



alumni
association

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DECEMBER 2010 NEWSLETTER



MESSAGE FROM PRESIDENT BOYD FAIR



Boyd Fair

As 2010 comes to a close, I am pleased to inform you that the SRI Alumni Association is alive and well. Our bank balance remains healthy and our membership steady. This is the last newsletter of the year, and we hope you will enjoy the articles.

Were you at the reunion in Menlo Park?

Well, more than 100 of your colleagues and friends were, and they all had a good time. In addition to good food and time to socialize, we heard about SRI's excellent financial performance this year and future plans from Curt Carlson. He also told us more about SRI's recent spin-offs and progress on integrating the Sarnoff staff and technologies into the SRI corporate system. Our guest speaker was Eric Pearson, who gave an overview of the Physical Sciences Division and described many of the technologies his staff is working on. For those of you who weren't in attendance, we have included many pictures of the event.

Why did it take so long? More than 40 years ago, SRI developed the Optacon, a device to help the visually impaired read printed materials. Although the Optacon enjoyed limited commercial success, the National Science Foundation now has awarded a grant to see whether a prototype based on that device can be developed using SRI's electroactive polymer artificial muscle. Read more about this and other news from SRI inside!

What are your alumni colleagues doing? Peter Miles has trekked to Mt. Kailas in Tibet. Donna Baranski-Walker was awarded the Medal of Gratitude in Poland for her support of the Solidarity Movement there. I think you will find both these

articles very interesting. What have you been doing that others would like to hear about? Let us know!

Who deserves thank you's? The volunteers who work so hard on the Steering and Archive Committees! These people donate their time and energy to maintain the SRI archive, assist SRI in any way requested, and provide a conduit for you to stay abreast of SRI activities and enjoy occasional outings together. I thank them all and give special thanks to Steering Committee members Tom Anyos, Murray Baron, Joyce Berry, Mimi Campbell, Russ Dewey, Linda Hawke-Gerrans, Marlyn Johnson, Klaus Krause, Phil Monti, Don Nielson, Kitta Reeds, Bob Schwaar, Pete Valenti, and Fred Weil.

Will you see changes next year? Yes, you will! SRI is currently redoing its Web architecture, and the alumni website will be modified to reflect these changes. In addition, our membership database will be migrated over to an SRI-hosted server, which will provide the ability for more user interaction in the future.

Some new members are joining the Steering Committee next year. Jake Feinler will work with Kitta Reeds to revise our Hall of Fame selection process. Carolyn Terrill has agreed to work with Joyce Berry to maintain and update the membership database once it has been migrated to the SRI server. Finally, Kay Clarke will work with Tom Anyos on future Alumni Association social events. If you are interested in becoming involved, please let me know. We would warmly welcome more volunteers.

I hope you have enjoyed the Alumni Association's activities and newsletters of 2010, and I want to take this opportunity to wish you all a very happy holiday season and a happy, healthy, and prosperous New Year.

— Boyd

2010 ANNUAL ALUMNI REUNION

2010 Annual Alumni Reunion in Menlo Park

SRI alumni gathered at the International Building on September 21 for the annual chance to catch up on news about each other and about the institute. More than 100 alumni and guests enjoyed hors d'oeuvres and drinks while chatting in the lobby, and they were serenaded into the meeting room by the Institooters before the program began.



Curt Carlson gave a State of the Institute presentation, mentioning that more than \$1 billion in proposals were outstanding and that the recent win rate was very good. Eric Pearson, Vice President of the Physical Sciences Division, described the research activities of his division.



All those attending enjoyed the conviviality, interesting speakers, delicious food, and complimentary SRI Alumni baseball caps and visors.

Thanks to Tom Anyos, who organized the event and contributed a raffle prize; Joyce Berry, Jane Cano, Marlyn Johnson, and Opal McCaffrey, who greeted everyone at the registration desk; Jane Cano, who made the leis for alumni committee members and the lovely flower arrangements; Pete Valenti, who arranged for the Credit Union's financial support and ordered the caps and visors; Sandy Hinzmann, who contributed raffle prizes from Staff Activities; Murray Baron, who arranged to have the Institooters play; and Arturo Franco and Kerri Carder-McCoy from Conference Services, who made the arrangements for such a pleasant time.



Opal McCaffrey, Jane Cano, Joyce Berry, and Marlyn Johnson welcomed members and guests.



The Institooters provided welcoming tunes.

*Many thanks to our reunion photographers,
Don Berry, Boyd Fair, and Dick Krebs.*



2010 ANNUAL ALUMNI REUNION (Continued)



INTERNATIONAL JOURNAL

SRI UK Alumni Reunion: Subterranean London

By Gia Campari

The SRI UK alumni chose a stunningly beautiful—if somewhat blustery and cold—day (7 November) for our autumn reunion. The main attraction, apart from catching up with old friends and colleagues, was yet another informative London Walk. This time, the theme was Subterranean London. These walks have proved to be popular because they allow time for chatting as we walk from one point of interest to another, and the guides hold our attention with fascinating stories of people and events when we stop. We did not spend time underground but were told what was beneath what we were standing on.

Having been taken to the only thing that remains of the sumptuous palace of the Duke of Buckingham, the Water Gate, and having been shown how much land was reclaimed by the embankment of the Thames in Victorian times, we proceeded to promenade on top of two important public works that the embankment made possible: a sewer and an underground transit line. I was fascinated to find out that

the sewage is “pumped” downstream to a treatment plant to the east of London by the power of the tides. The sewer fills with water as the tide comes in and then empties into the treatment plant as the tide goes out. Could this be the first example of a zero-carbon emission solution for public works in London? Maybe we’ll find out on another walk.

The Victoria Embankment also provided the space for one of the shallowest tube lines in the capital: the District Line, which was constructed using the “cut and cover” method. A large trench was dug in the ground, and once all the equipment was installed, the “tunnel” was covered up. This method was replaced by boring equipment, which made it possible to construct much deeper lines.

We stood outside Churchill’s War Rooms, located in the basement of the Treasury building in Whitehall, and were told they were discovered—by accident and totally intact—only a couple of decades ago.

With London’s paving stones steeped in so much history, there is no shortage of these interesting walks, and we shall undoubtedly organize another next year.



*Photo taken on Horse Guards Parade with the Admiralty Building in the background.
Left to right: Peter Miles, David Gibby, Sue Henning, Gia Campari, Ken Lindup, Jacques Pezier, Anne Saunders,
Peter Weissbuhm, Charles Stancomb, Yvonne Lindup, Maurizio Petitbon, Gillian and Nick Collin.*

HISTORY CORNER

SRI “Internet Van” to Be on Display in Computer History Museum

By Don Nielson

The Computer History Museum in Mountain View, California, has the largest collection of computing-related artifacts in the world. Its curators are nearing completion of a lengthy timeline of computer history, with items representing milestones on display. SRI will have some presence in this timeline. One of our contributions will be Shakey, SRI’s early mobile robot. Another will be Doug Engelbart’s legacy of interactive computing. Yet another will be a scale model of a mobile laboratory built in part to test the early development of digital networking.

The van was a capital equipment purchase by the Telecommunications Sciences Center in the early 1970s. This “bread truck” housed the equipment that enabled the first mobile digital network, the Packet Radio Net, an ARPA-sponsored effort. That wireless network, along with the existing ARPANET and an emerging digital satellite network, formed the basis for the world’s first packet-based internetworking. Researchers in this flexible test bed vehicle helped measure some of the parameters needed in the design of the Packet Radio Net and, with the advent of the internetworking protocol, TCP, saw the first such transmissions in 1976 and 1977.

Through the genius of Don Cone, the van was outfitted with a shielded generator, flexible equipment racks, and air conditioning. It is tall enough for passengers to stand erect, and it ferried hundreds of visitors, including three-star generals, around the South Bay and other areas in the United States for demonstrations of digital networking.

But these research and comfort features made the van too large for the museum to place directly in its timeline. Four current SRI staff members built and delivered the exquisite scale model of the van pictured here. The equipment of interest faces us and consists of the rack of packet radio equipment on the left and, on the right, one of the first embodiments of Internet telephony, now called VOIP. Look closely and you will see a representation of the Mickey Mouse telephone used in the late 1970s as an illustration that any phone would work over this new packet-switched voice channel that was simply another service of this wonderfully flexible new world of a digital Internet.

The actual van has had the glory of public display. About a decade ago, organizers of a computer conference in San Jose and then the Computer Science Museum expressed interest in showing it. To comply, we had the SRI motor pool get it running, took it to the car wash, and drove it to San Jose. Later, SRI donated it to the museum, where, in December 2007, it was the centerpiece of a celebration of the 30th anniversary of the birth of internetworking. As they say, the rest is history—and in this case it truly is.



Scale model of the SRI van used in the early development of internetworking.

NEWS FROM SRI

Prototype Tactile Device for the Visually Impaired to Be Developed

Current tactile products for the visually impaired are expensive because of the complexity of their actuator technology. The National Science Foundation has awarded a grant to Zone24x7 and SRI to see whether SRI's electroactive polymer artificial muscle (EPAM™), which has unique vibrotactile properties, might be a lower-cost technology. The objective of the grant research is to determine the technical feasibility of incorporating EPAM into a low-cost mobile device that improves access to text documents, graphs, maps, and the Internet by producing high-definition tactile images for the visually impaired.

The prototype device will be a scaled-down version of the Optacon (**O**ptical **T**actical **C**onverter), an electromechanical device developed at SRI more than 40 years ago to enable the visually impaired to read printed materials that have not been transcribed into Braille. It uses a camera and a tactile screen to create vibratory images of print on a page that can be felt by fingertip.

Two Eminent Scientists Have Joined SRI's Center for Advanced Drug Research

H. Mario Geysen, Ph.D., and Joseph Perrone, Sc.D., recently joined SRI's Center for Advanced Drug Research (CADRE) in Shenandoah Valley, Virginia. CADRE's mission is to create new therapeutics, diagnostics, and vaccines for infectious and other diseases and for biodefense.

Dr. Geysen, Distinguished Scientist, will expand the center's research capabilities into such diseases as diabetes and osteoporosis. He will also set up programs to develop molecules to control hormonal regulation in metabolic diseases. Dr. Geysen is a pioneer in combinatorial chemistry, often characterized as the intersection of chemistry, robotics, instrumentation, computer science, and engineering. His contributions to developing innovative technologies have led to novel new therapies, several of which are currently under development. Before joining SRI, Dr. Geysen was the Alfred Burger Professor of Chemistry (now Emeritus) at the University of Virginia and before that Distinguished Scientist at GlaxoSmithKline.

Dr. Perrone will head CADRE's molecular diagnostic efforts, including its rare and neglected diseases program. An experienced marketing and business development executive, Dr. Perrone has guided a team to develop pioneering instrumentation and rapid diagnostic tests for

infectious and tropical diseases and opened new markets throughout Africa, Asia, Latin America, and Europe. Before joining SRI, he was president of JBP Consulting, Vice President of Strategic Initiatives and Business Development at the American Association for Clinical Chemistry, and Vice President of Standards, Certification, and Product Development at American Type Culture Collection. Dr. Perrone also held positions at the University of Maryland Biotechnology Institute and at Becton, Dickinson.

President and CEO Carlson Participated in Expert Panel on Global Innovation

On October 27, Curt Carlson participated in an expert panel discussion, The Next Generation of Innovation: Building Global Collaborative Entrepreneurial Networks, during the Security Innovation Network (SINET) Showcase in Washington, D.C. The topic covered the global innovation situation and competitive business environment. Dr. Carlson gave examples of SRI's approach to innovation and described successful collaborative approaches that produce customer value.

Department of Education Grant to Study and Strengthen Online Assessments of Students' Learning

The U.S. Department of Education has awarded SRI a 4-year, \$1.8 million grant to investigate and strengthen online assessments that can help teachers diagnose students' understanding of a subject. SRI is collaborating with researchers at the University of Illinois at Chicago and FACET Innovations in Seattle. In particular, the researchers will address the cognitive, instructional, and empirical validity of science assessments and collect new data from students in middle and high school science classes in Washington State.

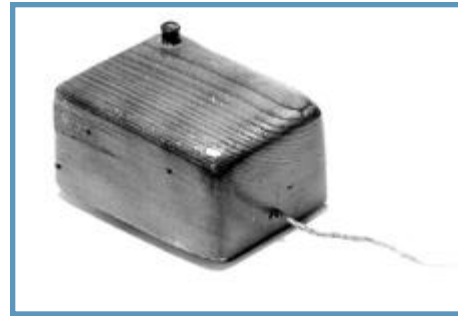
Diagnostic classroom assessments could give students and teachers information about whether students understand the concepts being taught and pinpoint any problems in understanding. This information would enable teachers to modify their instruction to improve students' understanding.

This project will be done in three phases: analysis of existing assessment tools (now on Diagnoser.com, developed by FACET Innovations), refinement and new assessment development, and collection of new data and evaluation of new and refined assessment items. The researchers will measure students' responses to the diagnostic assessments, perform classroom observations, and conduct interviews. Once the analyses are completed, the improved diagnostics for science assessments will be available online.

NEWS FROM SRI (Concluded)

Anniversary of the Patent for the First Computer Mouse

On November 17, 1970, SRI was awarded patent number 3,541,541 for "X-Y Position Indicator for a Display System," invented by Douglas Engelbart. Doug and his team at the Augmentation Research Center gave the device a catchier name, a mouse, because the cord looked like a mouse's tail. The mouse had made its public debut 2 years earlier at a historic multimedia demonstration of advanced technologies developed by Doug and his team. Patent in hand, SRI licensed the mouse technology to Apple, Xerox, and other companies, and now, 40 years later, the descendants of that original rodent are still busily scurrying across computer screens around the world. (See the April 2009 Alumni Newsletter for articles on the mouse and the multimedia demonstration.)



Two views of the original computer mouse



RECENT DEPARTURES OF LONGTIME STAFF

			Years of Service
August 2010	-	Philip Minor	32
September	-	Victor Frank	40
October	-	Carl Madson	26
	-	Isako Wasano	31
November	-	Christopher Becker	30
	-	Adam Cheyer	17



ALUMNI NEWS

Travel Article by Peter Miles

The University of the Third Age published an article Peter wrote about a pilgrimage to Mount Kailas in Tibet. He has given us permission to include it in the newsletter.

Trekking Towards Enlightenment

By Peter Miles

Mount Kailas in Western Tibet, revered by some 1.5 billion people as the Throne of the Gods and the Navel of the Earth, is a place of pilgrimage for Buddhists, Hindus, Bon, and Jains believers. It was this destination that prompted our group of 10 to set off with Qatar Airways via Doha to Kathmandu, Nepal, where we were confronted with a general strike by armed Maoist militants. After some negotiation, we proceeded with our planned visits to Pashupati and Swayambu and Kumari temples and the next day departed by air for Lhasa (elevation 3950 m), capital of Tibet, where we were each welcomed with a traditional Katak scarf on arrival.

The Potala Palace, with its 1000 rooms, and Norbulingka were the abodes of the Dalai Lama, and the Jokhang Temple remains Tibet's most sacred shrine. The Hospital of Tibetan Medicine is renowned for its expertise in natural and homeopathic medicine. An excursion to Sera Monastery allowed us to witness an open heated debate by its young monks, and travelling on we reached Gyantse, with its dominating Dzong (fortress), captured by the British Younghusband expedition in 1904, and its octagonal Kumbum Pagoda of 100,000 Deities, with two bewitching Buddha eyes to welcome us. In Shigatse, we admired the Tashilhunpo Monastery, traditional seat of the Panchen Lama. Unfortunately, the 6-year-old successor, Gedhun, approved by the Dalai Lama in 1995, has been kept in a Chinese prison ever since, the world's youngest political prisoner.



The bewitching eyes of Buddha on the Kumbum Pagoda in Gyantse

A long land cruiser journey of some 900 km along the Xinjiang Highway, across the scenic West Tibetan plateau, brought us to Lake Manasarovar, a holy relic of the Tethys

Sea, which 40 million years ago covered this region, before the emergence of the Himalayas. Hindus believe the lake was born from the mind of Brahma, and we watched an Indian saddhu (holy man) performing ritual ablation, which is believed to lead to incarnation as a god.

At nearby Tarboche (4750 m) we attended the annual full-moon Saga Dawa ceremony in May, the raising of the Great Prayer Flagpole, to commemorate the life of Buddha. Pilgrims in national costume, monks, and boisterous musicians made it a memorable festival day. We camped nearby, ready early next morning to commence the Kora, the 3-day circumambulation of Mount Kailas, a distance of 57 km. Yaks were used to carry our equipment and food supplies. We followed the Lha Chu valley, past the Tunnel of White and Black Lies, to Dirapuk Monastery. The next day, we climbed towards Dolma La (5630 m), which marks the physical and spiritual peak of the Kora. Pilgrims circle the holy site of Shiwa Tsal and deposit a personal offering. I left a lock of my daughter Bruna's hair, in a golden envelope, with an ardent prayer.



Yaks and their drivers preparing for the Kora

We descended past the Lake of Compassion, and after spending the night, with our tent surrounded by snow, we visited Zutul-Puk Monastery, with its meditation caves and Milarepa's image, and finally completed the Kora in Darchen (4560 m).

On our return journey, we made a detour to the Mount Everest base camp (5200 m) to pay homage to the memory of George Mallory (died 1924) and the successful British expedition of 1953. Then across the Friendship Bridge back to Kathmandu.

Was the pilgrimage for me an Enlightenment? In May, one year later, Bruna presented us with our first grandchild, Lucas!

ALUMNI NEWS (Concluded)

Donna Baranski-Walker Awarded Medal of Gratitude from the Polish Government

On August 31, 2010, former SRI staff member Donna Baranski-Walker was awarded the Medal of Gratitude by Polish Nobel Peace Prize winner Lech Walesa and Poland's President, Bronislaw Komorowski, in recognition of her vital support for the Solidarity Movement. The award was presented on the 30th anniversary of Solidarity's founding and in the place of its founding: Gdansk, the location of the former Lenin Shipyard.

Thirty years ago, as Solidarity Movement members were struggling to overthrow the communist government, Donna, herself of Polish extraction, decided to aid the cause from the United States. She had heard of the plight of Solidarity while studying for a year in Cracow. Using English to avoid incrimination and censorship, her professors were able to give her the true story of the arrests and treatment of the protesters—stories she verified out in the countryside.

But her interest in the cause turned to action during a lecture she attended at the University of Chicago on the impact that martial law was having on Solidarity supporters. As she told the *San Mateo County Times* recently, "You couldn't just have an economic discussion about those things; you had to do something."

Donna's "something" was to establish the organization Support of Solidarity-Chicago. This organization sent money, care packages, and communications equipment to the Solidarity underground. The communications equipment was particularly important—and personally risky for Donna—because communications had been shut down by martial law.

Donna is still committed to peaceful undertakings; after leaving SRI, she founded the Rebuilding Alliance. This nonprofit organization raises awareness about the destruction of Palestinian and Israeli homes in that ongoing struggle and seeks donations to help rebuild them. In this cause, she works extensively with groups in the region. One of these groups will soon build the first birthing center in the West Bank. More can be found about her current activities at www.rebuildingalliance.org.

Save the Date for the 2011 Spring Fling



For alumni who will be in the San Francisco Bay Area next spring, save May 12 for a trip to the Walt Disney Family Museum in the Presidio. SRI and Disney go way back—SRI consulted on the location of the original Disneyland in Anaheim. Mark this date on your 2011 calendar and watch for details in the April newsletter.

WELCOME

The SRI Alumni Association welcomes new members:

Guy Benveniste
(inadvertently omitted in August newsletter)

Robert Fridley
Kai-Hung Lau
Frances McCalop
David Middaugh

We look forward to your participation in the Alumni Association and hope to see you at our next group event.

DIRECTORY ADDENDUM

The enclosed directory addendum (covering the period August 1 to December 3, 2010) contains new members and corrections. Please add it to your 2010 Directory.



CREDIT UNION NEWS

Personalized Visa® Cards



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IN MEMORIAM

Margery “Marge” Conger

Former SRI staff member Marge Conger died July 14, 2010, in Burlingame, at age 93. She started her career at SRI in 1960 in the Human Resources Department and retired in 1983 from the Contracts Department. Marge was an avid golfer and a member of the Women’s Golf Club while at SRI. She was also a dedicated gardener, who kept her coworkers supplied with tomatoes and zucchini during the summers. Before joining SRI, Marge spent several years in the Marines.

Kenneth Gardiner*

Ken Gardiner, formerly a Senior Research Engineer in the Electronics Technology Lab, died October 22, 2010, at age 87. He was an SRI staff member from 1954 until he retired in 1987. Ken was also an avid photographer, specializing in nature. He accumulated many professional awards for his bird photographs.

Douglas Keough*

Former SRI staff member Doug Keough died September 7, 2010, in Jupiter, Florida, at age 81.

Doug began his career at SRI in 1956 and retired in 1994 as a Senior Research Physicist in the Shock Physics and Geophysics Lab. With a strong interest in electronics as well as physics, Doug provided instrumentation guidance for the Poulter Lab. In the 1970s and 1980s, Doug’s expertise in piezoresistive pressure transducers, complemented by the strong theoretical base at the Poulter Lab, was pivotal in obtaining numerous projects related to Cold War research. SRI’s research made major contributions to the accurate characterization of large-scale underground detonations—work that became critical in verifying compliance with nuclear test ban treaties.

Doug is survived by his wife, Marian; son Greg and his wife, Judith; and son Geoffrey.

Ian Napier*

Ian Napier, former Vice President of UK Consulting - Europe, died peacefully at home on September 17, 2010, at age 74.

Ian worked with SRI between 1972 and 1994. He joined the consulting group in the Croydon (London) office in the early 1970s. He was later transferred to Menlo Park,

where he joined the Metals and Minerals Group. After a few years in Menlo Park, he returned to Croydon, continuing his consulting work in business management and business development. In the mid-1980s, he was appointed head of the Croydon consulting practice. After he left SRI, he continued consulting for a number of companies, including doing extensive work for Indian clients. Ian was also a Visiting Professor at the Warwick University Business School. He is survived by two daughters.

Raymond A. Nelson*

Ray Nelson, formerly a Senior Research Physicist in the Geoscience and Engineering Center, died June 1, 2010, in his home after a long battle with cancer. He was 84 years old.

Ray spent 42 years at SRI, beginning his career here in 1955. He worked primarily on classified projects for the institute. After he retired, he continued to pursue his interests in organic gardening, folk dancing, cycling, singing in his church choir, and volunteering for the community of Pescadero, California, where he lived with his wife, Kay.

Harrison “Buzz” Price*

Buzz Price, an internationally known research economist and an employee of SRI from 1951 to 1956, died August 15, 2010, in Pomona, California, at age 89.

Buzz earned a BS degree in Mechanical Engineering from Cal Tech in 1942 and worked for several years as a sales engineer before returning to school at Stanford and earning an MBA in 1951, when he joined SRI. In 1953, Buzz was chosen to determine the economic feasibility of and best location for Disneyland, Walt Disney’s first theme park. A 160-acre orange grove in Anaheim, California, was chosen on the basis of Buzz’s analysis, and the park opened on July 17, 1955. Impressed with Buzz’s talent, Walt Disney encouraged him to form his own company, through which Buzz went on to conduct more than 150 studies for The Walt Disney Company, including work on Walt Disney World and EPCOT Center in Florida and on Tokyo Disneyland. Buzz’s autobiography, *Walt’s Revolution! By the Numbers*, focusing on his Disney work, is available through Amazon.com. At Walt Disney’s request, he also performed the initial feasibility study for what became the California Institute of the Arts (CalArts), dedicated to training students in the visual and performing arts. Buzz continued to be one of CalArts’ biggest supporters after its establishment in 1961. Work for other clients over the years included studies

IN MEMORIAM (Continued)

and planning for eight world fairs, Six Flags and Sea World parks, and winter resorts.



Buzz Price (right) looks over plans for Disneyland with Walt Disney (left) and C.V. Wood, Jr., the park's chief developer.

Buzz's many honors included an honorary Doctor of Arts degree from CalArts; the first Lifetime Achievement Award from the Themed Entertainment Association (TEA); induction into the Hall of Fame for the International Association of Amusement Parks and Attractions (IAAPA); and recognition as a Disney Legend, an award designed to honor those whose imagination, talents, and dreams have created the Disney magic. On July 16, only a month before his death, he was a featured speaker in San Francisco at the Walt Disney Family Museum's celebration of Disneyland's 55th anniversary, where he entertained the attendees with his stories and keen sense of humor.

Buzz is survived by his wife, Anne; sons Bret and David; daughters Holly and Dana; nine grandchildren and two great-grandchildren; and sister Patricia.

Fred M. Sauer*

Fred Sauer, a physicist at SRI from 1954 to 1969, died June 1, 2010, in Grants Pass, Oregon, at age 87.

Although his training was in mechanical engineering, Fred's research came to focus on the physical effects of nuclear explosions, beginning in 1951 with work for the U.S. Forest Service to calculate the effects of such explosions in forested

areas. His calculations of tree blowdown resulting from nuclear air blasts were verified by nuclear experiments and became a standard for the Defense Department. At SRI, and later for other research firms, he studied nuclear ground shock and cratering, using simulated nuclear explosions produced by specially designed high-explosive charges. After entering semi-retirement in 1989, Fred wrote a history of nuclear air blast theory and experimentation for the Defense Special Weapons Agency. In July 1998, Fred received a Lifetime Achievement Award from the agency.

In retirement, Fred and his wife, Claire, moved to Grants Pass, but they maintained their Bay Area ties by endowing a chair in environmental engineering at UC Berkeley.

Nancy Elizabeth Stewart



Former SRI staff member Nancy Stewart died unexpectedly on Friday, August 13, 2010, after a heart arrhythmia episode. She was 51 years old.

Born in San Francisco on June 1, 1959, Nancy moved to Atherton in 1965 and later graduated from Castilleja School in Palo Alto and the University of Southern California.

During her tenure at SRI in 1992-1993, Nancy was International Conference Coordinator for the International Associates Program in the Business and Policy Group. After leaving SRI, she worked as a manager of executive conferences for Semiconductor Equipment and Materials (SEMI). In 2006, Nancy became event and volunteer manager at the Children's Health Council, where her primary responsibility was to manage all aspects of the organization's Summer Symphony.

Nancy was widely admired for her cooking and photography skills, as well as for her generous and thoughtful nature. In her final act of extreme generosity, she served as an organ donor. She is survived by her father, Robert Stewart; sister Ellen Stewart Moore and brother-in-law Warren Moore; and nieces Hathaway and Katherine Moore.

IN MEMORIAM (Concluded)

Robert D. "Rusty" Williams



Former SRI staff member Rusty Williams died peacefully at home in Princeton, New Jersey, on October 6, 2010, at age 85.

Most of Rusty's career was devoted to work related to electrical engineering for the defense and intelligence industries. In addition to SRI, he worked for Raytheon, Grainger Associates, and Lockheed. Among his major projects were the Polaris missile and ABM defense systems. He also taught Management at the Naval War College in Newport, Rhode Island, and was Special Assistant to the Director of Intelligence during the Carter administration.

After he retired, Rusty and his family lived in northern Alsace, France, where he conducted classes on English conversation. After moving to Princeton, he continued mentoring foreign graduate and postgraduate students through the Individual English Conversation Program at Princeton University's Davis International Center.

Rusty is survived by his wife, Barbara Highton Williams; daughters Deborah Lescroart, Tamara Gravelle, Andrea Clarke, Sarah Williams, and Jessica Rachel Williams; and six grandchildren.

Russell Wolfram



Russ Wolfram, an SRI staff member from 1955 to 1991, died September 16, 2010, in Los Altos, after a battle with pneumonia. He was 83 years old.

As a Senior Research Engineer in the Information and Telecommunications Sciences Center, Russ designed and built numerous electronic circuits for such systems as a meteor burst communication system, signal detection hardware for the 1962 Fishbowl nuclear tests, the Space Shuttle, automatic modems for deaf communications, handheld deaf terminals, and innovative packet radio systems.

Outside of work, Russ was an accomplished violinist, having played for the San Jose Symphony at age 16 and serving as concertmaster of Santa Clara Valley's Nova Vista Symphony. His historical interests included a love of steam trains and membership in the California Pioneers of Santa Clara County.

Russ is survived by his wife of 59 years, Janette; children Elizabeth Hambright of Vacaville, John Wolfram of San Jose, and Margaret Smart of Gilroy; nine grandchildren and two great-grandchildren; and his brother, Ted Wolfram of Susanville.

*Member of the SRI Alumni Association

We're saddened to learn of the deaths of two alumni members, Frank Pyne on July 25, 2010, and Walter Chesnut on October 8, 2010. Their obituaries will appear in a future newsletter.

Rita Petričeks

We're sorry to hear of the passing of Rita Petričeks, the wife of former SRI staff member Juris Petričeks. Rita died July 24, 2010, in Aluksne, Latvia. Juris studied atmospheric physics in the Radio Physics Lab at SRI from 1964 until his retirement in 1997. He came to the United States in 1950, after fleeing



his native Latvia to escape the Soviet reoccupation after World War II. Juris and Rita helped support the Museum of the Occupation of Latvia which was established in 1993 in Riga; and in 2008, they moved to Sigulda, Latvia, where a service in remembrance of Rita's life was held in October.

The SRI Alumni Newsletter is published three times a year (in April, August, and December) by the SRI Alumni Association, 333 Ravenswood Avenue, Room AC-108, Menlo Park, CA 94025.

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