



**Summer 2013**

**Volume 3**

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## **EX-Ls EXPRESS – Summer 2013**

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Editor: Louise Vogelsberg

**Deadline for Newsletter submittals is 7 days after the Board meeting.**

### **EX-Ls BOARD OF DIRECTORS**

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Editor EX-Ls EXPRESS:	Louise Vogelsberg
Webmaster – <a href="http://www.lbl.gov/EX-Ls">www.lbl.gov/EX-Ls</a>	Richard Baker

### **PAST PRESIDENTS**

Rollie Otto – 2011	Ken Mirk – 1999
Richard Sextro – 2010	Paul Hernandez – 1998
Don Grether – 2009	Clay Sealy – 1996-1998
Jose Alonso – 2008	Igor Blake – 1994-1996
Janis Dairiki – 2007	Conway Peterson – 1992-1994
John Kadyk – 2006	Howard Browne – 1990-1992
Gene Binnall – 2005	Ethel Skyrdlinski - 1989
Sig Rogers – 2004	Al Amon - 1988
Bob Fulton – 2003	Ken Lou – 1987
Bob Birge – 2002	Virginia Cherniak - 1986
Per Dahl - 2001	Bill Bigelow - 1985
Tom Beales – 2000	Ted Bowers – 1981-1984

### **WELCOME NEW MEMBERS THIS QUARTER**

Tony Linnard  
Martin Pollard  
Nancy Brown  
Phil Phythian

### **EX-Ls Honorary Life Members**

Shirley Ashley	Inge Henle
Esther Colwell	Bud Larsh

### **2013 CALENDAR OF BOARD MEETINGS & LUNCHEONS**

<b><u>Board:</u></b>	<b><u>Luncheons:</u></b>
April 11	May 16
July 11	August 15
October 10	November 21

Board Meetings start at **3:00 p.m.** on the dates listed above, usually in 54-130B (that's in the conference room addition to Perseverance Hall at the Cafeteria) at the Lab, but subject to change at the last minute, so check with a Board member if you plan on attending. We welcome attendance by interested members.

### **OFFICE ADDRESS:**

**Our mailing address is:**

LBNL EX-Ls  
1925 Walnut Street #1550  
Berkeley, CA 94720

**Photo Site:** <http://picasaweb.google.com/exLpics>

**Photo Czar:** Ned Dairiki

**Website:** [www.lbl.gov/EX-Ls](http://www.lbl.gov/EX-Ls)

**Webmaster:** Richard Baker ([xrobaker@comcast.net](mailto:xrobaker@comcast.net))

### **MEMBERS DECEASED IN 2013**

Dick A. Mack

This has been a relatively quiet summer in terms of critical EX-Ls issues. I have taken advantage of the lull by being absent from the most recent Board meeting. However, Trudy Forte and colleagues did a professional job of steering the ship in my absence.

An important event that is explained elsewhere in the newsletter is the change in venue and cost for the quarterly luncheons. This has been discussed previously and it was determined that it is time to reevaluate our commitment to Spenger's as one of our choices. The proposal to drop Spenger's and move to the Berkeley Yacht Club will help guarantee a good experience at a competitive cost going forward. I hope that our membership agrees. In my opinion (shared by others) the caterer that Vicky has hired for the occasion does an outstanding job.

Also at the recent meeting, the Board voted to allocate our annual charitable donation of \$1000 to the Community Resources for Science (CRS). This is a local organization that does a very cost-effective job of fostering science education in surrounding communities. We contributed a similar amount last year. Janis Dairiki has done a good job of reviewing the activities of this charity and points out that last year there was a 20% growth in the number of teachers, students, and scientists engaged in the outreach effort. It is felt that this particular charity is a fitting recipient of the EX-Ls charity in that it is focused on the science education of local youths. Those interested in learning more about CRS can visit their website: <http://www.crscience.org/>. There you will learn that the EX-Ls join an impressive list of local contributors who also help to support this organization.

Janis is also our representative to the Council of UC Retiree Associations (CUCRA). As I have pointed out in a previous message, our participation in CUCRA is an important activity that enables us to learn about the experiences of our peers in retirement throughout the entire UC system and remain aware of important issues that may impact EX-Ls members. In her report to the Board, Janis pointed out that one of the topics discussed by the incoming president of the organization was the encouragement of increased participation from retirees of the three UC affiliated national labs. We will keep our membership informed of developments in this area.

There has also been a follow-up to the changes in retirement procedures at the Lab that were discussed previously. Armando Viramontes, Lab liaison person to the EX-Ls, reported that the Lab has agreed to include a letter of introduction from the EX-Ls president to be included in the exit packet provided to new retirees. This will be a key part of our efforts to continue to recruit

new members to our organization as they enter into retirement. It has been pointed out by Patti Powers-Risius, our membership chair, that this year's membership is lower than previous years. Part of this, we hope, is due to a slow response in dues payment from our previous membership which should be corrected by reminders from Patti and others. At the same time, we encourage our active members to contact friends, particularly recent retirees, whom you feel might benefit from learning more about EX-Ls membership.

I also remind our membership that this is the time of year when we actively recruit candidates for office and participation in committees. A committee chaired by Connie Grondona will be responsible for forming the new slate of candidates - particularly the choice of the next 2nd vice-president. EX-Ls members are encouraged to suggest possible candidates, including themselves. As always, I exhort the membership to appreciate the fact that we are all volunteers and that the organization requires the next generation of officers and potential committee members to step forward.

Finally, I have a personal message to share. Fred Goulding, whom many of us knew, passed away on July 2. I was privileged to have been able to work closely with him over most of my career. Many EX-Ls also either worked with him or knew of him through his extensive contributions to the Lab. A tribute to his memory is included elsewhere in the newsletter.



#### **EX-LS MEMBERSHIP DUES REMINDER**

If you are an EX-Ls member who keeps forgetting to send in the EX-Ls annual \$15 membership dues, *the extended deadline is August 30. If the dues are not received by then, your name will be dropped from the membership roster.* In addition to the opportunity to socialize amongst friends at the quarterly luncheons and various activities, the EX-Ls endeavor to keep retirees linked to the Lab by informing us of upcoming events. All LBNL retirees are also eligible for UCB Retirement Center (UCBRC) programs.

The \$15 dues can be mailed to:

**LBNL, EX-Ls  
1925 Walnut St. #1550  
Berkeley, CA 94720-1550**

If you have any questions, please call Patti Powers-Risius at 510-525-9045 or email [pattijac@icloud.com](mailto:pattijac@icloud.com).

## **REMEMBRANCE OF FRED GOULDING, 1925 - 2013**

Fred Goulding, Emeritus Distinguished Staff Senior Scientist, passed away on July 2, 2013. He was 88 years old. He was a staff member at the Lab from the early 1960's until his retirement in 1991.

Fred, a native of England, began his electronics career as a young graduate working on radar during World War II. He later moved to Canada where he was involved in the development of nuclear instrumentation for the Chalk River Laboratories, a Canadian nuclear research facility. While at Chalk River, where he eventually became head of the electronics group, Fred developed the expertise in nuclear particle detection which was to become a unifying theme of his long and distinguished career. In the early 1960's, Fred was recruited to the Laboratory and joined the staff of what was then the Nuclear Chemistry Division as a group leader for electronic instrumentation.

This was a particularly dynamic period in Laboratory history. The 88-Inch Cyclotron had recently been commissioned, the search for transuranic elements was actively being pursued at the HILAC, and the Bevatron was at the peak of its productivity as a premier facility for elementary particle physics. Fred's familiarity with electronics for experimental physics was a particularly welcome addition to the Laboratory.

This was also a time when semiconductor devices were first being introduced into the world of experimental physics. Fred's demonstrated experience in electronic circuit design using discrete transistors was rapidly exploited with his development of state-of-the-art pulse processing systems for nuclear measurements. Semiconductor diodes for nuclear particle detection were also under active investigation at a number of institutions. Fred was quick to contribute his talents to emerging detector research projects within the Lab. Success in the design and fabrication of silicon diodes was quickly achieved. These became critically important tools for the study of nuclear reactions at Laboratory accelerators. Subsequent developments in the fabrication of lithium drifted germanium detectors revolutionized gamma-ray spectroscopy. Also significant was the design of low-noise preamps and pulse shaping networks needed to exploit the unique features of semiconductor diode detectors. As a consequence of the contributions by Fred and his colleagues, the Lawrence Radiation Laboratory quickly became recognized as one of the world leaders in the exploitation of these new technologies and Fred's international reputation emerged.

Fred's importance to the Lab was also highlighted by the contributions he made through direct support of nuclear physics research staff. Custom radiation detection and pulse processing systems designed by Fred and his

colleagues enabled sophisticated experiments unique to the Lab. Goulding-designed electronic modules were a common sight in the experimental counting areas throughout the Lab. Fred was frequently cited by Laboratory research staff as a major contributor to the success of a variety of research projects.

Over the next several decades, Fred continued in his leadership role in the area of nuclear instrumentation and measurement science. He was quick to recognize emerging areas of science and technology likely to be important to experimental science. Under his guidance, the Laboratory developed a strong program in Ge materials and detector technology culminating in the development of large-volume, high-purity Ge gamma-ray detectors. These have become the standard in the industry with application in fields as diverse as medical imaging, gamma-ray astronomy and homeland security. Silicon x-ray detectors, whose development was likewise facilitated through Fred's efforts, are also widely used in analytical x-ray spectroscopy for environmental monitoring and other applications.

As Fred's career success continued, his role expanded to that of Department Head for Measurement Science within the Engineering Division. The title was chosen by Fred to reflect his conviction that much of the science involved in experimental physics lay in the development of sophisticated tools with which to perform the measurements. In addition to his continuing interest in detector technology, Fred's responsibilities included oversight of larger groups involved in instrumentation for initiatives such as the early Time Projection Chamber and Keck Telescope among others. Given his depth of knowledge of physics and engineering concepts, Fred was able to understand the fundamental issues involved at a depth exceeding that of typical managers. He was also instrumental in supporting the introduction of modern computer technology and integrated circuit design into the portfolio of techniques available to Lab researchers.

In spite of Fred's long and productive research career, his most enduring legacy might well be the generations of young scientists, engineers and technical staff whom he mentored and inspired. Fred was a leader who was quick to share his ideas with others and was committed to the success of those who worked with him. As most good scientists, he was able to communicate his insights to a diverse audience. His creative approach to problem solving served as a model for others to emulate. Many of his proteges remained in the Laboratory for the duration of their careers, others moved on to success in academia, industry and other national labs. All carry with them a strong sense of respect and gratitude for Fred's contribution to their careers. (continued on Page 5)

## REMEMBRANCE (continued)

In a Lab where the expectation for excellence remains high, Fred still stands out among most of his peers as a unique individual who contributed to the success of the Lab in ways too numerous to chronicle. He contributed technically to a diverse range of programs that covered most aspects of the Lab's mission. He won the respect of a diverse group of collaborators with whom he worked and the gratitude of the dozens of colleagues whose careers he enhanced. His achievements were recognized across the international scientific community. He was one of a handful of researchers who has been honored by the Lab with the classification of Distinguished Staff Senior Scientist.

Fred retired from the Lab in 1991. However he remained active in research for many years afterward enjoying his new freedom from responsibility to pursue his own research interests. He is survived by his wife Eve and son, Derek.

Joseph Jaklevic



## PRICE INCREASE AND CHANGE IN LUNCHEON VENUE

Since the beginning of 2007 EX-Ls members have paid \$25 per person to attend our luncheons. For the past year we have been losing money relative to previous years. This is due to the increase in rental and food costs for both Spenger's and the Berkeley Yacht Club (BYC). For a limited time, the EX-Ls Board of Directors voted to cover the shortfalls by drawing against the EX-Ls general fund. However, we have been losing money at a rate that is adversely impacting these funds. Every effort has been made to maintain the lowest possible cost at these events and/or find other locations that would allow us to keep the cost at \$25. Unfortunately, other facilities located within a reasonable proximity to the Lab and Berkeley and can accommodate 80 guests charged higher rates than what we currently pay. Therefore, the Board has voted to increase the luncheon rate to \$30/person beginning with the August luncheon.

Many members have expressed their displeasure with the food quality, quantity, service and general costs at Spenger's. Vicky Jared has met several times with the Spenger's General Manager and Banquet Manager to correct these issues, but to no avail. At the last luncheon even coffee and tea were not served. Therefore, the Board has decided to cancel this upcoming luncheon at Spenger's and meet at the BYC. The BYC offers a more relaxed atmosphere to visit with friends and co-workers, free parking and well prepared food. We have plenty

of volunteers who can assist those who have difficulty with the buffet service. We will keep searching for a possible alternate location (e.g. Hs Lordships) and we are open to your suggestions regarding other alternatives. For now, the next two luncheons will be at the BYC.

We hope you will continue to come to these luncheons and still consider them an entertainment bargain. Thank you.



## LUNCHEON SPEAKER AUGUST 15, 2013

**Speaker: Dr. Tamas Torok**

**Title: Beauty and the Beast**

Tamas Torok, a microbiologist with Berkeley Lab will talk about his journey, *i.e.*, about serendipity in science, microbial diversity, probiotics and bioweapons. Microbes are his specialty, be it microbes from the deep frigid waters of Lake Baikal in Siberia or microbes deep in our gut. He has an intimate knowledge of microbes such as ancient ones found in amber and more recent ones able to survive high radiation from the Chernobyl Exclusion Zone that he will share with us. Some microbes are beauties and some (think bioweapons) are beasts.

Tamas Torok is a Staff Scientist in the Earth Sciences Division, Ecology Department. He has been a microbiologist for 42 years, half of that time with LBNL. The past 17 years he has been involved with DOE's non-proliferation program that seeks to engage former weapon scientists. The program, which he now manages for Berkeley Lab, besides the bench work, has opened avenues that he never dreamed of. He plans to talk about the various joint research projects he has been involved in within the US and beyond.

Tamas received his bachelor's and master's degree in food sciences from Humboldt University, Berlin, Germany and his Ph.D. degree in microbiology from the University of Szeged, Hungary. He has numerous papers in the field of biodiversity of microorganisms and is recognized internationally for his contributions to the field.

## **RETIREMENT CENTER UPDATE**

We hope your summer has been a fun, relaxing and renewing time. As you will read below, the Retirement Center's programming for the fall will be especially interesting to Lab retirees. We hope you will join us as we endeavor to offer Lab retirees programming to support your curiosity, wellbeing and creativity and support your connection to the campus.

### **Upcoming Learning In Retirement Series – Watch Fall Center Newsletter for More Details**

#### **Future of the California Forests**

Keith Gilles, PhD, Dean of the College of Natural Resources and Professor in the Department of Environmental Science, Policy and Management and Agriculture and Resource Management will speak. The two-hour session in September will be held at the UC Berkeley Botanical Garden. Dr. Gilles is also the Chair of the California Board of Forestry and Fire Protection.

#### **Bringing Science to the Global Energy Problem: LBNL Research for a Clean, Carbon-Neutral Energy Future**

See next page for full coverage of this series of lectures.

### **An H<sub>2</sub>O Picnic**

The Center held its annual retiree picnic in Tilden Park on June 25. The normal summer, dry weather was not to be. In the midst of continuous rain and wind, 60 hearty retirees, including a contingent of Lab retirees, braved the elements for what turned out to be a fun time with good food and great company. Lab retirees were particularly helpful this day as they pitched in with the setup of several tents, applied the highest scientific principles to gently drain collecting water on tent tops, and stayed to help with the clean-up. Thank you Lab retirees!

### **New UCB Chancellor Dirks Inauguration**

On November 8 at 3:00 p.m. in Zellerbach, Chancellor Nicholas Dirks will be inaugurated. Retirees are welcome to attend this event. When arrangements are finalized, the Center will inform all retirees so they have the opportunity to participate in the event.

### **Passion and Purpose: Transforming Retirement 2**

Some of you remember the excellent full day retiree conference held in May 2012. Robert Reich was the

keynoter. A Center planning committee has begun work on the next conference, scheduled for May 2014. The month of May is chosen for this major event as it is Older Americans Month in the US. The month is a time to recognize the contributions and achievements of older Americans. If there are topics you want on the conference agenda, please send your ideas to me at [pcullinane@berkeley.edu](mailto:pcullinane@berkeley.edu).

### **Fidelity's New Guidance Consultant Service**

In addition to Fidelity drop in sessions at the Center and Quarterly Market Update sessions, check out Fidelity's new Guidance Consultants service. Consultants can meet with you at your convenience - either over the phone or in person. Confidential meetings at the Center are also arranged. To schedule a one-on-one consultation, call 1-800-558-9182 or go online to <http://ucfocusonyourfuture.com>.

### **Fall Open Enrollment**

The Center has heard that an open enrollment session will be held on campus on Nov. 13. More detail is not available at this time. However, there may be significant changes in benefits announced. The Center is advocating for a separate open enrollment session for retirees. The fall newsletter and/or Center email alerts will provide more information as it is known.

### **Email Addresses**

If the Center has your email address, then we can be sure you are included in email alerts about developments, like open enrollment, that impact the lives of retirees. You can share your email address with the Center by calling 510-642-5461 or writing to [ucbrc@berkeley.edu](mailto:ucbrc@berkeley.edu).

### **Retiree ID Card**

Your retiree ID card gives you access to many campus discounts, use of the campus libraries and other services. The card is free. If you do not have one, call or email the Center or drop by the office between 1 and 4pm any workday.

You are always welcome in our offices. We are conveniently located at 1925 Walnut St. in Berkeley.

Be well!

Patrick Cullinane, Director  
UCB Retirement Center

## **Bringing Science to the Global Energy**

### **Problem: LBNL Research for a Clean, Carbon-Neutral Energy Future**

Berkeley Lab's Carbon Cycle 2.0 Initiative will be featured in a series of lectures hosted by the UC Berkeley Retirement Center as part of its Learning in Retirement series. Carbon Cycle 2.0 is a Berkeley Lab effort to stimulate innovative, cross-disciplinary research to accelerate the development of a carbon-neutral global energy system.

The weekly series begins on October 8, 2013 with a lecture by Berkeley Lab Director Paul Alivisatos who will describe this initiative as well as discuss other lab research programs and plans. On October 15, Frances Houle, Department Head at the Joint Center for Artificial Photosynthesis and Blake Simmons, Vice President of the Deconstruction Division of the Joint BioEnergy Institute will discuss next-generation renewable fuels. On October 22, Nan Zhou, Deputy Group Leader of the China Energy Group and Mary Ann Piette, Building Technology and Urban Systems Department Head will discuss emerging trends in energy efficiency research both domestically and in China. The series will conclude on October 29 with a discussion on bringing energy and other life-improving technologies to emerging economies by Ashok Gadgil, Environmental Energy Technologies Division Director and Shashi Buluswar, Executive Director of the LBNL Institute for Globally Transformative Technologies.

More details, including sign-up information, will be available in the Fall 2013 *CenterPiece*, the Retirement Center Newsletter.

## **UCBRC ANNUAL RETIREE PICNIC**

On June 25, the UCB Retirement Center held its third annual Retiree Picnic. Fighting rain and fog, 60 retirees, including many EX-Ls members, made their way to the Padre Picnic site in Tilden Park to enjoy good food and great company.

The weather made for a cozy event, with attendees huddling together under pop-up tents and warming their hands over the BBQ. Retirees provided delicious desserts and appetizers (my favorite were the jalapeno poppers – just the thing for a cold, blustery afternoon!), and shared a sense of camaraderie and determination.

Thank you all for braving the elements and joining us for a soggy and fun afternoon. We promise to do our best to pick a sunny day next year!

Summer Scanlan  
Project Manager  
UC Berkeley Retirement Center



## SUMMARY OF TALK MAY 16, 2013 LUNCHEON

**Speaker:** Dr. Anthony D.A. Hansen,  
Magee Scientific Corporation

**Title:** Combining Science With Adventure:  
Chasing Air Pollution to the Ends of the  
Earth

Dr. Tony Hansen is a former Laboratory staff member who combines an interest in the science of air pollution with an instinct for entrepreneurship in a manner that is spectacularly successful in both arenas. He describes himself as a scientist with a variety of interests and experiences that overlap areas of scientific research, gadgetry and instrumentation, business entrepreneurship, and an attraction to discomfort. His recent presentation certainly did not disappoint in that he touched on all of the above.

The unifying theme of Tony's career is an interest in the study of atmospheric carbon. More specifically, that emitted from combustion sources in the form of black soot particles. This component of the atmospheric aerosol is emitted by a variety of major sources including power plants, automobiles and trucks, aircraft, and diesel engines of every sort. Although less publicized than the carbon dioxide emissions emphasized in most global warming discussions, black soot nevertheless might account for as much as a 40% of global warming. Tony's impact on the field of carbon research derives both from his direct research activities as well as from his invention and marketing of instruments with which to monitor black carbon.

The effects of black carbon particles as chronicled by Tony are several:

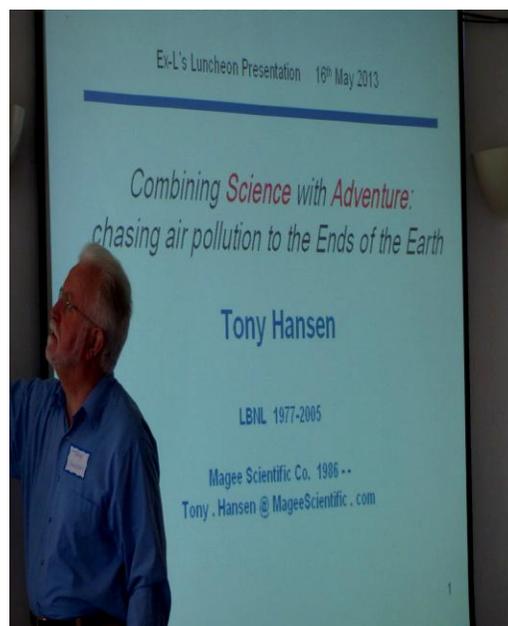
- Public health - disease and death
- Climate change - local, regional, and global
- Precipitation - reduction of rainfall
- Visibility - also reduction of sunlight for agriculture
- Damage to cultural heritage (buildings, monuments, art)

These were each elaborated upon in the bulk of the talk and illustrated with appropriate slides and graphs.

The technical content of Tony's talk was interspersed with an equal volume of interesting and amusing comments on the state of the world

together with interesting travel notes on the diverse locations where he has worked and installed his instruments. Particularly interesting was the first hand travelogue in which he could chronicle the worldwide extent of carbon pollution and contrast the level of carbon pollution among various countries. Finally, he spent a considerable amount of time describing his experiences as a frequent flier to the South Pole where he has been monitoring carbon levels for dozens of years. It was interesting to share his experiences in the forbidding environment of this remote setting.

Tony's talk was a refreshing mixture of science, human interest stories, and timely jokes that blended together to make a most interesting experience for the audience. Those of us who know him from his years with the Lab were not disappointed in his performance.



## **FIELD TRIPS SCHEDULED FOR AUGUST, SEPTEMBER AND OCTOBER**

### **ROSIE THE RIVETER WORLD WAR II / HOME FRONT NAT'L HISTORICAL PARK**

EX-Ls members are invited to tour both the Home Front National Historical Park (Rosie the Riveter) and the Red Oak Victory Ship in Richmond. The following is a brief description of what you will experience.

Explore and honor the efforts and sacrifices of American civilians on the World War II home front. Find out how they lived, worked and got along in Richmond, CA. Many faces, many stories, many truths weave a complex tapestry of myths and realities from this time of opportunity and loss. As the "Greatest Generation" starts to pass into history, a younger generation has rediscovered and has now begun to celebrate the accomplishments of their parents and grandparents in building Roosevelt's "Arsenal of Democracy" that provided the ships, planes and guns to win the war. Come tour the museum (see the many Rosie the Riveter posters), four films are shown about the war, how the shipyards were started, recruitment of 10,000 workers from all across the nation, and the women who worked the three shifts per day to build and launch a ship every three days.

### **VISIT THE RED OAK VICTORY SHIP**

Launched on November 9, 1944 as the SS Red Oak Victory, and commissioned as the USS Red Oak Victory (AK235) in December, 1944, the Red Oak Victory is the only vessel built by the Kaiser Shipyards in Richmond, CA that is being restored. The ship saw service in World War II, Korea and Vietnam and has the distinction of being the only ship operated by both military and civilian personnel during her career. The ship has a steep gangplank, and is not fully accessible. A Passport Stamp Station is on the Ship. The ship is located at 1337 Canal Blvd., Berth 6A not far from the Rosie the Riveter Museum.

**Date: Thursday, August 8, 2013**  
**(Sign-Up Form and directions via email)**

- Options:**
- 1) Tour Red Oak Victory Ship – 10:00AM (for the hearty)
  - 2) Tour Rosie the Riveter Museum – 1:00PM (easy access, good for all)
  - 3) Tour the Ship, break for lunch and tour the museum - 10:00AM to 3:00PM.

### **DI ROSA ESTATE AND GALLERY TOUR**

The Di Rosa is located in the Carneros Region of the Napa Valley. The Gatehouse Gallery features rotating exhibits and selections from the permanent Di Rosa collection. The Main Gallery which is the heart of the Di Rosa collection includes modern and contemporary paintings, drawings, sculpture, and photographs by well known Bay Area artists. The landscaped grounds and open space offer the visitor refuge to view a broad range of the art of Northern California in a singularly unique setting. The Napa County landmark and once the home of Rene and Veronica Di Rosa, located in a 125-year-old winery-turned residence houses hundreds of works of art.

**Date: Thursday, September 5, 2013,**  
**10:00AM–12:00PM**  
**(Sign-Up Form via email)**

### **LAWRENCE LIVERMORE NATIONAL LABORATORY**

Tours of the Main Site offer visitors a view into some of our exciting state-of-the-art research programs and facilities. Tour stops may include: National Ignition Facility, the world's largest and most energetic laser; the National Atmospheric Release Advisory Center, and the Center for Accelerator Mass Spectrometry. Main Site tours start and conclude at the Laboratory's Discovery Center off Greenville Road in Livermore and involve extensive walking and standing. Tours are conducted on Tuesdays at 8:30 a.m. and last 3–1/2 hours. Tour participants must be at least 18 years of age. The maximum number of visitors per tour is 14.

**Date: October, 2013**  
**8:30AM–12:00PM**  
**Need to confirm date with LLNL**

## A BLAST FROM THE PAST

### EX-LS RECENT TOUR TO THE BLACKHAWK AUTO MUSEUM

On Thursday, June 27, an adventurous EX-Ls group who had signed up for a docent tour of the Blackhawk Automotive Museum in Danville, gathered at Blackhawk Plaza where the museum is located. For 25 years the elegance of the museum building has served to heighten the artistic presentation of the historically significant and extraordinary classic and collector cars ever created contained within its walls.

Blackhawk is one of the premier accessible collections in the world as many collections are private. It is also affiliated with the Smithsonian Institute and has shared many programs and exhibitions with the Institute over the years. It's sort of a 'lil Smithsonian here in our proverbial backyard.

With everyone assembled and eager to begin, we met our docent guide George Beck (retired LLNL engineer) in the lobby where he gave a brief talk about the museum and what we would be experiencing once we entered the darkened cavern beyond him. As we entered the museum with George, who spoke with such reverence and fondness about the vehicles, we were virtually transported back in time to witness automotive history with technical and design solutions to the ever-challenging obstacle of creating beauty with performance.

In the one of a kind category was a 1963 Ford Thunderbird "Italian" concept car. This sleek, red beauty was designed and built by an outsourcing contractor and featured design cues that were nonexistent in the US during its time of production. Most Ford concept cars were sent to the crusher after their world tours but this one was rescued by actor Dale Robertson and four decades later, January 2006, it was sold and restored to its original specifications and then resold to the museum where it greeted us as we entered the gallery on the first floor.

Another one of a kind auto was the 1926 45hp Barker bodied Daimler all weather tourer paneled out of nickel and equipped with boa constrictor-shaped horns where the snake's tongue projects when the horn blows. Originally commissioned for the 23-year-old Maharajah of Rewa, it was used for

tiger hunting and it was reputedly carried out of the Indian jungle on 4 elephants after its discovery in the 1970s and had only covered 3,900 miles when discovered. George, using his laser pointer, directed our attention to the only dent on an auto in the entire museum!

On the second floor lobby was a replica of an 1886 Benz Patent Motorwagen, widely regarded as the first self-propelled vehicle, which reportedly was financed by his wife, Bertha, but patented to Karl Benz, as women were not allowed to hold patents in those days. Bertha, two years later, decided to publicize the Motorwagen by driving it with her two sons from Mannheim, Germany to her maternal hometown of Pforzheim and back for a total of 121 miles to demonstrate its feasibility as a means to travel long distances and thus making the journey the first long-distance automobile road trip. Acting as the mechanic she cleaned the carburetor with her hatpin and used a garter to insulate a wire. During a refueling stop at a local pharmacy she asked a shoemaker to nail leather on the brake blocks as they had worn down, appearing to have invented brake lining on the way.

A group photo of EX-Ls was taken next to a racing and touring 1924 Hispano-Suiza Model H6C, Dubonnet Tulipwood treasure. An aviation company was commissioned to build a lightweight body forming a frame of wooden ribs, which were covered with wooden veneer. Strips of tulipwood were fastened to the veneer with thousands of brass rivets, sealed, sanded and varnished having a body weight of approximately 160 pounds and a 46-gallon gas tank added for long distance racing. Dubonnet entered the 1924 Targa Florio race held in the mountains of Sicily near Palermo which was 268 miles in three laps with multiple hairpin curves on perilous mountain roads rising to an altitude of 1,970 feet from sea level where severe changes in weather frequently occurred. He finished 6<sup>th</sup> in the grueling event without a body failure and drove the car home to Naples afterward.

These are only four of the over 90 cars with the names of Porsche, Ferrari, Maserati, Alfa Romeo, Cadillac, Corvette and many more, familiar or not, as individual works of rolling art, each with a story that captured our imagination as we walked around these irreplaceable cars. All the automobiles in the

museum have been restored to original specifications or kept in original mint condition. To be in the presence of vehicles with such histories and noble stature is indeed an incredible experience and I am sure that was felt by everyone as we strolled about.

The ambiance of the museum with its high ceilings, black walls, the gallery floors highly polished black granite and well-directed stage lighting dramatizes the beauty and artistry of each automobile. The classic autos sit majestically behind velvet ropes on the highly polished marble surface as if they also wish to partake in the beauty of their own reflection.

George graciously offered to extend the tour beyond the usual time as our group was very attentive and we continued on for another half hour but as lunch beckoned and feet tired the official tour concluded with its members off to various activities. A group went to lunch at The Prickly Pear Cantina and while sitting outdoors in the pleasant shade enjoyed chatting about our lives at the 'Lab'. After lunch some returned to Berkeley and others went back to the museum to see the exhibit "Roadside Relics: Ephemera from the Recent Past" highlighting Gas Pumps and American Jukeboxes from the heyday of the jukebox in the 1940s and 1950s. I think I can safely speak for the group and say that it had been an interesting, educational day and that everyone enjoyed our visit to Blackhawk.

Perchance this information will suffice as a 'trailer' (pun intended) to entice you to visit or revisit these wonderful historically significant and artistically inspired automobiles. Who knows, maybe on the next visit one of these beauties will have a key forgotten and a 'Rolling Sculpture' could be borrowed to travel that road east to the Nevada border.

Photos taken by participants can be seen on:

<http://www.picasaweb.google.com/EXLpics>

Sandy Stewart, Assistant to Activities Coordinator



## GUEST LIST – MAY 16, 2013 LUNCHEON

Carol Adams	Regine & Larry Goth-Goldstein	Nancy & Vic Montoya
Maxine Adams	Rick Gough	Robert (Bob) Mortiboy
Richard Baker	Donald & Becky Grether	Rollie Otto
Paul Banchemo	James Haley	Richard Pehl
Edward Bennett	Ingeborg Henle	Fred Perry
Eugene & Myrna Binnall	Egon Hoyer	Conway Peterson
Kay Bristol	Ron & Marijean Huesman	Martin Pollard
Jerry Bucher	Joe & Janean Jaklevic	Patti Powers-Risius
Geores Buttner	Vicky Jared	Mike Press
Ed Chubak	Kathy Jarrett	Clay Sealy
Patrick Cullinane	David Johnson	Andy Sessler
Eleanor Dahl	John & Ann Kadyk	Richard Sextro
Diane D'Aoust	Matt Kotowski	Brenda Shank
Janis & Ned Dairiki	Almon (Bud) Larsh	Robbie & Mary Smits
Ray Dod	John & Barbara Lax	Dave & Sally Stevens
Andy DuBois	Branko & Ana Leskovar	Sandy Stewart
Bill Dumbleton	Donald Malone	William (Bill) Thur
David Edgar	Douglas McWilliams	Isaac Turiel
Trudy Forte	L. Menchaca	Louise Vogelsberg
William (Bill) Gilbert	Donald & Bertha Miller	Allan Zalkin
John Girman		
Tony Hansen, Guest Speaker	Raffle Winners: Ed Chubak, John Kadyk, Lara Gundel	



### Why I Joined Watergate at Ashby Village – Eleanor C.Dahl

The concept of a Village began in 2001 with a group of women in the Beacon Hill area of Boston. They realized, as they were aging, that they could no longer do such things as: replace a light bulb. Hence, the idea of younger Volunteers providing these services for older people. In addition, it gives one a sense of community. Ashby Village started in 2010 and is one of the more than 100 Villages throughout the nation. Watergate at Ashby Village started in 2012.

Some of the categories, provided by the volunteers, available through the Village are: transportation for Dr. appointments, MedPal (who serve as a driver and a person to take notes at the Dr. appointment—many of whom are retired medical professionals), grocery shopping, errands, Ashby Village events and activities, book donations, minor household repairs (such as replacing a light bulb, light gardening, light pet care), cultural, social, and educational events and gatherings, and referrals to paid service providers, etc.

The people who provide these services are all Volunteers. Volunteers go through a rigorous process that includes: completing an application,

interviewing at Ashby Village in Berkeley on Durant Avenue, providing personal references, etc. They also have a one-half day training at the office. For some services, they receive additional training.

At Watergate, we have monthly lectures on current subjects, book club, potluck dinners, and in the fall, we will have new activities. We have about 25 members who are becoming a community within a broader community here at Watergate. At Watergate, we have Volunteers who are drivers and MedPals.

I was among the first to join in September of 2012. Their programs looked as though it would be useful for me, since I was recently widowed and do not have a car. For me, it has been a wonderful program. I have used it mainly for medical purposes but also for transportation to a printer, furniture shopping, concert, Memorial, etc. I would encourage anyone who has a need for such help to join the Village.

For further information, visit [www.ashbyvillage.org](http://www.ashbyvillage.org) or call the office at 510-204-9200. For Watergate people, contact Tobey Klein at 510-653-4205 or Sam Foushee at 510-658-4915.

**Date:** Thursday, August 15, 2013

**Where:** Berkeley Yacht Club, #1 Seawall Drive, Berkeley ← ← ← ←

**Time:** Doors Open at 11:30 AM - Lunch Served about 12:00

**Bar Service:** Opens at 11:30

**Speaker:** Dr. Tamas Torok

**Bio:** Ph.D. 1982 Un. Of Szeged, Hungary, Positions: 1974-1988 Sr. Staff Sci., Dept of Microbiology, Corvinus Un., Budapest, Hungary, 1988-1992 Visiting Sci., USDA Western Regional Research Center, Albany, CA, 1992-present, Scientist and Staff Scientist, Life Sciences Division, LBNL.

**Title:** Beauty and the Beast

**Topic:** Dr. Torok, a microbiologist for 42 years will talk about his journey, i.e., about serendipity in science, microbial diversity, probiotics and bioweapons. Microbes are his specialty, be it microbes from the deep frigid waters of Lake Baikal in Siberia or microbes deep in our gut. See newsletter article for further details.

**Catering Service:** R & J Catering, Hayward, CA

**Menu:** Mixed green salad (family style), tortillas and butter will be served at the tables along with coffee and water. Hot tea is available on a side table.

**Entrees:** Chile Rellenos, Chicken in a Chipotle sauce, Rice and Beans

**Desserts:** a surprise

**Cost:** \$30 per person (prepaid)

Reservations: Computer access to the LBNL/EX-Ls Web page ([www.lbl.gov/EX-Ls](http://www.lbl.gov/EX-Ls)) will also give you the lunch form. Vicky Jared must receive your reservation by Monday, August 12. The form should be mailed to Vicky Jared, 4849 John Muir Road, Martinez, CA 94553. Please call or email Vicky (925) 228-2145 - [jaredrv01@aol.com](mailto:jaredrv01@aol.com) if you want to sign up or have questions.

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See you at **BERKELEY YACHT CLUB** for the **August 15 luncheon**. Be sure to make reservations by Monday, 08/12/13. Mail To: Vicky Jared, 4849 John Muir Road, Martinez, CA 94553

From \_\_\_\_\_

I Plan to attend the EX-Ls Luncheon Yes \_\_\_\_\_ No \_\_\_\_\_ **\$30 per person**

I will bring \_\_\_\_\_ guest(s)

Name(s) of Guest(s): \_\_\_\_\_

**Menu is Buffet: Advance Choice is not required**

Please make check payable to EX-Ls Total Enclosed: \$ \_\_\_\_\_

Willing to carpool: As Rider? \_\_\_\_\_ As Driver? \_\_\_\_\_

Need Help with Buffet? \_\_\_\_\_ Need to sit closer to the Screen? \_\_\_\_\_