

**SCIENCE**

## Controlled fires restore vegetation, habitat on Reservation



*Jim Evans of the Tennessee Wildlife Resources Agency, left, supervises as “fire boss” Bruce Miller ignites the front corner of the fields on Freels Bend.*

Approximately 60 acres of Oak Ridge Reservation (ORR) were immersed in flames during a controlled burn this spring.

Oak Ridge Reservation forester Greg Byrd, Jim Evans of the Tennessee Wildlife Resources Agency, and “fire boss” Bruce Miller of the Tennessee Division of Forestry (TDF) organized and led this prescribed burning of fields on Freels Bend on the eastern end of the ORR on March 5.

“The fire returns the nutrients to the soil, and it helps invigorate the plant growth,” said Neil Giffen, ORNL’s natural resources manager who was also present at the burn.

The objective of the burn is to promote native grass restoration, reduce woody plants and nonnative species and to “create wildlife plots designed to attract nuisance Canada Geese away from nearby residential areas,” according to the prescribed burning plan. Some common invasive exotic species include autumn olive, privet, Japanese honeysuckle and fescue grasses, Evans said.

The Freels Bend area of the ORR is laden with fescue, a fodder grass ideal for



*The controlled flames rapidly consume the Freels Bend fields, burning the fescue and young woody trees.*

livestock grazing. In 2000, the reservation began its conversion from hay fields to a wildlife habitat, making fescue irrelevant.

To ensure a successful fire the TDF crafted a burn prescription, which details the necessary conditions for controlled flames, including temperature, relative humidity, wind speed and wind direction. The

document also includes safety considerations and a contingency plan.

The team ignited the backfire on one corner of the field. Then the crew raced to the other end of the field to create

a parallel line of fire, the “fire break.” The two flames from opposite sides of the field met in the middle, intensifying to produce a vast amount of heat.

The reservation is home to a large population of rats and cottontail rabbits. As the flames blazed across the field, some of its inhabitants scurried out of the fire.

Evans said lush green grass would replace the blackened fields within a few weeks.

“Depends on the rain and temperature, but in a week or so things will start turning green,” said Evans. “Within a month, it won’t even look like it was burned.”

Wildlife officials conduct these annual burns with a rotational schedule.

“We burn nearly every year, alternating lower crops with higher crops,” said Byrd, who noted these controlled burns are a common technique used nationwide.

—Lauren Gregg 

“The fire returns the nutrients to the soil, and it helps invigorate the plant growth.”

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## Kibbes travel the USA in their Corvette



Judy and Keith Kibbe in the West during one of their tours.

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“We love the back roads, the mom-and-pop motels and restaurants and the leisurely pace.”

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Remember the early 1960s TV series “Route 66” about two young men traveling across the Western United States in a 1962 Corvette?

This is basically what Oak Ridge retirees Keith and Judy Kibbe have been doing each summer since 2006 in their Corvette. This summer’s trip will be a repeat of several month-long journeys they made over the years.

“We will be seeing a lot of sights in New Mexico, Utah and Colorado, revisiting some of the beautiful national parks,” said Judy, who worked in engineering technology for a number of years at ORNL and the old Oak Ridge Gaseous Diffusion Plant before retiring in the mid-1990s. “We plan to be gone about a month, using as many back roads as we can.”

Keith, who worked as a project manager at all three plants, and Judy travel in a custom-built 2006 Corvette they watched being produced at the Corvette factory in Bowling Green, Ky. Judy’s step-brother also has his special Corvette (same year, same color) and the threesome have traveled several years together with their two sports cars making their way through the country.

The TV series “Route 66,” reflected travels primarily along U.S Highway 66 running from Chicago to Los Angeles. This was in the days before interstate highways were the norm. The Kibbes have traveled the length of the highway still available to motorists.

During their first trip eight years ago, the Kibbes traveled 6,000 miles, but only 150 miles were interstate.

“When we departed, we went through Tennessee on old U.S. 70 instead of I-40,” Judy said. “Doing it that way may make the trip longer, but is more enjoyable. We love the back roads, the mom-and-pop motels and restaurants and the leisurely pace.”

All but two of the Kibbes’ trips were in their ‘06 Corvette. The only exceptions were to Hawaii and Montana. Most of their journeys were westward, but they headed to the Northeast last summer.

“We drove throughout Virginia, Pennsylvania, New York, Massachusetts and on into Maine,” Judy said. “Keith and I are fortunate in that we’ve been able to take these trips during our retirement. We hope we can keep doing these for years to come.”—Fred Strohl 🌿



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## CORRE website updated; same address

The Coalition of Oak Ridge Retired Retired Employees (CORRE) has changed websites, but the web address has not changed.

By clicking onto [www.corre.info](http://www.corre.info), CORRE members can access much information by looking at the items that are posted on the website. This new website is still a work in progress, so if some aspects do not yet appear, keep checking back. Eventually all the content from the prior website will be included in this new one.

CORRE members who are retirees of ORNL are reminded that they can participate in Club ORNL events and discounts. For details on signing up, go online to <http://info.ornl.gov/sites/clubornl> or contact Lara James at 865-576-3753 or [jamesla@ornl.gov](mailto:jamesla@ornl.gov). 🌿



## ORNL's John Wagner receives E.O. Lawrence Award

ORNL researcher John Wagner has been named a 2013 recipient of the Department of Energy's Ernest Orlando Lawrence Award for his work in advancing computer, information and knowledge sciences.

Wagner, a nuclear engineer who serves as national technical director for DOE's Nuclear Fuels Storage and Transportation Planning Project, was recognized for his leadership in the field of computational radiation transport.

A new computational approach developed by Wagner to analyze radiation transport has contributed to advancements in DOE's nuclear energy and national security missions, including efforts in criticality safety, radiation shielding and nuclear reactor analysis.

Wagner's award cites his efforts in the "groundbreaking theory and development of consistent, accurate, and efficient Monte Carlo computational solutions of the Boltzmann transport equation over the complete domain, and for its broad application to complex real world radiation transport problems."—*Bill Cabage* 🌿



Wagner

## 2005 UT-Battelle Scholar Kellen O'Connor still solves problems

When Farragut High School senior Kellen O'Connor was selected as the 2005 UT-Battelle Scholar, he was regarded as an excellent problem solver – especially with regard to fixing computers.

Nine years later, Kellen is solving computer problems for a career as he performs technical support for Trimble Navigation in Knoxville. Surprisingly enough, Kellen's original goal when he entered UT was to go into veterinary medicine before he had a change of heart.

"I learned very early in college that I wanted to teach math," Kellen said. "I did summer internships in computational science at ORNL. I learned math was my thing."

After earning his B.S in math and a master's degree in math education from UT, Kellen secured a teaching position at Hardin Valley Academy in West Knoxville. One of his students was Meredith Graves, who earned the 2013 UT Battelle Scholarship.

Kellen is still teaching, but these days as an instructor teaching night classes at Pellissippi State Technical Community College. During the daytime, Kellen is doing technical support.

"I guess you can say I'm doing all of that computer problem solving and rebuilding that I was doing when I was in high school," Kellen said. "Even though this wasn't what I set out to do career-wise when I started at UT, it has come back around."

Kellen and his wife, Rebecca, have been married three years and were in the process this spring of moving into a new home in West Knoxville. Rebecca is a facilities manager at the UT College of Veterinary Medicine.

While teaching at Hardin Valley, Kellen earned a master's degree in math education from UT. He is now pursuing a second master's in math at UT.

The UT-Battelle Scholarship helped pave the way for Kellen's successful career.

"The scholarship made a tremendous difference to me in achieving my education and reducing a lot of the financial stress associated with college expenses," said Kellen, the son of Dan O'Connor of ORNL's Facilities Management Division. "That's something I've never forgotten."—*Fred Strobl* 🌿



Kellen O'Connor on the beach prior to his wedding in 2011.



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## Service Anniversaries

## March 2013

**40 years:** **George Malcolm Stocks**, Materials Science & Technology; **Phillip Childs**, Energy & Transportation Science; **Della L. Elliott**, Information Technology Services; **Manuel Gillispie**, Communications; **Horace Pratt**, Facilities Management; **Pamela Fleming**, Center for Nanophase Materials Sciences

**35 years:** **Terry Bass**, Logistical & Fabrication Services; **David Vandergriff**, Instrument & Source.

**30 years:** **Donald Butler Jr.**, Oak Ridge Counterintelligence; **Jon Kreykes**, International Security & Analysis

**25 years:** **Lorelei Jacobs**, Research Accelerator; **Doug Rose**, Fusion & Materials for Nuclear Systems; **Richard Kurt Bain**, Business Management Services; **John Ray Stout**, Research Reactors; **Katherine E. Settles**, **Michael Alan Roberts**, **James Michael Dyer**, and **Jonathan Mark Forstrom**, Logistical & Fabrication Services; **Roxanne Annette Raschke**, Environmental Sciences; **Kimberly McMahan**, Nuclear & Radiological Protection; **Darcella Kay Crawford**, Office of Integrated Performance Management; **John James Henry Jr.**, Materials Science & Technology; **Kevin Paul Norris**, Research Accelerator; **Warren Sharp**, Instrument & Source

**20 years:** **Andrew Wereszczak**, Materials Science & Technology; **John Howard Watson**, Laboratory Protection; **Robert Levey**, Health Services; **Thomas Roche**, Research Reactors

## April 2014

**40 years:** **Jo Ann Fitzpatrick**, Acquisition Management Services; **Charles Watson**, Chemical Sciences; **Hendricks Okenell Johnson**, Facilities Management; **Larkee Moore**, Information Technology Services

**35 years:** **Mark P. Ternes** and **Stuart Daw**, Energy & Transportation Science; **Randy Parten**, Materials Science & Technology

**30 years:** **David Bowers**, Logistical & Fabrication Services; **Doug Gasaway** and **Lola Rutherford**, Nuclear Security & Isotope Technology; **Scott Wood**, Information Technology Services; **C. L. Fitzgerald, Jr.** and **Robert Noel Morris**, Fusion & Materials for Nuclear Systems; **Roger Stoller**, Materials Science and Technology; **Soren Sorensen**, Physics

**25 years:** **David Ellis**, Utilities; **Thomas Zacharia**, Office of the Laboratory Director; **Jim Eaton**, Environmental Protection & Waste Systems; **David Renfro**, Research Reactors

## May 2014

**45 years:** **H. L. Hodge**, Logistical & Fabrication Services

**40 years:** **Robert Michael Westfall**, Reactor & Nuclear Systems; **Pamela Vasquez**, Integrated Operations Support; **John Begovich**, Nuclear Security & Isotope Technology; **Ronald Dale Clark**, Information Technology Services

**35 years:** **David Harper**, Materials Science & Technology; **Thomas Bethea**, Laboratory Protection

**30 years:** **Regina Kay Ferrell**, Electrical & Electronics Systems Research

**25 years:** **Lisa Anne Starbuck** and **Patrick Hughes**, Energy & Transportation Science; **David Clarence Cook**, Logistical & Fabrication Services; **Tammy Harrison**, Logistical & Fabrication Services; **Steve Wayne Freels**, Integrated Operations Support; **Paul Hanson**, Environmental Sciences; **Michael Rex Leuze**, Computer Science & Mathematics; **John Cosgrove**, Nuclear Security & Isotope Technology

**20 years:** **Srdjan Simunovic**, Computer Science & Mathematics; **Sheng Dai**, Chemical Sciences; **Lee Ann Hughes**, EESD Safety & Business Operations; **David Bond**, Information Technology Services

## 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).

## ORNL team earns DOE Secretary's Honor Award

An ORNL team has earned the DOE Secretary's Honor Award for its efforts in removing high concentrations of radioactive cesium from DOE's Savannah River site.

The award, presented in April in Washington, D.C., recognizes ORNL working with its counterparts at Savannah River to help develop the Caustic-Side Solvent (CSSX) technology to process cesium from underground waste tanks containing radioactive materials.

The technology enabled the waste material to be moved into a safer and secure storage area. The waste was created from work that took place during the Cold War at Savannah River. Thirty-seven million gallons of the waste have been stored there since the 1950s.

ORNL was recognized for leadership in the project that ran for more than a decade. 🌱

## Decker named Tennessee Guard director of intelligence

**Carla Decker, director of ORNL's Laboratory Protection Division**, has been named director of intelligence (J2) for the Tennessee National Guard.

Decker previously served three years as a brigade commander of the 30th Troop Command, which is one of four brigade commands in the Tennessee Army National Guard. As brigade commander, Decker was responsible for an air cavalry squadron, an airfield operations battalion, a field artillery battalion, the state medical command and a digital liaison detachment.

In her new role, Decker will be responsible for Intelligence activities within the state for both the Tennessee Air and Army National Guard.

"My Guard responsibilities will primarily entail monthly drills at Joint Forces Headquarters in Nashville," Decker said. "I also do a two-week tour sometime during the year. That could be either in Tennessee or anywhere in the world depending on what the circumstances are."

Decker has 28 years of service, including 25 years in the Tennessee National Guard and three in the Army Reserve. 🌿



Col. Carla Decker. (Photo by Curtis Boles)

## SNS sets new daily energy record

**The Spallation Neutron Source, now running routinely at 1.2 megawatts**, set new daily energy records April 13 when it recorded the highest "integrated energy" for 12-hour and 24-hour periods: 14.22 megawatt/hours and 28.43 MWh, respectively.

The theoretical maximum at 1.2 megawatts is 14.40 and 28.80 MWh, respectively, so that was close to peak performance. The new high mark is the result of improvements in a number of accelerator systems including the ion source, proton beam chopping system and the radio-frequency quadrupole.

"Setting records such as this is the culmination of a lot of hard work," said Don Abercrombie, interim director of the Instrument and Source Division of the Neutron Sciences Directorate. "Making it happen uneventfully as part of routine operation on a spring Sunday is even harder."

Users are excited because more power means more neutrons will reach their experiments to make more complete measurements. For example, Garrett Granroth, an SNS scientist developing pulsed magnets, explained that a stable beam with more power per pulse allowed the team of external users to run more configurations during the pulsed magnet experiment that they ran the week before. —Katie Bethea 🌿

## Final spring nature walk planned June 1

**Reptiles and amphibians will be the theme of the final nature walk** of the spring Sunday, June 1.

The three-hour walk will take place in the Solway Bend area and will be conducted by John Byrd of the Clinch River Environmental Studies Organization.

Participants should meet at 1:30 p.m. in the parking lot south of the ORISE building at the intersection of Bethel Valley and Pumphouse roads.

Reservations must be made in advance by noon, Thursday, May 29 by contacting Tracy Clem, 865-574-5151 (bodinetm@ornl.gov). More information is available by contacting Trent Jett at 865-574-9188 (jetttrt@ornl.gov). 🌿

## TVA board member Brown to speak at next Smyser lecture

**TVA board member Marilyn Brown will speak** at the next Dick Smyser Memorial Community Lecture at 5:30 p.m. Thursday, June 26 at the American Museum of Science and Energy, 300 S. Tulane Ave., Oak Ridge.

Formerly of ORNL, Brown is now a professor at Georgia Tech's School of Public Policy in the Ivan Allen College of Liberal Arts. The lecture is sponsored by Friends of ORNL (FORNL).

Friends of ORNL hosts monthly luncheon lectures at the University of Tennessee Outreach Center, 1201 Oak Ridge Tpk., Oak Ridge, by ORNL staff on today's hot research topics during the second Tuesday of each month. Check out the web site for scheduled talks and membership info ([www.fornl.info](http://www.fornl.info)).

FORNL members can also receive a member visitor badge for ORNL, which allows entry to the laboratory campus for seminars and presentations, such as the Wigner Lecture Series held at the SNS auditorium.

# THE NEWS

## OAK RIDGE NATIONAL LABORATORY

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### AEC Approves Fuel For U of M Reactor

The U. S. Atomic Energy Commission has approved the allocation of fissionable material as fuel for a nuclear reactor to be built for the University of Michigan.

The "swimming pool" type reactor will be used for the training of engineers and for research sponsored by the University and by industry. It will be part of the Michigan Memorial-Phoenix Project, which has been established with private endowments for studies of the peacetime implications and applications of atomic energy.

The reactor will be cooled and moderated with ordinary water, and will use enriched uranium fuel. The fuel elements will be suspended in a pool of water sufficiently deep to serve as a shield against the radiation produced by the reactor.

**ORNL To Review**

Oak Ridge National Laboratory will review reactor design and operating plans for the University. A similar "swimming pool" facility, the Bulk Shielding Test Reactor, has been in operation here at the Laboratory since 1952.

Experience with the ORNL "swimming pool" reactor has demonstrated that this type of reactor is safe to operate and easy to maintain.

### Dr. Straub Given Award By Cornell

Dr. Conrad P. Straub, a member of the U. S. Public Health Service assigned to Oak Ridge National Laboratory, was honored last Saturday, June 12, at an alumni breakfast of the Civil Engineering School of Cornell University, Ithaca, N. Y.

The award was the Fuertes Alumni Medal of Cornell, which is given annually by the faculty of the Civil Engineering School to a graduate of that school or to a recipient of a Cornell advanced degree who has written a paper that advances the scientific or practical interest of the profession of civil engineering.

The basis of Dr. Straub's award was an outstanding paper on the treatment and disposal of radioactive wastes. Dr. Straub is a senior sanitary engineer of the Environmental Center of the U. S. Public Health Service assigned to the Health Physics Division at ORNL. He is the author of several other recent papers on radioactive-waste disposal.



C. P. Straub



**TWENTY-ONE AEC FELLOWS** who arrived at the Laboratory last week for a summer of study with the Health Physics Division are pictured above. Front row, left to right: Robert Yoder, Jim Couchman, Dave Goldman, Maria Herndon, Bob Dough, Billy Thomas, and Bob Black. Second row: Howard Borringer, Wendell Corriker, Ernie Ray, Fred Sanders, and Bob Wood. Third row: Raymond Tanner, Leo Caruthers, Harold Woods, Jack Story, and Richard Raridon. Back row: Pat Patton, Ernie Blase, Henry Borella, and Johnny Dunlap.

### AEC Graduate Fellows Arrive at ORNL For Training with Health Physics Division

Twenty-one students who are studying radiological physics (health physics) under the Atomic Energy Commission's program of graduate fellowships arrived at the Laboratory last week for twelve weeks of field training with the Health Physics Division.

Dr. E. E. Anderson, chief of the Education, Training and Consultation Section of the Health Physics Division, will direct their training, which will extend to all areas of health-physics operations at ORNL. This is the sixth class of AEC-sponsored graduate fellows at the Laboratory.

The 21 students, who arrived at ORNL last Tuesday, and their home towns are as follows: Howard S. Barringer, Maiden, N. C.; Robert Black, Leesburg, Ind.; Ernest F. Blase, Cincinnati, O.; Henry M. Borella, Carbondale, Ill.; A. Wendell Carriker, Harvard, Neb.; Leo Thomas Caruthers, Richmond, Va.; James C. Couchman, Knoxville, Iowa; Robert L. Dough, Manteo, N. C.; Johnny Hall Dunlap, La Grange, Ga.; David Tobias Goldman, Brooklyn, N. Y.

Mona M. Herndon, Frankfort, Ky.; William F. Patton, Abingdon, Ky.; Richard Raridon, Ames, Iowa; Ernest Ray, ...

### S. S. Cromer Named Codirector of ANP

Dr. Alvin M. Weinberg, research director of Oak Ridge National Laboratory, has announced that Sylvan S. Cromer, formerly superintendent of the Technical Division of the Carbide gaseous diffusion plant in Oak Ridge, will join the ORNL staff as codirector of the Aircraft Nuclear Propulsion Project.

Mr. Cromer will also become director of the Aircraft Reactor En-



### Biology Division Members Active

Members of the ORNL Biology Division are taking active part in several important activities outside of Oak Ridge. Last week, Dr. Alexander Hollaender, division director, and Dr. S. F. Carson attended the dedication of the new Institution of Microbiology at Rutgers University, New Brunswick, N. J. At the invitation of Dr. S. A. Waksman, they attended the four-day program of lectures, a symposium on "Perspectives and Horizons in Microbiology," and other functions.

Drs. J. N. Dent and T. T. Odell visited Brookhaven National Laboratory last week and attended a symposium on the thyroid.

This week Dr. W. C. Sheppard is in Beaufort, N. C., where he is lecturing in radiation physics at the Duke University Marine Lab-

### New Book Written By Dr. Hollaender

The McGraw-Hill Book Company, of New York City, has announced that Dr. Alexander Hollaender, division director of the ORNL Biology Division, is the author of a new book, "Microbiology of the Thyroid."

### ORNL Man Predicts

Within the next five years more than half of the nation's industries will benefit from use of the peaceful radioactive isotope, according to University of Tennessee graduate student Robert C. Kelly, administrative assistant of the Oak Ridge National Laboratory Materials Chemistry Division.

Kelly, in conducting research for his MS degree in industrial engineering, surveyed 35 firms currently using radioisotopes in their plants or processes. From his study, he concluded that use of the industrial radioisotope will affect a majority of the country's industries within the next few years by simplifying, supplementing, and partially replacing existing processes.

Kelly said that shortage of technicians trained in the use of radioactivity is a "major deterrent" to the rapid development of industrial use of radioisotopes.

## Sixty years ago this quarter

### Taken from ORNL "The News" for Spring of 1954

- Dr. A.S. Householder, director of the ORNL Mathematics Panel, chaired a math symposium sponsored by ORNL and AEC on nonlinear problems. In attendance were some 50 leading mathematicians from colleges, universities and research institutions. Principal speaker was Professor Edward Teller, Berkeley Radiation Laboratory, University of California.
- The radioisotope cesium-137 was separated and purified for the first time. This 2 1/2-year research achievement resulted from the chemical separation of the fission products found in spent fuel. Two pellets were produced containing 1,540 curies of radioactivity, equivalent in radiation energy of more than one pound of radium
- AEC graduate-level fellows arrived at ORNL from Vanderbilt University for field training with the Health Physics Division. Two of the 21 arrivals were our own current ORNL History Room volunteer, Dr. Richard Raridon and his wife, Mona Herndon.
- Several members of ORNL, who belong to the Oak Ridge Radio Operators Club, took an active part in the annual amateur radio operators Field Day. This 24-hour event took place at the home of Dr. E.D. Shipley, assistant research director at ORNL. The importance of the local "hams" operation was to demonstrate the use of emergency communication equipment in the event of major catastrophes that could put ordinary communication facilities out of commission. (Footnote: Dr. Shipley was a family relative of David McVicker, the writer of this "Treasures from the Archives").—prepared by ORNL History Room volunteers

## From the Lab Director

ORNL recently held a reception for its Eugene P. Wigner Fellows. I always make it a point to attend these gatherings because the two-year fellowships represent the most enduring and successful of ORNL's programs for bringing talented early career researchers to the Laboratory.

If you made a list of ORNL's most accomplished and honored researchers since 1976, you would find many of them came to the Lab under the Wigner Fellowship Program. Others have capitalized on their achievements here to build careers outside the Laboratory, which extends ORNL's reach throughout the scientific networks that spark valuable collaborations.

Eugene Wigner is a suitable namesake for these fellowships, because he laid the groundwork for what we now know as Oak Ridge National Laboratory. At the outset of World War II he and fellow Hungarian expatriates Leo Szilard and Edward Teller were instrumental in getting Albert Einstein behind the effort to develop a nuclear weapon before the Nazis, in what would become the Manhattan Project.

Wigner led the theory efforts for the CP-1 reactor at Chicago and the plutonium production pilot at Oak Ridge, which is what we know as the Graphite Reactor. Following the war he was ORNL's first scientific director and drew up the strategic plan for a new concept in research laboratories based on their unique facilities. His concept is pretty much what we know today as a national laboratory.

When the energy crises of the early 1970s resulted in new research missions for ORNL and a surge in hiring, the Lab Director at the time, the late Herman Postma, suggested the Wigner fellowships as a tool for recruiting top scientists to the Laboratory.

With that, I'd like to congratulate our current Wigner fellows and welcome the new ones.

**Vera Bocharova** is in the Chemical Sciences Division working with Alexei Sokolov. She came to the Lab in August 2012.

**Jaswinder Sharma** is in the Energy and Transportation Sciences Division, working with Panos Datskos. He began his fellowship in September 2012.

**Wu Zhou** is in the Materials Sciences and Technology Division, beginning in December 2012. He is working with Matthew Chisholm.

**Daniel Close** is in the Biosciences Division working with David Graham, arriving at ORNL in December 2012.

**Yue Fan** is in the Materials Science and Technology Division working with Malcolm Stocks. He joined the lab in July 2013.

**Tom Berlijn** is in the Computational Science and Mathematics Division working under Bobby Sumpter. He came to the Lab in August 2013.

**Benjamin Doughty** works with Gary Van Berkel in the Chemical Sciences Division. He arrived in September 2013.

**Matthew Green** is in the Physics Division working with David Radford on the Majorana project. He joined the lab in September 2013.

**Travis Williams** is in the Quantum Condensed Matter Division of the Neutron Sciences Directorate, working under Mark Lumsden. He came to the Lab in November 2013.

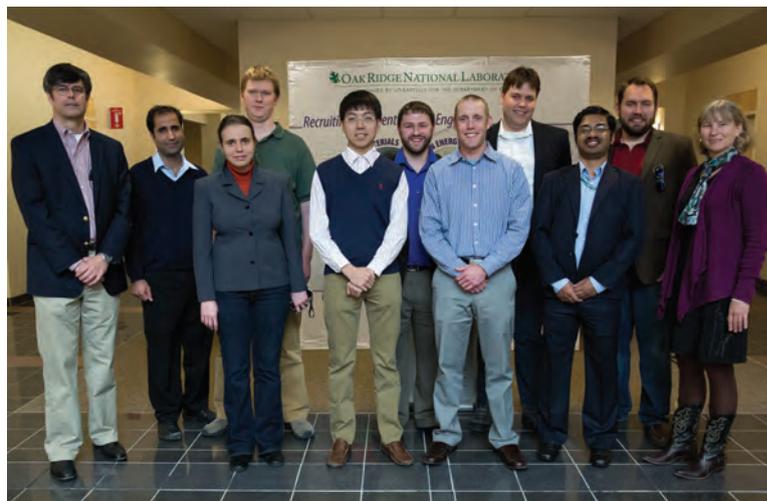
**Michael Naguib** arrived at the Lab in May and is working in the Materials Science and Technology Division with Nancy Dudney.

Other Lab-wide fellowships for early career researchers include the Alvin Weinberg and newly established Liane B. Russell fellowships. Like the Wigner Fellowship, they are offered in multiple disciplines. The Clifford Shull and Alston S. Householder fellowships are specific to neutron science and computational science and mathematics, respectively.

These fellowships represent some of the ways the Laboratory is attracting scientific talent for emerging and evolving missions in the national interest. They also bring fine young people to our local community.



Thom Mason



Pictured at the Eugene P. Wigner Fellows reception are, from left, ORNL Director Thom Mason along with Wigner Fellows Jaswinder Sharma, Vera Bocharova, Tom Berlijn, Yue Fan, Travis William, Dan Close, Benjamin Doughty, Satyabrata Sen and Matthew Green. At right is Virginia Dale of ORNL's Environmental Sciences Division. (Photo by Genevieve Martin)

## Historical profiles featured on ORNL website

ORNL's website has added a new feature on historical profiles.

The first feature is on Mile Leverette who joined ORNL at the very beginning in 1943 and was instrumental from the start at the Graphite Reactor. The feature was written by ORNL retirees Bill Yee and Carolyn Krause.

The Leverett feature and other historical profiles to come in the future can be accessed at: <http://www.ornl.gov/ornl/about-ornl/history-2/profiles>



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## World University Nuclear University group visits Lab

ORNL hosted the **World Nuclear University Summer Institute Alumni** March 31 through April 4, bringing together a select group of future leaders to the ORNL campus. The WNU group was composed of early career nuclear technology standouts from around the world.

Organizer Pat Lynch of the Nonproliferation, Safeguards & Security Division of the Global Security Directorate says attendees of the summer institute, held at Christ Church College at England's Oxford University, represent some of the best in the field. Attendance at the six-week summer institute is awarded on a competitive basis.

Oak Ridge presentations included DOE Assistant Secretary for Nuclear Energy Pete Lyons, World Nuclear University President Patricia Wieland, Nuclear Regulatory Commissioner William Magwood and Department of State Assistant Secretary for International Security and Nonproliferation Thomas Countryman.

In addition to tours of the High Flux Isotope Reactor and the historic Graphite reactor, the ORNL organizers also included training in the full week of sessions, including instrument training at the Lab's Safeguard Laboratory. —*Bill Cabage* 



*Attendees of the World Nuclear Institute receive a HFIR briefing outside the control room by HFIR's David Blanchard and Kevin Smith. (Photo by Jason Richards)*