♦



(L-R) Susan Jablonski (STC Past-President), David Fogle (STC Membership Committee Chair), Ken Kase, and Mike Charlton sipping suds

Fall 2003 Education Grants Available

Deadline
May 27, 2003

Please refer to financial information form and application form on this page and the next.

STC-HPS Education Grant Application: Financial Information (Sept '03 – Aug '04)

Name: _____

Check all that apply:

- | | | |
|--|------------------------------------|---------------------------------------|
| 1. Where and with whom do you live? | 2. Degree: | 3. Tuition residency: |
| <input type="checkbox"/> On-campus housing | <input type="checkbox"/> Associate | <input type="checkbox"/> In-state |
| <input type="checkbox"/> Off-campus housing | <input type="checkbox"/> Bachelor | <input type="checkbox"/> Out of state |
| <input type="checkbox"/> Alone | <input type="checkbox"/> Graduate | |
| <input type="checkbox"/> Spouse | | |
| <input type="checkbox"/> Children. Number? _____ | | |
| <input type="checkbox"/> Parents/relatives | | |
| <input type="checkbox"/> Unrelated roommates | | |

Income	\$/month	Expenses	\$/month
Spouse working		Housing & Utilities	
Summer job/school job		Automobile (payments, gas, insurance, etc.)	
From parents/relatives/guardians		Food	
Child support payments		Child support payments	
Savings/investments		Other (list):	
Scholarships/grants (list them):			
Social Security Benefits			
VA Benefits (Educational and/or Disability)		Expenses Total	
TRC or JTPA		Additional Comments/Extenuating Circumstances [attach additional page(s) if needed]:	
Other (list):			
Income Total			
Loans (list):			
Loans Total			

SOUTH TEXAS CHAPTER - Health Physics Society
Education Grant Application
Associate/Bachelor/Graduate Degree
 Academic Year: 2003-2004

The South Texas Chapter of the Health Physics Society (STC-HPS) announces the availability of its Education Grants. The applicant must plan to begin, or be currently performing, full-time work toward an associate, bachelor, or graduate degree in health physics or a related field offered by a bona fide program at a Texas institution of higher education. All applicants must have finished one session by September 2002. Deadline for the receipt of applications and all supporting materials is **May 27, 2003**. Award winners will be announced at the subsequent Chapter meeting. The STC-HPS Education Grant is \$750, and several awards will be made. One grant will be made at each degree level, and one additional award may be made without regard to degree program. The application below and all other supporting materials should be mailed to:

Linda Morris, Chair
 Student Assistance Committee, STC-HPS
 TSTC Waco, Health Physics/EHS
 3801 Campus Drive
 Waco, TX 76705

Degree Program:

- Associate
 Bachelor
 Graduate

1. Name: _____ 2. Phone: _____
 3. Address: _____ (E-Mail: _____)

4. Undergraduate Institution:

5. GPA:

Submit copies of all current transcripts including Fall semester 2002.

6. SAT, ACT, GRE (circle one) Scores (BS and graduate): Math: _____ Verbal: _____

Enclose a copy of your SAT, ACT, or GRE scores. Composite (ACT): _____ GRE: _____

7. Statement of financial support: On the "STC-HPS Education Grant Application: Financial Information" form, provide a detailed account of all sources of income and expenses for the period of support September 2003 – August 2004. Insufficient data may result in delays in processing your application.

8. Statement of personal goals: Provide a separate one-page statement about your personal career goals including a statement about your intent to enter the field of health physics.

9. Letters of recommendation: Names of two persons whom you will ask to write letters attesting to your potential for study in health physics.

1. _____ 2. _____

Support for Atomic Energy Merit Badge

Albert (Al) E. Evans

Counseling Boy Scout candidates for the Atomic-Energy Merit Badge is a way to bring nuclear technology to boys in age from 11 to 17. Requirements for the badge, addressed in a 75-page pamphlet, cover information about

- ♦ basic atomic and nuclear physics principles
- ♦ history of the evolution of our knowledge of nuclear physics
- ♦ types and behavior of radiation
- ♦ radiation safety
- ♦ existence of natural and manmade radiation in the world
- ♦ applications of radiation

The boys are examined for what they have learned from the pamphlet and other reading material. They then participate in some simple exercises and model building to enhance their understanding. The material can be covered for 10 or fewer boys in about three hours. A visit to a facility such as a hospital with nuclear medicine and/or x-ray equipment can meet two of the optional requirements. Arrangements to teach the course can be made through any Scoutmaster or through your local/area Boy Scout Council. ♦



STC member and Boy Scout Unit Commissioner Al Evans (back) presents the Atomic Energy Merit Badge to (left to right) Chris Hale, Jason Klix, Stephen Moore, and Michael Fuentes at the January 20, 2003, Court of Honor held by Scout Troop 1199 at the Holy Cross Episcopal Church in Sugar Land, Texas.

CHANGING YOUR ADDRESS?

Don't miss one issue of *The Billet*

CHANGING office? home? e-mail? phone?

NOTIFY David Fogle ON-LINE NOW AT!

David.Fogle@tdh.state.tx.us

South Texas Chapter of Health Physics Society, Inc.

Spring Meeting

**Texas A&M University – Memorial Student Center
College Station, Texas**

April 25–26, 2003

This meeting will be dedicated to facilitating all of the ideals on which our Chapter was founded and will provide an opportunity to interact with radiation protection professionals throughout Texas. Students will provide presentations about their research and compete for the Richard D. Neff Memorial Student Award, a \$100 cash award.

The meeting will also feature a luncheon presentation from Mr. David R. Bates, Director of Media Relations at the UT Houston Health

Science Center. This presentation will outline the new public relations role the health physicist faces in the public health/homeland defense

◆

***Students
will provide
presentations...***

◆

realm. Specific instances of South Texas Chapter members interacting with a variety of media outlets will be displayed

and reviewed. A media “preparedness” presentation of this nature is the first of its kind for the STC-HPS.

STC President Dr. Robert Emery will present an informative report on the “State of the Chapter,” and Treasurer Kenneth Krieger will present a report on the Chapter financial status.

The STC-HPS Executive Council will meet on Friday, April 25, 2003, from 5 pm to 6:30 pm in the Memorial Student Center on the Texas A&M University campus. An informal reception with

current health physics student members is planned immediately following the Executive

◆

***...interacting
with a
variety of media
outlets...***

◆

Council meeting in College Station’s historic “Northgate” area. All members and students are invited to attend the informal reception!

◆

CEUs Awarded for LMP & 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.*

◆

Future Meetings			
Date	Location	Topic	Deadline for <i>The Billet</i>
April 26, 2003	Texas A&M University College Station, Texas	Student Papers	NA
July 20–24, 2003	San Diego, California	National HPS Meeting	NA

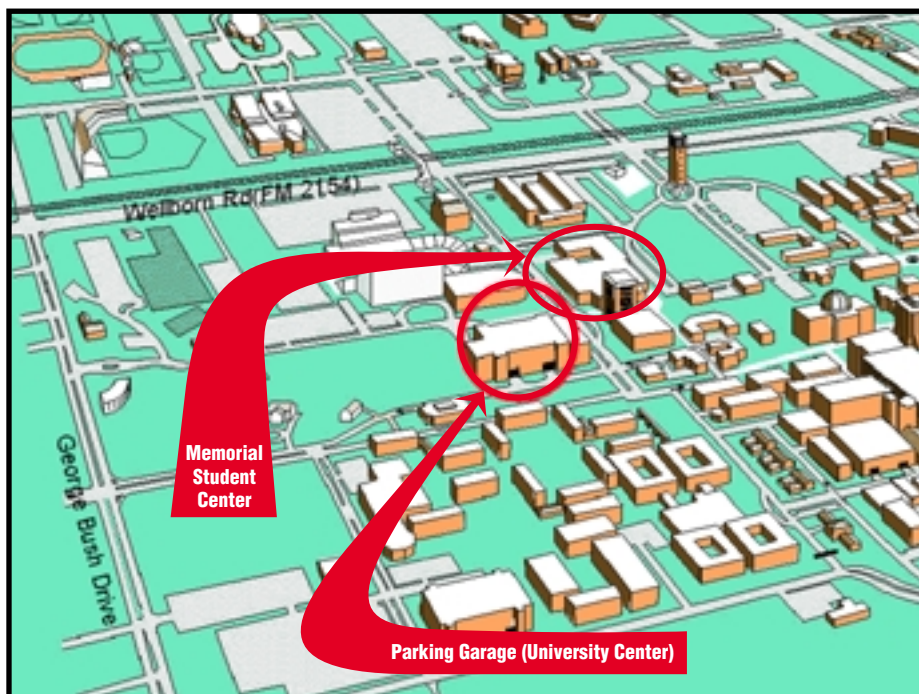
Map to Memorial Student Center and Parking

Directions

From Austin & San Antonio: Take IH-35 North to Hwy 290 East to State Route 21. East on State Route 21 to Hwy 47 (on outskirts of Bryan near Texas A&M Riverside Campus). Head east on Hwy 47 (which will eventually become Hwy 60 or University Drive). Past Easterwood Airport exit, veer to the right onto West By-Pass (2818). Turn left at stoplight onto George Bush Drive. Continue north-west on George Bush Drive to Houston St. (2nd stoplight). Turn left on Houston St. to enter the University Center Parking Garage.

From Houston: Take Loop 610 South/West. Take the Highway 290 exit (towards Austin). Stay on Hwy 290 until you reach Hwy 6 (just north of Hempstead). Turn right onto Hwy 6 North all the way to College Station. Near College Station, continue north on BUSINESS 6 (Texas Ave.) to George Bush Drive. Turn left onto George Bush Drive. Continue west on George Bush Drive to Houston Street (3rd stoplight). Turn right on Houston St. to enter the University Center Parking Garage.

Parking tokens will be available during the meeting for use at the University Center Parking Garage.



Accommodations

Hilton College Station

801 University Drive East, College Station, TX 77840 ♦ 1 (800) HILTONS or (979) 693-7500

The Hilton College Station and Conference Center is one mile from Texas A&M University. The conveniently located hotel offers more than 26,000 square feet of meeting space for business and social occasions, a spacious outdoor pool, and a state-of-the-art exercise room. Within a three-mile radius of the hotel, guests can shop or dine at the Post Oak Mall or sightsee at the Brazos Valley Museum or George Bush Presidential Library. The Hilton's restaurant, the Plaza Café is open from 6:30 am to 11:00 pm. The Gallery Bar offers a relaxed setting for cocktails in the evening.

IMPORTANT NOTICE

A block of rooms has been reserved for Friday, April 25, and Saturday, April 26, 2003, until April 4, 2003, under the name "South Texas Chapter Health Physics Society." The event name is "Student Research Project Competition." Room rates will be \$80 per night – single or double occupancy. Room rates are subject to applicable state and local taxes. A limited number of rooms are available under this room block. To secure these excellent rates, you must call the reservation telephone number listed above EARLY and specify that you are with the South Texas Chapter Health Physics Society. After the reservation deadline, Hilton anticipates that no rooms will be available at this rate, so make your reservations early!

Preliminary Agenda

Friday, April 25, 2003

- 5:00 – 6:30 p.m. Executive Council Meeting
Rudder Tower, Room 504
Texas A&M University
- 7:00 – 10:00 p.m. Informal Reception (all members welcome)
Dixie Chicken on Northgate

Saturday, April 26, 2003

Memorial Student Center – Texas A&M University

- 8:00 – 8:20 a.m. Registration and Continental Breakfast
Room 292
- 8:20 – 8:30 a.m. Welcome and Introductions – Mike Charlton, Ph.D., STC-HPS President-Elect
Room 292
- 8:30 – 10:00 a.m. Student Presentations
Room 292
- 10:00 – 10:30 a.m. Break and Professional Networking – Coffee, Assorted Teas, and Baked Goods
Room 292
- 10:30 – 12:00 pm Student Presentations
Room 292
- 12:00 – 1:30 p.m. Bar-B-Que Beef Brisket Lunch
David Bates, Director of Media Relations – UTHSC-Houston
“Media Preparedness for the Health Physics Community”
Room 201
- 1:30 – 3:00 p.m. Affiliate Member Demonstration & Presentations
Room 292
- 3:00 – 3:30 p.m. Break – Snacks, Coffee, and Sodas
Room 292
- 3:30 – 4:00 p.m. State of the Chapter Address – Robert Emery, Ph.D., STC-HPS President
Room 292
- 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.

Spring Meeting and Student Presentations

April 25–26, 2003

Hilton College Station ♦ College Station, Texas

Pre-Registration Form

Hotel Registration Deadline — April 11, 2003 ♦ STC Registration Deadline — April 18, 2003

Attendee's Name _____

Attendee's Address _____

City _____ State _____ Zip _____

- STC Member (technical session and lunch) - \$ 45
- STC Member (technical session ONLY) - \$ 25

- Non-STC Member (technical session and lunch) - \$ 55**
- Non-STC Member (technical session ONLY) - \$ 40
- Non-STC Member (lunch ONLY) - \$ 35*

- Student (technical session and lunch) - \$ 10

- Need a receipt for this meeting
- Need CEU certificate

Mail registration form(s) with your check (made payable to the STC-HPS) to arrive **before April 18, 2003**, to:

Kenneth V. Krieger
5003 Northfield Drive
San Antonio, TX 78228-1064
Phone (210) 271-0925
Fax (210) 271-3061

Preregistration will close on April 18, 2003. If you will not be able to attend the meeting, please call and cancel your reservation **PRIOR TO APRIL 18, 2003**. Any reservations **not cancelled by April 18, 2003**, will be regarded as confirmed reservations, and funds will be collected for the meeting. Refunds will be honored only for cancellations made before April 18, 2003. Registration fees collected after April 18, 2003, or at the door, if 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.

**Nonmembers 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.

South Texas Chapter – Health Physics Society Chapter Dues Payment/Membership Application Form

(Please Print – This information is used for mailing labels and directory listing.)

Name _____	Business Name _____
Home Address _____	Business Address _____
_____	_____
_____	_____
Home Phone _____	Business Phone _____
Home Fax _____	Business Fax _____
Email _____	

<input type="checkbox"/> I would prefer to receive mail at: <input type="checkbox"/> Home <input type="checkbox"/> Business <input type="checkbox"/> I would prefer to receive calls at: <input type="checkbox"/> Home <input type="checkbox"/> Business <input type="checkbox"/> Yes, I am a National HPS member. <input type="checkbox"/> Yes, I am a Certified Health Physicist. <input type="checkbox"/> Yes, I am a Registered Radiation Protection Technologist.	<input type="checkbox"/> I would like to be a Meeting Mentor My interest or area of expertise _____ _____
--	---

Please check the STC-HPS committee(s) on which you would like to actively serve.

<input type="checkbox"/> Nominating	<input type="checkbox"/> Meeting Program	<input type="checkbox"/> Membership	<input type="checkbox"/> Publications
<input type="checkbox"/> Legislation	<input type="checkbox"/> Public Relations	<input type="checkbox"/> Affiliate	<input type="checkbox"/> Other/Ad Hoc
<input type="checkbox"/> Student Assistance			

Enclosed is my check # _____ made payable to the STC-HPS for the following:

STC-HPS dues for the year:

Regular membership:	\$10.00/yr × _____ Years	= \$ _____
Student membership:	\$5.00/yr × _____ Years	= \$ _____
Student Scholarship Fund Donation (tax deductible)*		= \$ _____
Science Teachers Workshop Donation (tax deductible)*		= \$ _____
Total Enclosed		= \$ _____

*For two \$10 donations you get a free STC lapel pin.

Please mail this form with your check or money order (please do not mail cash) to:

David B. Fogle
 Membership Committee Chair
 14904 Haley Hollow
 Austin, TX 78728

Phone: (512) 834-6688, x2203
 Fax: (512) 834-6690
 Email: david.fogle@tdh.state.tx.us



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—2003 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
303 Crane Street
Sweetwater, TX 79556
WEB: www.aditpmt.com
E: cm Maxwell@aditpmt.com
T: 800-399-4557
F: 915-235-2872

APTEC-NRC, Inc.

Steve Vittatoe
Route 2 Box 154F3
Gladewater, TX 75647
WEB: www.canberra.com
E: svittatoe@canberra.com
T: 903-297-2987
F: 603-971-6389

Atomic Energy Industrial Laboratories of the Southwest, Inc.

Steven H. Allen
9261 Kirby Drive
Houston, TX 77054
WEB: www.aeil.com
E: shallen@aeil.com
T: 877-866-2345
F: 713-790-0542

Bicron NE

Terrence Moore
2964 Forest Chase Terrace
Marietta, GA 30066
WEB: www.detectors.saint-gobain.com
E: terrence.c.moore@saint-gobain.com
T: 770-926-1660
F: 770-926-5541

Bionomics, Inc.

John McCormick
Post Office Box 817
1391 James Ferry Road
Kingston, TN 37763
E: j_mccormick_bionomics@email.msn.com
T: 865-376-0053
F: 865-376-4291

Canberra Industries

Steve Vittatoe
Route 2 Box 154F3
Gladewater, TX 75647
WEB: www.canberra.com
E: svittatoe@canberra.com
T: 903-297-2987
F: 603-971-6389

Earth Tech Inc.

Carl Forbes
110 Broadway Ste. 320
San Antonio, TX 78205
WEB: www.earthtech.com
E: ken_krieger@earthtech.com
T: 210-271-0925
F: 210-271-3061

F&J Speciality Products, Inc.

Frank Gavila
404 Cypress Road
Ocala, FL 34472
WEB: www.fjspecialty.com
E: fandj@atlantic.net
T: 352-680-1177
F: 352-680-1454

ICN Worldwide Dosimetry Service

Phil Harris
3300 Hyland
Costa Mesa, CA 92626
WEB: www.dosimetry.com
E: pharris@icnpharm.com
T: 800-548-0136 Ext. 9379
F: 714-668-3149

Inovision Radiation Measurements

Bryan Hughes
1011 Goldfinch
Sugarland, TX 77478
WEB: www.inovision.com
OR www.surveymeters.com
E: bhughes@inovision.com
T: 800-850-4608 Ext. 3715
F: 281-494-5174

ISO-TEX

Tom Maloney
Post Office Box 909
Friendswood, TX 77546
WEB: www.isotexdiagnostics.com
E: isotex@aol.com
T: 281-482-1231
F: 281-482-1070

K&S Associates, Inc.

Thomas Slowey
1926 Elm Tree Drive
Nashville, TN 37210
WEB: www.kslab.com
E: tslowey@kslab.com
T: 615-883-9760
F: 615-871-0856

Ludlum Measurements, Inc.

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

Microtec Services Inc.

Quintin Stokely
110 Charles Street
Pasadena, TX 77506
E: qas.msi@ev1.net
T: 713-475-2274
F: 713-475-2362

Owens Scientific, Inc.

Jack Owens
6906 Escondido Drive
Houston, TX 77083-1118
E: owenssci@flash.net
T: 281-498-3311
F: 281-933-0522

Perma-Fix Environmental Services

Ben Warren
Bryan Hughes
1940 N.W. 67th Place
Gainesville, FL 32653-1692
WEB: www.perma-fix.com
E: bwarren@perma-fix.com
T: 352-395-1352
F: 352-372-8963

Phoenix Scientific Sales

Bill Tucker
Post Office Box 2074
Roswell, GA 30076
E: phoenixsales@mindspring.com
T: 770-642-8529
F: 770-642-0466

Protechnics Environmental Services, Inc.

Larry Stephenson
6316 Windfern Rd.
Houston, TX 77040
T: 281-496-3734

PULCIR, Inc.

Scott Eddlemon
9209 Oak Ridge Parkway
Oak Ridge, TN 37830-3500
WEB: www.pulcir.com
E: sales@pulcir.com
T: 800-862-1390

Radiation Technology

Jack Hendrick
Post Office Box 27637
Austin, TX 78755
E: Radiatontech@msn.com
T: 512-346-7608
F: 512-795-8718

Research Products International Corp.

Albert L. Ecker
410 North Business Center Dr.
Mt. Prospect, IL 60056
WEB: www.rpicorp.com
E: services@rpicorp.com
T: 847-635-7330
F: 847-635-1177

SAINT-GOBAIN Crystals & Detectors

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2964 Forest Chase Terrace
Marietta, GA 30066
WEB: www.detectors.saint-gobain.com
E: Terrence.C.Moore@saint-gobain.com
T: 770-926-1660
F: 770-926-5541

Solutient Technologies, LLC

Steve Pocock
7857 Freedom Ave., NW
North Canton, OH 44720
WEB: www.solutientech.com
E: spocock@solutientech.com
T: 330-497-5905, 877-787-8721
F: 330-497-2045

Southwest Research Institute

John Hageman
Honorary Affiliate
6220 Culebra Road
San Antonio, TX 78238-5166
WEB: www.swri.org
E: jhageman@swri.org
T: 210-522-2633

Suntrac Services

Rob O'Donel
1818 East Main Street
League City, TX 77573
WEB: www.suntrac.com
E: rob@suntrac.com
T: 281-338-2133
F: 281-338-2136

Texas Energy Research Associates, Inc.

5926 Balcones Dr. Suite 400
Austin, TX 78731

Texas State Technical College

Linda Morris
Honorary Affiliate
3801 Campus Drive
Waco, TX 76705
E: lmmorris@tstc.edu
T: 254-867-2952

The Delphi Groupe, Inc.

Ron Gauny
2211 South Interstate Highway 35, Suite 400
Austin, TX 78741
WEB: www.delphigroupe.com
T: 512-462-1181
F: 512-462-1187

Thermo-Eberline Instruments

Denny Cannon
Post Office Box 621059
Littleton, CO 80162
WEB: www.thermoerberline.com
E: DCannon@thermoerberline.com
T: 303-948-5001
F: 303-978-0518

Thermo MeasureTech

Ralph S. Heyer
2555 North I.H. 35
Round Rock, TX 78664
WEB: www.thermo.com
E: rhey@thermoMT.com
T: 512-388-9287
F: 512-388-9333

William B. Johnson

Dick Landfried
Post Office Box 472
200 A.E.I. Drive
Fairlea, WV 24902
WEB: www.johnsonnuclear.com
T: 304-645-6568
F: 304-645-2182