

NewsLetter

Week of February 26, 2007

Vol. 8, No. 5

Two Los Alamos scientists receive E.O. Lawrence Award

by Todd Hanson

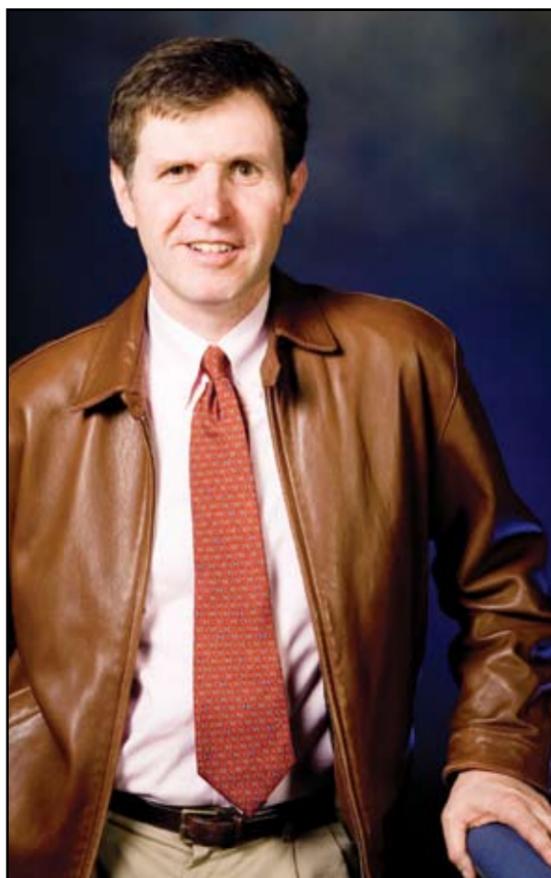
Laboratory scientists Malcolm J. Andrews and My Hang V. Huynh are recipients of the Department of Energy's E.O. Lawrence Award.

"These brilliant scientists and their varied and important research inspire us," DOE Secretary Samuel Bodman said. "Their work reminds us of the importance of continued investment in science and the need for increased emphasis on basic research and math and science education programs."

Andrews is a mechanical engineer and mathematician in Continuum Dynamics (CCS-2) and Neutron Science and Technology (P-23). Named a Los Alamos National Security Fellow in 2005, Andrews is a world-renowned expert on Rayleigh-Taylor mixing and unstable or turbulent fluid flow processes that are critical to the quality of predictions of the nation's nuclear weapons stockpile reliability and thus to the nation's security. He has developed a world-class capability for buoyancy-driven mixing research and is one of the leading individuals in obtaining closure between theory, computation, and experiment in this field.

"I am deeply honored to receive this award and would like to acknowledge the support of my family," said Andrews. "Being at Los Alamos has offered me an exciting opportunity to work with world class Los Alamos researchers on projects of great consequence to our nation's security."

Huynh, a chemist in High Explosive Science and Technology (DE-1), is the pioneer for the groundbreaking discovery of Green Primary Explosives to replace mercury and lead primary explosives, which have caused detrimental effects on the environment and humans for nearly 400 years. Her interdisciplinary research has led to the formation of a new series of high-nitrogen transition metal complexes, which are perfect precursors for preparing metallic nanofoams.



Malcolm Andrews



My Hang Huynh

Photos by LeRoy N. Sanchez, Records Management/Media Services and Operations

Huynh said, "In my scientific work at [the Laboratory], I have always tried to focus on relevant issues of great consequence to human safety and environmental problems. I am pleased that my work at the High Explosive Science and Technology group has allowed me to have an impact on national security science as well as a potential positive impact on the world's environment. It is truly an honor to be named as one of these select group of award recipients."

The Los Alamos winners join Paul Alivisatos from the University of California at Berkeley and Mounqi Bawendi, Massachusetts Institute of Technology, jointly; Arup K. Chakraborty, Massachusetts Institute of Technology; Marc Kamionkowski, Caltech; John Zachara, Pacific Northwest National Laboratory; and Steven Zinkle, Oak Ridge National Laboratory as E.O. Lawrence Award recipients. Andrew, Huynh, and the other winners will officially receive their awards at a ceremony in Washington, D.C.

"New Mexico is home to some of the most brilliant scientific minds," said U.S. Senator Pete

Domenici, R-New Mexico. "During my time as senator, I have worked hard on behalf of the DOE labs so that every American can benefit from such smart and innovative minds. I am especially proud to know that two of my fellow New Mexicans are being recognized for their invaluable contributions to DOE."

"I congratulate Malcolm Andrews and My Hang Huynh for this well-deserved recognition. Their work is a great example of the outstanding, important contributions being made by scientists, mathematicians and engineers at [Los Alamos National Laboratory,] U.S. Senator Jeff Bingaman, D-New Mexico, said.

The Ernest Orlando Lawrence Award was established in November 1959 in memory of the inventor of the cyclotron to honor exceptional contributions by mid-career scientists involved in research and development that support the DOE and its mission to advance the national, economic, and energy security of the United States. The award consists of a gold medal, a citation, and an honorarium of \$50,000.

More information on the winners and their work is available in a DOE news release or at www.sc.doe.gov/lawrence/ online.



P.O. Box 1663
Mail Stop C177
Los Alamos, NM 87545

Pre-sorted Standard
U.S. Postage Paid
Albuquerque, NM
Permit No. 532

LALP-07-001

For Your Safety



Take care:

Cover coughs and sneezes
Keep hands clean

Healthy habits can protect against the spreading of germs at home, work, and school. The following tips from the Centers for Disease Control and Prevention and the Department of Health and Human Services can help:

- Cover the mouth and nose. Use a tissue when coughing or sneezing and drop it in the trash. If you don't have a tissue, cover your mouth and nose as best you can.

- Clean hands often. Clean hands every time you cough or sneeze. Hand washing stops germs. Alcohol-based gels and wipes also work well.

- Remind children to practice healthy habits. Germs that cause colds, coughs, flu, and pneumonia can spread easily.

- Healthy habits help reduce illnesses and sick days. Feel good about doing the right things to stay well.

For more information, go to <http://www.cdc.gov/germstopper> online.



Change, teamwork the path ahead

Laboratory Director Michael Anastasio listens to a comment from a member of the audience during an all-employee meeting in the National Security Sciences Building at Technical Area 3. The director's talk focused on recent Congressional hearings on security at Los Alamos but also included information about safety and the budget. Anastasio noted the need for all employees to work together to make change and emphasized the seriousness of the hearings in Washington, D.C., and the subcommittee's concern about the pattern of security problems at the Laboratory. He then discussed his path forward, which emphasizes the need for the Laboratory's entire work force to work together and take personal responsibility for the future of the Lab. "These are not problems for someone else to fix, but for all of us to fix," Anastasio said. Photo by Sandra Valdez, Records Management/Media Services and Operations

Triumph in the face of adversity... Tuskegee Airman shares his experiences

by Krista D. Wilde



A model of a P-51C Mustang fighter plane sits atop the podium in the Physics Building Auditorium as Tuskegee Airman Bob Lawrence talks to a Laboratory audience in celebration of Black History Month. Lawrence flew a P-51C Mustang, among others, in World War II. Photo by Richard Robinson, Records Management/Media Services and Operations

War means adversity and challenges for all soldiers, but few soldiers expect opposition from the country they are serving and the people they are fighting to protect.

This is what Bob Lawrence, a Tuskegee Airman, said he experienced when he fought for the United States during World War II as part of the first all-black fighter squadron.

Lawrence shared some experiences of his time in the military during a talk at the Laboratory. The Office of Equal Opportunity and Diversity (HR-OEOD) and the African American Diversity Working Group sponsored the talk as part of the Lab's observance of Black History Month.

Lawrence enlisted when he was eighteen and was chosen to be part of an "experiment" to determine whether or not African-Americans were able to serve as fighter pilots. He and the other men in his group were segregated from other trainees and had to travel into the South with the bus shades pulled down, Lawrence said.

"Some of the instructors and commanders wanted this experiment to succeed, but there were others who wanted to make it as tough as possible on us," said Lawrence.

Even after the squadron finished training, they faced challenges. Members of the group, Lawrence said, weren't accepted by any theater commander, because of the color of their skin. Finally, they were assigned to harbor patrol in North Africa. This wasn't a fighter-pilot assignment, but when officials learned that the Tuskegee Airmen had not been involved in a conflict, they believed it was because the men were scared and avoiding engagement, said Lawrence.

Finally, a commander accepted their squadron, and although they still were segregated and discriminated against, they were able to serve on missions protecting bombers, he said. The squadron went on to prove that they were as capable as any other squadron, received presidential recognition, and protected many bombers.

"We had the 'double V' for victory because we were fighting two battles. We were fighting the war, and we were fighting the segregation back home," said Lawrence.

"I'm proud to say that the Tuskegee Airmen went on to serve as doctors, lawyers, mayors, congressional representatives, and presidents of colleges after the war. We were pioneers in our communities," said Lawrence. "We were able to prove that we have the courage, we have the spirit, and we can be productive if given the opportunity."

Los Alamos National Laboratory NewsLetter

The Los Alamos Newsletter, the Laboratory bi-weekly publication for employees and retirees, is published by the Communications Office in Communications and Government Affairs (CGA). The staff is located at 135 B Central Park Square and can be reached by e-mail at newsbulletin@lanl.gov, by fax at 5-3910, by regular Lab mail at Mail Stop C177 or by calling the individual telephone numbers listed below. For change of address, call 7-3565. To adjust the number of copies received, call the mailroom at 7-4166.

Editor:

Jacqueline Paris-Chitanvis, 5-7779

Associate editor:

Steve Sandoval, 5-9206

Production editor:

Denise Bjarke, 7-3565

Graphic designer:

Edwin Vigil, 5-9205

Los Alamos National Laboratory is a multidisciplinary research institution engaged in strategic science on behalf of national security. The Laboratory is operated by a team composed of Bechtel National, the University of California, BWX Technologies and Washington Group International for the Department of Energy's National Nuclear Security Administration.

Los Alamos enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health and global security concerns.



Printed on recycled paper.
Please recycle.



Laboratory communicators capture seventeen awards

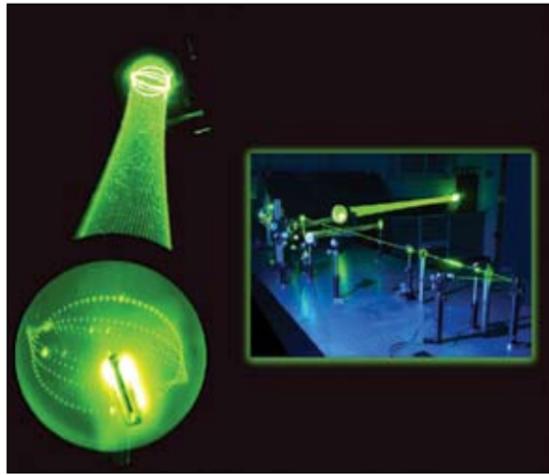
Laboratory communicators won seventeen Society for Technical Communication awards in the 2006 Southwest Regional Publications, Art, and Online competitions.

Two of the winning entries received Distinguished Technical Communication (DTC) awards, the highest honor in this competition. These two entries also were submitted to STC's international competition.

Sponsored by the New Mexico Kachina chapter of the Society for Technical Communication (STC), the awards program recognizes individuals who have developed effective communications products.

Sixteen of the awards went to employees in Communication Arts and Services (IRM-CAS) while **Joshua Smith** of the Chemistry (C) Division also received an STC award. Altogether, Lab employees garnered two DTC Awards, five Excellence Awards, and ten Merit Awards, said Judy Prono of IRM-CAS.

Pamela Paine, **Craig Carmer** (IRM-CAS), and **Gail Flower**, who recently retired from IRM, earned a DTC award for their Applied Physics (X) Division Fellows poster. **Denise Sessions** (IRM-CAS) and **Richard Young** of Information Technology Services (IST-IS13) also earned a DTC award for the Theoretical (T) Division's Publications Web page. All of the winners and their entries are

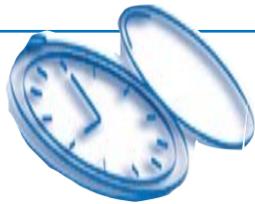


A recirculating Herriott cell, shown here, allows a laser beam to be repeatedly sent into the cell for a specified number of times. The photo earned an Society for Technical Communication Award of Excellence in the Technical Art category. Photo by Joshua Smith, Chemistry Division

listed on the IRM-CAS Web site at <http://lanl.gov/orgs/im/im1/stc.shtml> online.

"These awards reflect the quality of the work that is done by IRM-CAS group members and others at the Lab. Our employees win awards in other competitions and have been recognized in past years as well. Winning these types of awards demonstrates the consistency and quality of these products," said Prono.

The 2006 competition included fifty-six entries from California, Arizona, New Mexico, and Oklahoma.



February service anniversaries

35 years
Michael Martinez, RP-2

30 years
Robert Holder, ASM-AO
Robert Naranjo, CPO-OFF
Richard Romero, WS-TWPS
Yvonne Salaz, PCM-DO
James Stine, DE-1
Gary Sullivan, HX-6
Pamela Ulibarri, HR-CS
Yolanda Valdez, B-1
Laurance Warner, ISR-6
Craig Yost, MSS-IFCS

25 years
Lee Anderson, W-8
Jacobo Archuleta, ISR-4
Ricky Baros, WS-FWS
George Faulkner, IAT-2
Brad Gallimore, CMRR-PO
Virginia Hamilton, C-IIAC
Victor Hogsett, IAT-1
David Martinez, RP-1
Josephine Mccarthy, OS-DO
Thomas Norris, AET-2
Richard Salazar, PMT-2
David Sanchez, IHS-DO
William Scarborough, ISR-1
Jenny Vigil, ASM-ASM

20 years
Charles Aldrich III, X-3-PC
David Apel, OM-OMO
Rebecca Atencio-Flores, ASM-PM
Mark Backus, ASM-PUR
Rebekah Green, IST-APPS1
Alison Grieggs, X-1
Douglas Kautz, WCM-2
Brenda Pacheco, IRM-DC
Pete Sanchez, RP-1

Ralph Stevens, WT-2
Sandra Yates, W-DO

15 years
Michelle Cantu, ADBS
Michael Duran, RP-1
Michael Johnson, CTN-3
David Kilcrease, T-04
John Lyles, AOT-RFE
Edward Mackerrow, IAT-1
Gregory Rand, W-7
Dianne Roybal, N-4
Matthew Sanchez, IHS-OS
Donald Shires, IST-APPS1
Thomas Terwilliger, B-2

10 years
Wilbur Bergquist, W-12
Thomas Brettin, B-5
Joann Campbell, X-3-EC
Margaret Casaus, HR-WEAPONS
Jason Cooley, MST-6
Christina Files, IAT-2
Duane Flamig, X-1-TA
Steven Gonzales, IAT-3
Isaac Herrera, HX-3
Richard Holmes, X-1-HEDPL
Mary-Beth Inglis, CFO-2
Kristy Montoya, CFO-DISB
Rangachary Mukundan, MPA-11
Brian Reardon, X-4-NS1
Teresa Roberts, IST-IS13
Corine Romero, CFO-2
Kenneth Rowilson, PMT-3
Eric Sorensen, AET-1
Janet Sprake, TT-DO
Kyle Stokes, W-3
Davita Valdez, HPC-1
Pamela Vigil, IRM-DC
Deborah Woitte, LC-LESH
Orbry Wright, PF-TDI

5 years
Mark Armijo, WCM-3
Fabian Atencio, ISR-4
Theodore Ball, PP-WEP
Stephen Balzer, HX-3
Anthony Bodin, WT-9
Earl Boule, ASM-SUB
Barton Burson, ASM-PUR
Robert Coker, X-2-PC
Clara Cusumano, X-2
Sharla Dempsey, C-AAC
Eugene Dougherty, HPC-1
Gary Gardner, N-2
Richard Hawes, AET-3
Joshua Joseph Jr., N-4
Leslie Kelch, CT-DTS
Richard Kippen, ISR-1
Jozef Kuzminski, N-1
Wendy Laird, SEC-DSS9
Tyson Lansford, PP-SEC
Donald Lash, N-2
Lisarae Lattin, CT-DTS
Matthew Lavy, WS-HMWO
Roy Lee, CT-DTS
Kristy Long, PMT-1
Raylyne Lujan, CS-OCS
Frances Martin, C-AAC
Leon Martinez, WS-TWPS
Tonya Mosley, SEC-DSS9
Lorenzo Najera, W-7
Scott Pakin, CCS-1
David Pugmire, MST-16
Tania Sanchez, EES-2
Evan Sanchez, CGA-GAO
William Schmitz, W-7
Devin Shunk, WT-1
David Thomson, AET-4
Jessica Trujillo, W-2
Jeffrey Tucker, PP-MFG
Douglas Wokoun, LDRD-PO
Warren Yamada, MQ-1

Clarification ...

Ed McKigney of Safeguards Science and Technology (N-1) was one of the recipients of the Institute of Electrical and Electronics Engineers (IEEE) Early Career Award for outstanding achievement in radiation detection.



Q: If you were given the absolute authority for 24 hours to make two changes — large or small — at the Laboratory, what would they be and why?



Martha Waters of the Prime Contract Office (PCO)

The first change I would make is to ensure that all Lab managers learned to communicate openly and honestly with their work force and surrounding communities (get the news out good or bad before the media has a chance to embellish to its liking). The second one would be small but have a major impact. I would celebrate and recognize the Lab work force everyday ... Chocolate everyday!



John Armijo of the Ombuds Office (OMBUDS)

One thing I would like to do is let staff be assured of the many opportunities at the Lab and not feel overwhelmed by the transition — there is a wealth of opportunity ahead. Another change I would make would be to improve and increase internal Lab communication.



Mike Cisneros of Purchasing (ASM-PUR)

Considering the magnitude of the Laboratory, there really are no significant changes that can be made in one day. However, I would take the whole day to visit as many technical areas as possible to get a chance to meet and talk with some of the great people that work here at the Laboratory.

In Memoriam

Paul Argo

Laboratory employee Paul Argo died December 20, 2006, while bicycling home from work in Washington D.C. He was 58.

Argo, of Nuclear Nonproliferation (NN), was on assignment as a technical adviser to the National Nuclear Security Administration.

Argo received a bachelor's degree in physics/math from Pomona College in Claremont, California, and a master's degree in applied physics from the University of California, San Diego.

He is survived by his wife, Elaine, son Gavin and daughter Tegan.

E.P. "Phil" Ehart

Laboratory retiree E.P. (Phil) Ehart died December 29, 2006. He was 81.

Ehart began working at the Laboratory in 1956 as a research assistant in the former CMR Division. At the time of his retirement in 1989, he was a staff member in the Materials Science and Technology (MST) Division.

He received a bachelor's degree in chemical engineering from the Illinois Institute of Technology and served in the Marine Corps during World War II.

Ehart is survived by his wife, Linda of Albuquerque; daughter Suzanne Bell; son Adam of Baltimore, Maryland; and two grandchildren.



'Fat Men' on ice



Filip Ronning, left, battles for the puck.

by Steve Sandoval

There were no penalty shots or *ESPN Sportscenter* moments at the Los Alamos Ice Rink. And no, a hockey game didn't break out at an ultimate fighter match. But what spectators did see recently was a closely played hockey game between the Los Alamos Fat Men and a team from Albuquerque.

The Fat Men are all Laboratory employees; their opponent was a composite team from Albuquerque that included Sandia National Laboratories employees. Sandia won the game 7-4, avenging an earlier defeat to the Fat Men.

"We're hoping to do this more frequently ... A bunch of us play pick up games on Tuesdays and Sunday nights, and we thought it would be a fun idea to play other teams," said Jeff Roach of Nuclear and Radiochemistry (C-NR), a chemistry technician who played hockey as a kid and coaches his children's hockey team.

"Some [on the team] have played hockey all their lives. We have a few gentlemen who recently started. So we have all ability levels and from all walks of life," he said. "A fair number of us also coach or have kids who play hockey."

In the game against Sandia Lab, Fat Men goals were scored by forward Erik Holmstrom, on an assist by Mike Foster; Kirill Zhuravlev on an assist by Eric Loomis; Filip Ronning on an assist from Phil Warnock; and Scott Havemann assisted by Herb Funsten.

Foster of Applied Engineering and Technology (AET), the Fat Men team captain, added, "We play for fun. We made sure when we organized the game that having fun was the driving factor."

Foster has been playing hockey six years but had never skated before giving hockey a try. "I knew a couple friends [who played hockey] and decided to give it a shot," he said matter-of-factly. "It's a lot of fun and a lot safer than most people think."

Twenty-one Lab employees make up the Los Alamos Fat Men; the team is part of the USA Hockey Association, and they've been playing together about three years, though this is the first year as an organized team, according to Roach.

Only incidental contact is allowed — no "checking" in hockey parlance. So you won't see the typical National Hockey League *ESPN* highlights of players being body slammed into the glass, but you may see them sitting in the penalty box on occasion.

Foster said he hopes to organize a rematch against the Sandia Lab team next month, as well as future games against a team from Kirtland Air Force Base. Games in Albuquerque are played at Outpost Ice Rink.

For more information about the Los Alamos Fat Men, contact Foster at 5-9258 or Roach at 5-4452.



Goalie Randy Axtell covers the puck as Erik Holmstrom, standing center, Dash Weeks, and Scott Havemann squeeze the Albuquerque players.



Herb Funsten shoots on net with Scott Havemann and John Berg looking on.



The Los Alamos Fat Men congratulate the Sandia team following the game.



Back row left to right: Phil Warnock of Physics; Erik Holmstrom of Equation of State and Mechanics of Materials; Herb Funsten of International, Space, and Response; Eric Loomis of Plasma Physics; Filip Ronning of Condensed Matter and Thermal Physics; Kirill Zhuravlev of Physical Chemistry and Applied Spectroscopy; Dash Weeks of Testing and Advanced Diagnostics; Scott Havemann of Subcontracts; and Bob Poole of Subcontract. Front row left to right: Tom McLean of Health Physics Measurements; Tim Ickes of Applied Engineering and Technology; John Berg of Actinide and Fuel Cycle Technology; Steve Bolivar of Geotechnical Services; Randy Axtell of Low Level Waste Disposal; Jeff Roach of Nuclear and Radiochemistry; and Mike Foster of Applied Engineering and Technology. Not pictured are Justin Cassel of the Los Alamos Fire Department; Joel Kress of Theoretical Chemistry and Molecular Physics; Jason Halladay of Network Engineering, Dave Smith, and Tom Yoshida of Chemical Sciences and Engineering. Photos by Bob Brewer, Records Management/Media

Services and Operations