

**SCIENCE**

## Volunteers hope ORNL technology will speed Haiti's long quake recovery

The multi-functional biochip (MFB), a technology first developed at Oak Ridge National Laboratory in the 1990s, could help to speed Haiti's recovery from its devastating 2010 earthquake and improve the Haitian population's overall public health by allowing quick, in-the-field diagnoses of diseases.

A team of Haiti volunteers that includes ORNL staff members has high hopes for the technology because of its simplicity and ability to rapidly collect data.

The 7.0 magnitude earthquake that struck Haiti in Jan. 2010 resulted in the deaths of an estimated 220,000 people and the displacement of another two million. With the infrastructure in shambles, cholera outbreaks and other preventable infectious diseases and mosquito-borne illnesses like malaria and dengue have become more common, making Haiti's recovery a slow and difficult process.

Invented by former ORNL researcher Tuan Vo-Dinh, in collaboration with Alan Wintenberg and Nance Ericson, the MFB can detect multiple infectious pathogens simultaneously. This technology received a prestigious R&D 100 award in 1996. The novel idea of implementing the multichip technology in Haiti was brought about by Dr. Charlie Barnett, Richard Hale and David Resseguie.

Barnett—the son of a former ORNL employee and a physician in Knoxville who originally licensed the MFB—has partnered with the ProVision Foundation of Knoxville to fund and voluntarily serve in medical clinics in Port au Prince. Hale—who works in the Reactor Nuclear

Systems Division at ORNL—is interested in developing algorithms that map point-of-care field measurements that could improve predictions of the spread of infectious diseases.

Another collaborator, David Resseguie of ORNL's Computational Sciences and Engineering Division, has developed tools for collecting and visualizing sensor data to enable easier access to information and faster decision making.

In March, Barnett and Hale ventured with a team of ProVision volunteers to serve in the medical clinics. Their mission was to lay the groundwork for a long-term

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The volunteers believe the biochip is an ideal device to combat Haiti's infectious disease problem.

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project to build an application that maps outbreaks of dengue and malaria via quick field diagnoses made by the MFB. This application would combine elements of rapid field data

collection, GIS mapping, data base queries and network theory algorithms to construct models of how the infectious diseases spread through the population.

Dengue and malaria are both debilitating and potentially deadly mosquito-borne diseases affecting the populations of many countries, primarily those with tropical and sub-tropical climates. Dengue fever is the most rapidly spreading mosquito-borne viral disease in the world, and malaria is the number one mosquito-borne infectious disease killer in the world.

Poverty often contributes to the widespread transmission of all these infectious diseases. Coupled with malnutrition and weak immune systems, the inability to afford preventative medications or bug spray for malaria and dengue can take a heavy toll on an already at-risk population.

*(continued on page 3)*



*Dr. Charlie Barnett works in a clinic in Haiti, where conditions after the 2010 earthquake have worsened the country's already serious health care limitations.*

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## Marshall Hackworth heads Briceville library effort



Marshall Hackworth stands with Briceville's new library.

Leadership qualities that 81-year-old Marshall Hackworth developed over 40 years working in Oak Ridge are paying off as the dedication nears for the new Briceville Library in the far northeastern corner of Anderson County.

Marshall—who worked eight years at ORNL in various roles with the old Plant and Equipment Division and 32 years at K-25—has spent the past seven years leading the charge for construction of the new Briceville Library.

A former member of the Anderson County Library Board, which oversees libraries in Clinton, Norris and Lake City, Marshall concluded long ago that Briceville was also in need of a first-class facility.

“Briceville has had a small library in the Friendship Center of the Clinton Baptist Association building there, but the space has been too small to adequately equip everything you need for a library,” Marshall said. “I’ve always felt folks in the Briceville area were short-changed when it came to a library and that is why I decided to take this project on.”

Marshall was able to lead the effort for the \$400,000 project by gaining unanimous support from both the Anderson County Commission and Board of Education. He was also able to collect financial and other support from many lawyers and other professionals, throughout all parts of Anderson County.

“I’ve been told that to do a project like this, it usually takes about 10 years to accomplish,” Marshall said. “Fortunately for us, this will be done in seven years.”

Part of the fund-raising came from a \$50,000 public campaign that has continued over the years. In addition to support from county sources, funding came from grants awarded by the Tennessee secretary of state’s office and the U.S. Department of Agriculture.

Marshall—who lives in the Dutch Valley community located about 10 miles from Briceville—has had advice throughout the process from his building committee members, the regional library director, county library board and other county government officials.

In addition to the construction phase of the project, Marshall has also focused on increasing the number of volumes in the new facility, as well as adding other new resources.

“I had one man in Oak Ridge donate 10,000 books,” Marshall said. “He also donated some old classical records. I’ve contacted book suppliers and others willing to help us with adding to our collection.”

The new Briceville Library is located on the grounds of the Briceville Elementary School. There is a 30-year lease with two 30-year extensions to follow.

“The Briceville Library will be here for a long time to come,” Marshall said. “People in Clinton, Lake City and Norris have always taken pride in their libraries. Many people in Briceville have wanted the same thing and their wishes are finally coming true after many years.”

More information about the new Briceville Library is available by calling Marshall at 865-457-0391.—Fred Strohl 🌱

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“I’ve always felt folks in the Briceville area were short-changed when it came to a library, and that’s why I decided to take this project on.”

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(continued from page 1)

The volunteers believe the MFB is the ideal device to help combat this problem. Through the use of nanoscale capillary structures etched in the surface of the biochip, the inexpensive, matchbook-sized MFB can screen a drop of blood to simultaneously process, detect and identify multiple infectious pathogens in only 30 minutes. Its simplicity also enables a relatively unskilled technician to use the device, allowing the already stretched-thin doctors to properly diagnose and treat more patients.

Outbreaks of cholera have followed the earthquake, further straining the under-equipped public health and medical infrastructure. While differing in cause (cholera bacteria are transmitted typically through contaminated water), the need to rapidly assess the potential spread and identify key areas for mitigation is common to these and all infectious diseases.

The ability to overlay locations of outbreaks with GIS data, including infrastructure, population movements and demographics, is a key attribute for developing a larger model of infectious disease spread. Accomplishing this requires the ability to rapidly detect the disease, which is now possible with the use of the MFB. But medical equipment and trained medical staff are hard to come by in Haiti.

“The doctors in Haiti don’t have a lot of equipment,” says Barnett. “Most always, they just have to guess what you have.”

“If you have the tools, like the equipment Dr. Barnett has developed and the application we’re trying to build, in place, maybe you can save the lives of millions of people. That’s the big picture,” Hale says. “The great ideas like these are like lilies in the noon-day sun, they require careful nurturing.” —*Joshua Haston* 🌱

## Hardin Valley Academy’s Meredith Graves wins UT-Battelle Scholarship

**Meredith Graves, a senior at Hardin Valley Academy,** is the recipient of the 2013 UT-Battelle Scholarship to the University of Tennessee.

The four-year, \$20,000 scholarship, presented annually to a graduating senior with a parent who works at ORNL, is awarded annually to an outstanding student who plans to study science, engineering or mathematics at the University of Tennessee.

Graves, daughter of Van and René Graves of Knoxville, has already been accepted into UT’s Bachelor of Architecture program, where she hopes to apply her interest in STEM-related fields to the design of energy efficient and environmentally friendly structures.

“I hope to learn the environmental impacts of certain aspects of designing and constructing buildings and what solutions have been created to lessen harmful consequences on the environment,” Graves wrote in her application essay.

Graves received the Hardin Valley Academy’s STEM Engineering Award this year. She has also been active in the Student Government Association, Technology Student Association, Sigma Tau Phi and the National Honor Society. Outside interests include the Dance Centre of Knoxville, the Oak Ridge Civic Ballet and the youth group of the First Baptist Church of Powell.

Her father, Van Graves, is a member of the Remote Systems group within ORNL’s Nuclear Science and Engineering Directorate. The UT-Battelle scholarship is a competitive award, distributed in \$5,000 increments over four years of undergraduate study at UT. —*Bill Cabage* 🌱



Scholarship winner Meredith Graves and Lab Director Thom Mason. (Photo by Jason Richards)

## ORNL donations saved damaged clinic

**Following the 2010 earthquake, ORNL staff members donated about \$18,000** to Haitian Relief, Team UT-Battelle account. The funds were used to repair a quake-damaged medical clinic in the village of Boucan Carre.

“Those repairs were made and enabled the clinic to keep accepting patients. This was during the period when Haiti had the cholera outbreak, so the funds came at a critical time,” says former ORNL communications director Billy Stair.

Stair works with Knoxville Haiti Outreach, which has also built an elementary school and just completed a high school, plus a tiny clinic in a remote village called Bouly.

## Public bus tours available this summer

**DOE’s 2013 Oak Ridge facilities public bus tours continue this summer through August 30.** The tour offers visitors a first-hand look at the Oak Ridge facilities and provides historical commentary on the transformation of the Oak Ridge Reservation during the past 70 years.

The three-hour, reservation-wide tour allows visitors to see the reservation and learn historical facts and updates on the world-class missions underway in Oak Ridge. Bus stops for the tour include the New Hope Center at the Y-12 National Security Complex, the New Bethel Baptist Church, the Historic Graphite Reactor, East Tennessee Technology Park (formerly K-25), the American Museum of Science and Energy (AMSE).

Tours are available Monday-Friday, excluding government holidays (July 4 and 5), and depart from the AMSE, located at 300 South Tulane Avenue, Oak Ridge. For more information, call Lissa Clarke, AMSE, at (865) 576-3218 or DiAnn Fields, DOE, at (865) 576-0885, or visit [www.amse.org](http://www.amse.org).

## Service Anniversaries

## June 2013

**40 years:** **Patricia G. Cleveland**, Environmental Protection & Waste Services; **Patrick N. Rader**, Financial Management Services

**35 years:** **Donna Jo Roy**, Communications; **Martin Schweitzer**, Environmental Sciences; **Joe R. DeVore**, Research Accelerator; **Charles D. Fisher**, Information Technology Services; **Randy W. Hobbs**, Research Reactors; **Gary T. Alley**, Measurement Science & Systems Engineering; **Kay Thacker**, Facilities & Operations Dir.; **Shirley Ann Shugart**, Materials Science & Technology; **Ronald A. Cain**, Nuclear Security & Isotope Technology; **Dan Mobley**, Fabrication, Hoisting & Rigging

**30 years:** **Robert J. Quinn**, Logistical Services; **Mark Benjamin Keck**, Retirement Services; **Michael S. Hileman** and **Eva B. Freer**, Measurement Science & Systems Engineering; **Jeffrey Allen Long**, Laboratory Protection; **John Kreglow Arthur**, **Don Foster Jr.** and **William Wayne Bolinger**, Nonreactor Nuclear Facilities; **Linda Lenell Smith**, Environmental Protection & Waste Systems; **Al Geist**, Computer Science & Mathematics; **David J. Wesolowski**, Chemical Sciences; **Rick Phillips**, Information Technology Services; **Deborah J. Weaver**, Reactor & Nuclear Systems

**25 years:** **Rebecca Heatherly**, Information Technology Services; **Susan R. Michaud** and **David Dillon Skipper**, Environmental Protection & Waste Systems; **Aleisa C. Bloom**, Environmental Sciences; **Ron Conaway**, **Jeff Kirk** and **Donald G. Raby II**, Research Reactors; **Raymond L. Wade**, Facilities Management; **Brett Hopwood**, Communications; **Maria Mayer Skipper**, Financial Management Services; **Debi S. Fox** and **Joel R. Lay**, Strategic Business Services; **E. Sue Bolce**, Logistical Services; **Karren Leslie More**, Materials Science & Technology; **Robert Edward Upchurch**, Nuclear Security & Isotope Technology; **C. Scott White**, Nonreactor Nuclear Facilities; **David R. Mullins**, Chemical Sciences

**20 years:** **Steven R. Cline**, EESD Safety & Business Operations; **Venugopal Koikal Varma**, Fusion & Materials for Nuclear Systems; **Wanda R. McCrosky**, Financial Management Services; **Amit Goyal**, Materials Science & Technology; **Malinda S. Devaney**, Human Resources Dir.

## July 2013

**40 years:** **Betty J. Waddell**, Materials Science & Technology

**35 years:** **Gerald D. Mills**, Physics; **Peggy Brown**, Communications; **Kim J. Kitts**, Accounting; **Bruce A. Tomkins**, Chemical Sciences; **Mark Christopher Vance**, Office of Integrated Performance Management; **Mitch Ferren**, Physical Sciences Dir.; **Julie J. Stringfield**, Reactor & Nuclear Systems; **Wesley W. Weaver**, Logistical Services

**30 years:** **Ursula F. Henderson**, Financial Management Services; **Tina C. Curry**, Communications; **Paul R. Smith**, Nuclear & Radiological Protection

**25 years:** **Jeffrey H. Harris**, Fusion & Materials for Nuclear Systems; **Gail M. Benefield**, Information Technology Services; **Elizabeth D. Wright**, Environmental Protection & Waste Services; **Abu Bakar Ahmed**, Nuclear & Radiological Protection; **Lisa G. Davis**, Accounting; **Matthew F. Chisholm**, Materials Science & Technology

**20 years:** **Michael Scott Smith**, Physics; **John R. Haines**, US ITER Non-Nuclear Systems; **James Arthur Kohl**, Research Accelerator; **Bryan M. Coulter**, Financial Management Services

## August 2013

**55 years:** **John T. Mihalcz**, Nuclear Security & Isotope Technology

**40 years:** **David J. Bjornstad**, Environmental Sciences

**35 years:** **Bruce A. Upton** and **Marie M. Stooksbury**, Logistical Services; **Carol H. Scott**, Health Services; **Steve R. Lewis**, Environmental Protection & Waste Services; **Gerald Earle Jellison Jr.**, Materials Science & Technology; **Gerald Brent Taylor**, Research Reactors; **Michelle V. Buchanan**, Physical Sciences Dir.; **Robin D. Taylor**, Nuclear Security & Isotope Technology

**30 years:** **Donald T. Wilkerson**, Fabrication, Hoisting & Rigging; **John David Baity Jr.**, Safety Services; **David Christopher Dunning**, Research Accelerator; **Thomas W. Burgess**, Fusion & Materials for Nuclear Systems; **Patrick S. Bishop**; Nonreactor Nuclear Facilities; **Stephen M. Killough**, Measurement Science & Systems Engineering; **Dale K. Hensley**, Center for Nanophase Materials Sciences; **Lynn Allen Taylor**, Contracts

**25 years:** **Kenneth E. Plummer**, Nonreactor Nuclear Facilities; **Lori Ann Muhs**, Environmental Protection & Waste Services; **Melissa S. Ward**, **Michael L. Duncan** and **Martha Justice**, Logistical Services; **Michael D. Kass**, Energy & Transportation Science; **Wesley J. Bicha**, International Security & Analysis; **Sherry E. Brown**, Research Accelerator; **David L. Shuter**, Office of Integrated Performance Management; **Leigh G. Greeley**, Safety Services; **Christopher James Janke**, Materials Science & Technology; **Terry L. Dickson**, Computational Sciences & Engineering; **Vicky Lee White**, Center for Computational Sciences

**20 years:** **David Conrad Dunthorn**, Research Accelerator; **Edgar Lara-Curzio**, Materials Science & Technology; **Jennifer L. Chambers**, Laboratory Protection; **Stephen Reed Gordon**, Energy & Transportation Science; **Angela G. Andrews**, Nuclear Security & Isotope Technology; **Angela Denise McGee**, Logistical Services; **Charles David Sulfredge**, Computational Sciences & Engineering 🌱

## Haire receives ACS's Glenn Seaborg Award

Retired ORNL researcher and UT-Battelle Corporate Fellow **Richard Haire** has received the American Chemical Society's 2013 Glenn T. Seaborg Award, one of the top recognitions in the field of nuclear chemistry.

Known for his forefront, fundamental studies of the actinide family of elements, Haire concentrated on the transplutonium elements produced in the High Flux Isotope Reactor. He is one of a very few who has done research on the solid-state forms of the elements einsteinium and fermium, which are at the far end of the periodic table and obtainable in appreciable quantities only from research reactors such as HFIR.

## Book describes fusion's fun side

“Scientific research is not the dry disciplined area that many imagine,” says former ORNL researcher **John Sheffield**, who has a new book, *Fun in Fusion Research*.

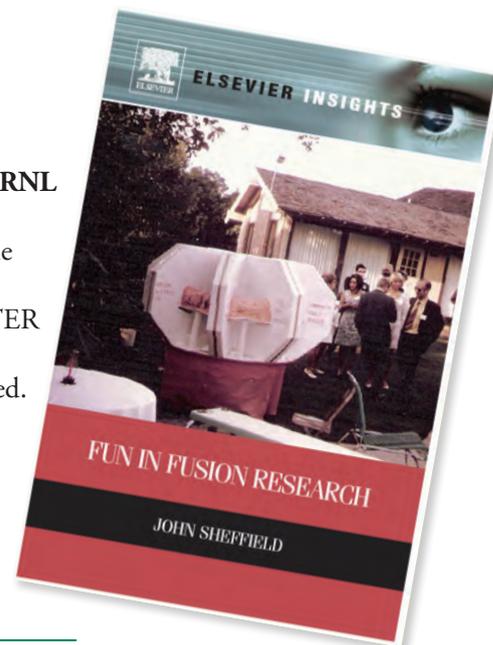
It's about “the fun side of the quest to develop fusion energy—a modern equivalent of the hunt for the Holy Grail,” says the author.

Sheffield is a fusion scientist and former ORNL program leader who worked with the ITER project in its earlier years.

“After more than 70 years of research, despite great progress, the goal has not been realized. Do you have to be crazy to love quests like this? Not really, but you do have to have an unshakable optimism,” he says.

In his book you will hear about the Texas Tokamak cake, fun in the Soviet Union, the pirate boat, the Shiva Winner Altruistic Trust, Sir Walter Raleigh selling fusion energy and many other stories.

*Fun in Fusion Research* is published by Elsevier and available at [store.elsevier.com](http://store.elsevier.com). 🌱



## Annual funding notice for the pension plan

**The annual funding notice for the pension plan for ORNL employees includes important funding information about the pension plan.** This notice also provides a summary of the plan's investment policy and rules governing the benefit payments guaranteed by the Pension Benefit Guaranty Corporation (PBGC), a federal agency. This notice is for the plan year beginning January 1, 2012, and ending December 31, 2012.

Review the cover letter at this web page: [https://portal09.ornl.gov/sites/benefits/notices/Documents/2013\\_AFN\\_cover\\_letter.pdf](https://portal09.ornl.gov/sites/benefits/notices/Documents/2013_AFN_cover_letter.pdf).

Review the complete funding notice at this web page [https://portal09.ornl.gov/sites/benefits/notices/Documents/2013\\_AFN.pdf](https://portal09.ornl.gov/sites/benefits/notices/Documents/2013_AFN.pdf).

If you have questions about the notice or terms therein, see the Funding Notice Frequently Asked Questions : [https://portal09.ornl.gov/sites/benefits/notices/Documents/2013\\_AFN\\_faqs.PDF](https://portal09.ornl.gov/sites/benefits/notices/Documents/2013_AFN_faqs.PDF).

You may also review the Glossary: [https://portal09.ornl.gov/sites/benefits/notices/Documents/2013\\_AFN\\_Glossary.pdf](https://portal09.ornl.gov/sites/benefits/notices/Documents/2013_AFN_Glossary.pdf).

If you have any questions regarding these documents, please contact Pension and Savings Operations at (865) 574-8944. 🌱

## Honors and awards

**George Flanagan** of the Reactor & Nuclear Systems Division has been elected fellow of the American Nuclear Society. The ANS recognized George's leadership in the field of nuclear safety, especially in the area of liquid metal reactor safety, space reactor safety and the safety of smaller research reactors and the applications of probabilistic risk assessment to reactors.

**Lance Mezga**, manager of Facilities & Operations Decommissioning & Demolition Program, received both a fellow award and a program advisory committee award at the 2013 Waste Management Symposium in Tucson for significant contributions to the field.

FBI Director **Robert Mueller III** presented the Computational Sciences & Engineering Division's Patricia Payne with the 2012 Director's Community Leadership Award for her “significant contributions to the FBI Citizens Academy Alumni Association and the FBI's InfraGard program.” Her involvement with the Knoxville FBI CAAA has been instrumental in promoting the FBI's Safe Online Surfing program, which teaches children about cyber safety.

The Oak Ridge Leadership Computing Facility's High-Performance Computing Operations team leader, **Don Maxwell**, received a lifetime achievement award from Adaptive Computing as part of the firm's first annual Adaptive Awards.

The *Journal of Nuclear Materials* named **Thak Sang Byun** of the Materials Science & Technology Division Best Reviewer for 2012.

**Virginia Dale** has been recognized by the International Association for Landscape Ecology with the Distinguished Landscape Ecologist Award.

The Texas Tech University Edward E. Whitacre Jr. College of Engineering has named **Kelly J. Beierschmitt**, ORNL's associate Laboratory director of Neutron Sciences, as one of the seven recipients of the 2013 Distinguished Engineer Award. The award recognizes the most outstanding alumni of the college.

**Tamara A. Spakes**, RN, of the Health Services Division has received the 2013 Marguerite Ahern Graff Excellence Award from the American Board for Occupational Health Nurses. The award goes to individuals who achieved the highest score at the national level on the previous year's certified occupational health nurse examination.

**Karren L. More** of the Materials S&T Division has received the 2013 DOE Hydrogen and Fuel Cells Program R&D Award in recognition of outstanding achievements in leading ORNL's project on Microstructural Characterization of Fuel Cell Materials and in her role as a subcontractor on multiple DOE-funded fuel cell R&D projects.

**Hua-Tay Lin**, of the Materials Science & Technology Division, has been selected to receive the 2013 Honor Medal of Aurel Stodola by the Slovak Academy of Sciences for his work on high temperature mechanical behavior ceramics and composites. 🌱

# THE NEWS

## OAK RIDGE NATIONAL LABORATORY

A Publication by and for the ORNL Employees of Carbide and Carbon Chemicals Company, Union Carbide and Carbon Corporation

Vol. 5, No. 50

OAK RIDGE, TENNESSEE

Friday, June 26, 1953

### Journal Publishes Proceedings Of Biology Meeting

The proceedings of the 1952 Biology Spring Conference, held at Oak Ridge National Laboratory on April 10-11 of last year under the sponsorship of the ORNL Biology Division, have been published as Supplement I, Volume 41, March 1953, to the Journal of Cellular and Comparative Physiology.

The conference, held in cooperation with the Division of Biology and Medicine of the Atomic Energy Commission, has as its subject "Some Aspects of Microbial Metabolism." Dr. Stanley F. Carson of the Biology Division was largely responsible for the selection of the program, which featured papers by many nationally famous biologists and biochemists. The newly published symposium, the fifth of the series which have appeared as supplements to the Journal, contains the text of all these papers, together with portions of the open discussions held during the conference.

The 232-page volume in the present reprint includes an introduction by Dr. Alexander Hollaender, head of the Biology Division, and a foreword by Detlev W. Bronk, editor of the Journal of Cellular and Comparative Physiology.

A limited number of copies are available without cost to specialists in the field. Requests for copies should be made in writing to the Biology Division, Oak Ridge National Laboratory, Post Office Box P, Oak Ridge, Tennessee.

### ORINS Schedules Advanced Course in Isotope Application

The Special Training Division of the Oak Ridge Institute of Nuclear Studies has scheduled an advanced course covering the clinical applications of radioisotopes to be held September 14-25, 1953.

This course, one of the continuing series of advanced courses sponsored by ORINS, is the second to be concerned with the medical uses of isotopes.

Participation in the course will be limited essentially to those physicians who have had clinical experience with radioisotopes. Lecturers have been selected from among the outstanding workers in the field. The Medical Division of the Institute is cooperating in the presentation of the course.

The following general topics will be covered by the course: Tumor localization; circulatory volumes and outputs; fluid and electrolyte spaces; therapy of blood diseases; theory of radiation dosimetry; radioactivity measurement; interstitial and surface applications; teletherapy; iodine-131 in diagnosis and therapy; external counting; gold-198 and colloids.



**ORNL CERAMICS GROUP**—The staff members of the Oak Ridge National Laboratory Ceramics Department are shown above. Front row: Dr. C. E. Curtis, Dr. J. R. Johnson, Ann Hobbs, and Dr. J. M. Warde, department head. Back row: A. J. Taylor, G. D. White, S. D. Fulkerson, J. A. Griffin, Dr. T. N. McVay, and L. M. Doney. Dr. McVay is a consultant. The photo at the right gives some idea of the size and general layout of the facilities of the Ceramics Department. Work areas are well planned for efficient utilization of space. Only a portion of the apparatus used by the group is visible in the photographs. The gentleman at the desk is Dr. Curtis. Further pictures of the group are shown on page 3 of this issue. (NEWS photos by Tillery)

### ORNL Ceramics Department's Role Important to AEC Reactor Program

The Oak Ridge National Laboratory's Ceramics Department was in the limelight this week. Probably the largest ceramics research and development center for all of the Atomic Energy Commission installations in the United States, the department was the subject of a news release issued by Union Carbide and Carbon Corporation on Monday of this week.

### Brazil Planning A-Power Reactor

Admiral Alvaro Alberto, chairman of the Brazil National Research Council, which is responsible for atomic research and development in that country, announced recently that the Brazilian government plans the construction of South America's first industrial atomic power reactor, using fissionable materials produced from Brazil's rich uranium and thorium deposits.

Construction of the reactor is slated for "around 1958," according to the admiral, who has been in the United States since April 27, conferring with atomic experts and industrialists. Alberto, who visited Oak Ridge National Laboratory during a previous trip to this country, said that Brazil's first uranium-processing plant will be opened within a year, and that experimental reactors will be built in two or three years. The lack of coke in the industrial areas of Brazil and the remoteness of sources of hydroelectric power make it necessary for his country to seek cheaper power through atomic energy, the admiral stated.

### TEN YEARS AGO THIS MONTH,

the first weekly salaried employees were added to the Laboratory payroll. Six in number, they brought the total roster to 39; the operating cost for the month was \$10,513.

### Supervisors Hear Emergency Plan For Lab Explained

Supervisory personnel at Oak Ridge National Laboratory attended a staff conference on the subject, "The Laboratory Emergency Plan," on Wednesday and Thursday of this week. This meeting was the fourth in the current series of programs under the general heading, "Protection of Laboratory Property and Interests."

The program was rescheduled in order to meet current Laboratory needs in conjunction with the program for training emergency crews. Two conferences were held for separate attendance by large groups, both groups receiving similar information. The presentation included a portion of the motion picture showing the Texas City disaster.

There were also demonstrations of the various emergency signals used at the Laboratory, and of methods used to turn in alarms for representative types of emergencies. Paul Arow, of the Training and Methods Department, was the principal speaker. A panel composed of T. W. Hungerford, Laboratory Protection; Don Phillips, shift supervisor; and A. D. Warden, Health Physics; also took part in the program.

### Report Interest of Electric Industry In A-Power Work

Edgar H. Dixon, chief executive officer of Middle South Utilities, Indiana, reported to the annual convention of the American Electric Institute that a number of National Association of

## Sixty years ago this month

### Taken from ORNL "The News" for June-July 1953

- Dr. Eugene Wigner, world noted mathematical physicist and past director of research at ORNL, will return to ORNL as a summer resident consultant.
- Dr. Alexander Zucker of the Electromagnetic Research Division has been invited to present a paper, titled, "Nuclear Reactions Produced by Heavy Ions in the ORNL 63-inch Cyclotron" at the Gordon Research Conference on Nuclear Chemistry.
- The Metallurgy Division's Ceramics Department receives recognition for its role to the AEC Reactor Program. Fundamental is the selection of materials for use in nuclear reactors (e.g., the use of graphite and/or beryllium oxide as a moderator material and Portland cement for shielding).
- ORNL's research director, Alvin Weinberg, spoke before the Joint Committee on Atomic Energy in hearings to consider changes in the Atomic Energy Act of 1946 to encourage industrial nuclear power development.
- The AEC has determined main highways through the Oak Ridge controlled areas can open to the general public without compromising security.—prepared by ORNL History Room volunteers

## From the Lab Director

We were privileged to host Secretary of Energy Ernie Moniz on June 2-3. Secretary Moniz chose Oak Ridge as the site of his first official visit as Secretary, and ORNL was his first destination.

Stops on his ORNL tour included the Spallation Neutron Source, the High Flux Isotope Reactor, the EVEREST visualization lab and the Consortium for Advanced Simulation of Light Water Reactors (CASL), where Secretary Moniz formerly served as the chair of the CASL advisory board.

Ernie, who came to DOE from his faculty position at the Massachusetts Institute of Technology, has been a friend to the national labs for a long time and is closely familiar with the DOE science mission. He was a DOE under secretary in the Clinton administration and is widely known throughout the science and energy community.

The new Energy Secretary had a conference call with the directors of all 17 DOE labs the day after he was sworn in following his unanimous confirmation. He emphasized the importance of the labs in bringing science and engineering to bear on the energy future and national security. With our diverse set of resources, ORNL is particularly well positioned to do the kind of collaborative, multidisciplinary, large-scale science that Secretary Moniz is calling for.

The Secretary was joined on his ORNL visit by Congressman Chuck Fleischmann. Sen. Lamar Alexander also made a brief visit to the Lab to address a meeting of the DOE national lab directors, which coincided with the secretary's visit.

Ramamoorthy Ramesh took the reins as my deputy for science and technology on June 1 and will move his family here in July from Berkeley, Calif. He comes aboard just as Secretary Moniz begins his administration, and I look forward to having Ramesh help us collectively drive the discovery and innovation that are a hallmark of Oak Ridge.

In the community, Team UT-Battelle is again building a home for a needy family with Aid to Distressed Families of Appalachian Counties (ADFAC). Volunteers are needed for this summer's building sessions at 104 Jay Lane, Oak Ridge. You can also donate to the effort through the ADFAC Home Build account at the ORNL Federal Credit Union. For more information on how to volunteer or donate, or contact project captain Ann Weaver, 576-8689, bryantar@ornl.gov, or Leigha Edwards, 241-9309, ledwards@ornl.gov. 🌱

*Thomas Mason*

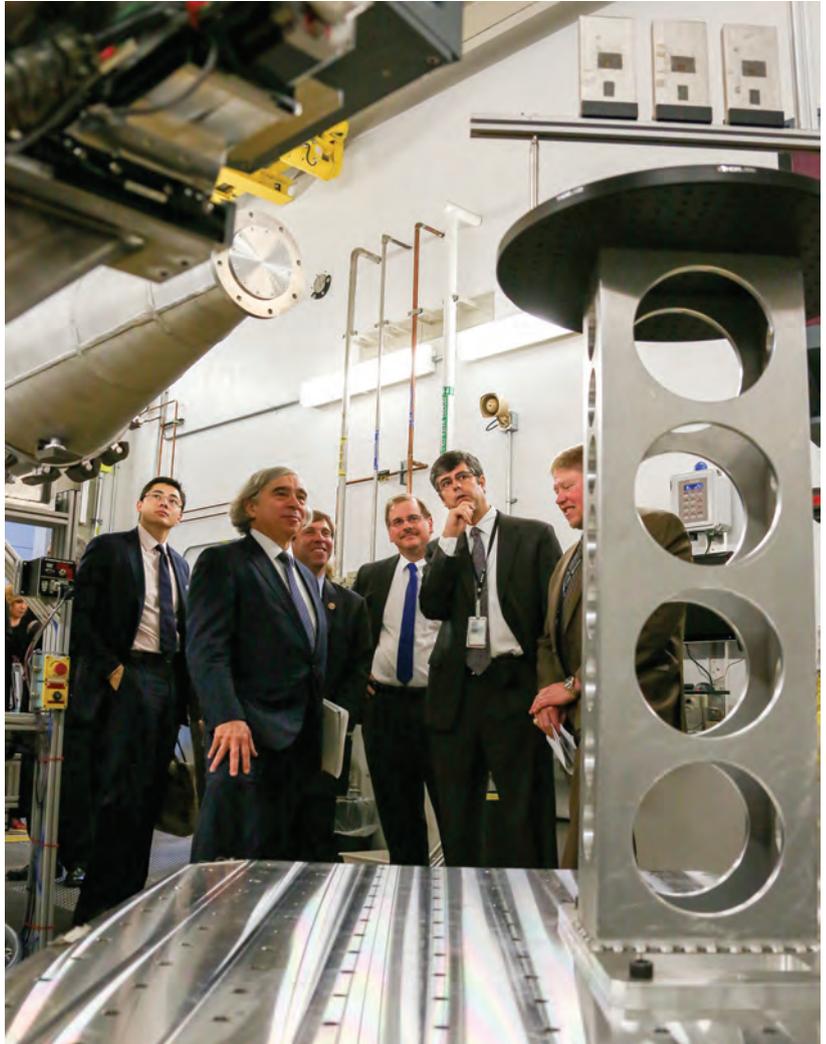
Thom Mason




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Secretary Moniz emphasized the importance of the labs in bringing science and engineering to bear on the energy future and national security.

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*From left, Special Assistant to the Secretary Mark Appleton, Energy Secretary Ernest Moniz, Rep. Chuck Fleischmann, ORNL Site Office Manager Johnny Moore, Lab Director Thom Mason and Neutron Sciences Director Kelly Beierschmitt inspect the VULCAN instrument at the Spallation Neutron Source. (Photo by Jason Richards)*



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Knoxville, TN

## Got neutrons?

**The Spallation Neutron Source “Simulator” exhibit is always a hit with the public.** The neutron sciences exhibit was featured at the Knox County Schools Career Fair held in May at the Expo Center in Knoxville.

(Photo by Genevieve Martin)



## Club ORNL events

**Get the details and latest news online** via <https://info.ornl.gov/sites/clubornl>. Request an XCAMS account, which will allow you to participate in these events or contact Lara James at 865-576-3753 or [jamesla@ornl.gov](mailto:jamesla@ornl.gov).