

**SCIENCE**

## ORNL debuts Titan supercomputer

ORNL has completed the installation of **Titan**, a supercomputer capable of churning through more than 20,000 trillion calculations each second—or 20 petaflops—by employing a family of processors called graphic processing units first created for computer gaming. Titan will be 10 times more powerful than ORNL’s last world-leading system, Jaguar, while overcoming power and space limitations inherent in the previous generation of high-performance computers.


Titan, which is supported by the DOE, will provide unprecedented computing power for research in energy, climate change, efficient engines, materials and other disciplines and pave the way for a wide range of achievements in science and technology.

The Cray XK7 system contains 18,688 nodes, with each holding a 16-core AMD Opteron 6274 processor and an NVIDIA Tesla K20 graphics processing unit (GPU) accelerator. Titan also has more than 700 terabytes of memory. The combination of central processing units, the traditional foundation of high-performance computers, and more recent GPUs will allow Titan to occupy the same space as its Jaguar predecessor while using only marginally more electricity.

“One challenge in supercomputers today is power consumption,” said Jeff Nichols, associate laboratory director for computing and computational sciences. “Combining GPUs and CPUs in a single system requires less power than CPUs alone and is a responsible move toward lowering our carbon footprint. Titan will provide unprecedented computing power for research in energy, climate change, materials and other disciplines to enable scientific leadership.”

Because they handle hundreds of calculations simultaneously, GPUs can go through many more than CPUs in a given time. By relying on its 299,008 CPU cores to guide simulations and allowing its new NVIDIA GPUs to do the heavy lifting, Titan will enable researchers to run scientific calculations with greater speed and accuracy.

“Titan will allow scientists to simulate physical systems more realistically and in far greater detail,” said James Hack, director of ORNL’s National Center for Computational Sciences. “The improvements in simulation fidelity will accelerate progress in a wide range of research areas such as alternative energy and energy efficiency, the identification and development of novel and useful materials and the opportunity for more advanced climate projections.”

Titan will be open to select projects while ORNL and Cray work through the process for final system acceptance. The lion’s share of access to Titan in the coming year will come from the Department of Energy’s Innovative and Novel Computational Impact on Theory and Experiment program, better known as INCITE. —*Leo Williams* 



ORNL is now home to Titan, the world’s most powerful supercomputer for open science with a theoretical peak performance exceeding 20 petaflops (quadrillion calculations per second). (Image: Jason Richards)

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“Titan will provide unprecedented computing power for research in energy, climate change, materials and other disciplines to enable scientific leadership.”

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## Betty Matthews loves to travel



Mount Rushmore is one of many places Betty Matthews and her husband Steve have traveled to during retirement.

**Working at ORNL in some capacity for more than 20 years**, Betty Matthews was used to the daily travel between the laboratory and her home in Lenoir City.

Since her retirement, Betty has traveled much longer distances, with several trips to Europe.

“It seems as though we’ve been all over the place,” Betty said recently while talking about her travels with her husband, Steve. “We’ve been to Italy several times, and we’ve also traveled to Spain, France, Belgium, the Netherlands and Germany.”

Betty’s ORNL career spanned time as a secretary in the Mouse House, computational sciences, and communications and community outreach. Even after retiring in 2000, Betty came back several times as a fill-in secretary for “whoever needed me to help out with things.”

Betty has fond memories of the people she worked with at ORNL – particularly Bill and Liane Russell at the Mouse House.

“I worked with so many talented people, but I had a special bond with the Russells,” Betty said. “They were doing such important research in the world of genetics, and I was fortunate to have been able to be around them when all of that was taking place. I still stay in contact with Liane, and she is still very special to me.”

In the days before Titan, Kraken and other powerful supercomputing systems installed at ORNL over the past decade, Betty was the secretary in the computational sciences area and is proud of the supercomputer heritage that has developed over many years.

“The supercomputer accomplishments in the 1990s and before paved the way for what is there today,” Betty said. “My church group has toured ORNL several times during the past few years. As amazing as what you have there today, you can’t forget the earlier powerful supercomputers and the people who were involved with those systems.”

In addition to traveling and many activities with the Concord United Methodist Church, Betty is determined to keep busy in other ways.

“I served for a time on a local board that oversaw efforts to help prevent domestic violence in Loudon County through a shelter that was established for abused women,” Betty said. “I’ve also worked for a store in Lenoir City operated by Habitat for Humanity.”

Betty also stays physically fit, going to the Y three times a week for water aerobics.

Betty is proud that science served as the backdrop for her career. Prior to coming to ORNL, Betty worked at NASA in Cape Canaveral during the early days of the U.S. space program.

“I experienced the atmosphere of the early years of space exploration, and I later got to experience the atmosphere of all the exciting science at ORNL,” Betty said. “I feel fortunate I have been able to have a small part in all of these important scientific accomplishments over more than 50 years.” —Fred Strohl 🌱

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## Service Anniversaries

## December

**40 years:** **Stephen Kirk Combs**, Fusion Energy

**35 years:** **Douglas Warren Edwards**, Facilities Management; **Patricia K. Lankford**, Biosciences; **Tommy R. Nelson**, Computational Sciences & Engineering; **Gwen T. Scudder**, Legal Dir.

**30 years:** **Roger Allen Hunt**, Utilities; **Debbie D. McCoy**, Computing & Computational Sciences Dir.; **Virginia Louise Lynch**, Accounting; **Jerry G. Arnwine**, Fabrication, Hoisting & Rigging

**25 years:** **Carlton Ray Brittain**, Global Nuclear Security Technology; **R. Wes Wyso**, Measurement Science & Systems Engineering; **Tony E. Haynes**, **Arthur P. Baddorf**, Center for Nanophase Materials Sciences; **Kathy P. Bugbee**, Facilities Development; **Teressa L. McKinney**, Nonproliferation, Safeguards & Security; **Bryan C. Chakoumakos**, Quantum Condensed Matter; **Eric L. Fogel**, **Paul Philip Guertin**, Research Reactors; **Juan J. Carbajo**, Reactor & Nuclear Systems

**20 years:** **Ernie A. Ford**, Contracts; **James Wade**, Energy & Transportation Science; **William Ronnie Cornett**, Logistical Services; **Brian L. Bischoff**, **James Gerald Hansen**, Materials Science & Technology; **Ian G. Gross**, Global Nuclear Security Technology; **J. Shane Tucker**, Accounting; **James Kevin Sellars**, Information Technology Services

## January

**40 years:** **Tommy Clark**, **Terry L. Moore**, Logistical Services; **Paul T. Williams**, Computational Sciences & Engineering; **Larry D. Merryman**, Research Reactors

**35 years:** **Roger A. Kisner**, Measurement Science & Systems Engineering; **Gary Neil Norman**, Fabrication, Hoisting & Rigging; **Ric Hobson**, Fuel Cycle & Isotopes; **D. Tom Rizy**, **Therese K. Stovall**, Energy & Transportation Science

**30 years:** **Bruce Edward Tonn**, Environmental Sciences; **Steffon Craig Riser**, Facilities Management; **John D. Galambos**, Research Accelerator; **Ronald W. Bounds**, Fabrication, Hoisting & Rigging

**25 years:** **Phillip F. Britt**, Chemical Sciences; **Deborah J. Cole**, Information Technology Services; **Bill DeVan**, Research Accelerator; **Eddie A. Bright**, Computational Sciences & Engineering; **Porter D. Bailey**, Nonreactor Nuclear Facilities; **Sonja Poland Crawford**, Facilities Management

**20 years:** **Chris G. Grainger**, Nuclear & Radiological Protection; **Steve Evans Childs**, Environmental Protection & Waste Svstems; **David Eugene Holcomb**, Reactor & Nuclear Systems; **Jeff L. Mellon**, Accounting; **Vincent Joseph Guy**, **David C. Glasgow**, Chemical Sciences; **Chris Tavino**, Facilities Development



## BENEFITS

### Over-age-65 ORNL prescription drug plan info, ID cards sent in November

**Participants in the over-age-65 ORNL Prescription Drug Plan received a notice in October** explaining the ORNL Prescription Drug Plan for 2013. Welcome Kits were mailed in November from Express Scripts. The kits include your new ID card for use beginning in January 2013. Each individual enrolled in the plan should have received a welcome kit with ID card. Your Welcome Kit also includes other important plan benefit materials such as a formulary and a pharmacy directory. Remember, the Center for Medicare Services (CMS) requires that we send you these materials. You do not need to do anything in order to keep your ORNL prescription drug coverage. You are automatically enrolled in the plan.

**Each year ORNL's employee savings program sends out a report to participating members.** The report below provides information for the 2011 calendar year.

#### SUMMARY ANNUAL REPORT FOR SAVINGS PLAN FOR EMPLOYEES AT ORNL

This is a summary of the annual report for the SAVINGS PLAN FOR EMPLOYEES AT ORNL (employer identification number 62-1788235, plan number 002) for the plan year ending 12/31/2011. The annual report has been filed with the Employee Benefits Security Administration, as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### Basic Financial Statement

Benefits under the plan are provided by insurance contracts and a trust fund. Plan expenses were \$60,674,295. These expenses included \$475,232 in administrative expenses and \$60,199,063 in benefits paid to participants and beneficiaries. A total of 5,988 persons were participants in or beneficiaries of the plan at the end of the plan year, although not all of these persons had yet earned the right to receive benefits.

The value of plan assets, after subtracting liabilities of the plan, was \$921,012,159 as of the end of the plan year, compared to \$917,100,865 as of the beginning of the plan year. During the plan year the plan experienced a change in its net assets of \$3,911,294. This change includes unrealized appreciation or depreciation in the value of plan assets; that is, the difference between the value of the plan's assets at the end of the year and the value of the assets at the beginning of the year or the cost of assets acquired during the year. The plan had total income of \$64,585,589, including employer contributions of \$13,478,235, employee contributions of \$38,164,272, and earnings from investments of \$11,709,733.

#### Your Rights to Additional Information

You have the right to receive a copy of the full annual report, or any part thereof, on request. The items listed below are included in that report:

1. An accountant's report.
2. Financial information and information on payments to service providers.
3. Assets held for investment.
4. Insurance information, including sales commissions paid by insurance carriers.
5. Information regarding any common or collective trusts, pooled separate accounts, master trusts or 103-12 investment entities in which the plan participates.

To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator at:

UT-BATTELLE, LLC  
1060 COMMERCE PARK DRIVE  
OAK RIDGE, TN 37830  
PHONE: 865-241-6215

You also have the right to receive from the plan administrator, on request and at no charge, a statement of the assets and liabilities of the plan and accompanying notes, or a statement of income and expenses of the plan and accompanying notes, or both. If you request a copy of the full annual report from the plan administrator, these two statements and accompanying notes will be included as part of that report. The charge to cover copying costs given above does not include a charge for the copying of these portions of the report because these portions are furnished without charge.

You also have the legally protected right to examine the annual report at the main office of the plan: 1060 COMMERCE PARK DRIVE, OAK RIDGE, TN 37830, and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the Department should be addressed to: Public Disclosure Room, Room N-1513, Employee Benefits Security Administration, U.S. Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20210.



## Tennessee Science Bowl calls for volunteers

The Tennessee Science Bowl is scheduled for Feb. 22 at the Hilton Knoxville Airport and for Feb. 23 at Pellissippi State Community College (Blount County Campus). At the two-day event, 48 teams of 4 or 5 high school students from schools across Tennessee will compete for a chance to represent Tennessee at the 2013 National Science Bowl in Washington, DC, April 25-29. The competition is designed to motivate high school students to excel in STEM fields and to pursue careers in these fields.

The Science Bowl depends solely on volunteers to help with registration, team photos, a social activity moderators, scientific judges, rules judges, scorekeepers, timekeepers, civility award judges, runners and crowd control. There will be one volunteer slot on Friday from 2 to 6 p.m. There are 2 time slots on Saturday: between 6:30 a.m. to 1 p.m. or between 6:30 a.m. to 4:30 p.m. Pizza lunch will be provided for all Saturday volunteers.

For more information about volunteering or for the online volunteer form, visit <http://www.ornl.gov/sciencebowl/> and click on the 'Volunteer' tab. If you have questions or need additional information, please contact Martha Hammond, the Science Bowl Coordinator, at [Martha.Hammond@ornl.org](mailto:Martha.Hammond@ornl.org) or call 865-576-2564.

The Tennessee Science Bowl is sponsored by DOE, PSCC, ORAU, ORISE and many other companies and organizations. 🌱

## ORNL's United Way campaign tops \$914,000

ORNL raised more than \$914,000 in its 2012 United Way campaign, which supports charitable agencies throughout the area.

ORNL United Way Campaign Chairman Hurtis Hodges said employees and retirees contributed more than \$800,000 and UT-Battelle, the laboratory's managing contractor, contributed a corporate gift of \$100,000.

"The generosity of ORNL's employees continues to make the laboratory one of the largest United Way contributors in East Tennessee," ORNL Director Thom Mason said.

More than \$25,000 was raised through special events that included a putting challenge, dunking booth, jewelry and book fairs, a cash mob and a silent auction.

This year's campaign focus shifted from concentrating on the total amount donated to increasing employee participation through payroll deduction, Hodges said. The strategy was in response to the loss of United Way givers in last year's Voluntary Separation Program. The strategy worked, as ORNL saw a net gain of more than 300 new staff contributors and 41 new leadership givers, bringing the total number of staff signed up as United Way contributors to 2,004.

"Despite the economic challenges, ORNL still showed an increase in leadership givers and staff contributors," Hodges said. "The increase in staff contributors emphasizes the importance laboratory employees place on the health of our community."

—Jennifer Brouner 🌱

## 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).

- Dec. 2** Lady Vols Basketball vs. North Carolina
- Dec. 8** A Chorus Line at the Tennessee Theatre
- Dec. 15** Dixie Stampede
- Dec. 16** Knoxville Symphony Orchestra/Clayton Christmas Concert
- Dec. 21** Ice Skating at Market Square
- Dec. 29** UT Men's Basketball vs. Xavier
- Dec. 30** Lady Vols Basketball vs. Rutgers



ORNL raised more than \$914,000 during its 2012 United Way campaign, chaired by Hurtis Hodges (center). The agency supports charitable organizations throughout the region. At left is next year's campaign chairwoman, Becky Verastegui. At right is ORNL Director Thom Mason. (Image: Jason Richards)



# 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. 24

OAK RIDGE, TENNESSEE

Friday, December 26, 1952

### Local Seal Sales Hit Record High, With More Coming

Christmas Seal sales in Oak Ridge hit a new high this year, according to a report from the Oak Ridge Tuberculosis Association. On Monday of this week, receipts had reached a total of \$5,165.61, with returns still coming in, Mrs. Irene S. Litzberger, executive director of the association, reported.

This year the TB Association mailed out 9,250 letters with seals enclosed, and more than 3200 have been returned. Booth sales, which closed last Friday, were the highest since 1948, Mrs. Litzberger stated.

Particularly gratifying were the returns from the Oak Ridge school campaign, where penny bangle pins, in the shape of the familiar double-barred cross, netted \$187.58 for the association—another record established in this year's campaign.

Although the annual Christmas Seal sale campaign officially concludes on December 25, returns are credited up until April 1 of the following year. Consequently, Oak Ridgers who have not yet turned in their donations will still be able to have them credited to this year's campaign if the money is turned in by April 1, 1953, Mrs. Litzberger stressed.

### Dr. E. R. Mann to Discuss Lab 'Electronic Simulator'

The Reactor Engineering Seminar to be presented on January 9 will highlight the handiwork of a group of ORNL scientists and engineers. Dr. E. R. Mann, the featured speaker, will discuss the "electronic simulator" developed by ORNL people formerly associated with the NEPA project here.

Dr. Mann's talk will include comparisons with some high-speed computers. The simulator has proved much faster, for some problems, than many of these computers, without loss of essential accuracy. Perhaps the highest praise it has received, according to Dr. Mann, is the demand for copies of the simulator at other installations.

The seminar will be held at 3:00 PM, in the third-floor conference room of Building 9201-3, Y-12.



### Patent Releases By AEC Now Total 517

Description of 26 more patents owned by the United States Government and held by the Atomic Energy Commission have been transmitted to the U. S. Patent Office for registry and listing in the official register of patents.

The Commission will grant non-exclusive, royalty-free licenses on the listed patents, as part of its program to make nonsecret technological information available for use by industry. Commission-held patents and patent applications released for licensing now total 511.

Applicants for licenses may apply to the Chief, Patent Branch, Office of the General Counsel, U.S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title. Copies of the patents may be obtained from the U. S. Patent Office.

### NEBRASKA CLUB PARTY

The East Tennessee chapter of the Nebraska Alumni Association will hold its annual White Elephant Christmas Party at 8:00 PM on Sunday, December 28, at the home of Dr. C. P. Keim, 102 Orchard Lane. Robert L. Knight is slated for the role of Santa Claus. All former residents of the state of Nebraska are invited.

### Technical Meetings

**Analytical Seminar,** December 30 in the conference room of Building 9766 at Y-12. The speakers are D. L. Manning and L. J. Brady, and the subjects of the talks are "An Indirect Method for Determination of Uranium," and "Analysis of Fluoride Salt Mixtures." The meeting time has been scheduled for 1:00 PM.

**Math Panel Seminar.** The Mathematics Panel will hold its next seminar at the close of the Computer Course.

**Reactor Engineering Seminar,** January 9, 1953, in the third-floor conference room of Building 9201-3 at Y-12. The speaker will be Dr. E. R. Mann, ORNL, the subject, "The Electronic Simulator." Time, 3:00 PM.

**Physics Seminar,** January 9, 1953

### Changes Made In Procedure for Transportation

Several new provisions in the procedure for scheduling transportation for official business trips went into effect at the Laboratory last week. The changes were made for purposes of simplification.

Under the new procedure, all requests for transportation on official business trips on or off the area should be made to the Travel and Traffic Department, telephone 6495, except requests on off-shifts, week ends, and holidays which should be directed to Laboratory Shift Supervisor's Office.

### Graduate Program Registration Set For Monday, Jan. 5

Registration for the winter quarter of the University of Tennessee Oak Ridge resident graduate program will take place on Monday, January 5, from 5:00 to 9:00 PM at the ORINS Training Building, directly behind the AEC Administration Building.

During this registration period, faculty advisers will be present to advise and approve the course selections. After January 13, a late-registration fee of \$1.00 will be charged. All Oak Ridge classes will be held in the Institute Training Building.

Winter-quarter course offerings include the following: **Chemical Engineering 656,** Liquid - Liquid Extraction; **Chemistry 512c,** Advanced Organic Chemistry; **Chemistry 523,** Special Analytical Techniques; **Chemistry 542c,** Advanced Physical Chemistry;

**Mathematics 452,** Introduction to Analysis; **Mathematics 562,** Mathematical Methods in Physics; **Mathematics 699b,** Seminar—Geometry; **Metallurgy 592,** Metallurgical Thermodynamics; **Physics 412,** Atomic and Molecular Structure; **Physics 452,** Atomic Physics Laboratory; **Physics 542,** Electromagnetic Theory; **Physics 531,** Advanced Dynamics; **Zoology 422,** General Physiology.

### McGraw-Hill Will Publish

## Sixty years ago this month

### Taken from *The ORNL News* for December 1952

- Shipments of isotopes from ORNL during 1952 almost reached the 11,000 mark. Of the 10,700 radioisotope shipments, iodine-131 and phosphorous-32 were far out front. Other popular radioisotopes included sodium-24, sulfur-35, cobalt-60, strontium-90, iron-55 and -59, and mercury-203.
- On display at ORNL were 10 synthetic elements, all of which had been discovered in the previous 15 years through operations of nuclear chemistry. Of the 10, promethium was discovered in 1945 by J. A. Marinsky and L. E. Glendenin of the Chemistry Division's Hot Research Laboratory Research Group using an ion-exchange separation.
- A special-purpose digital computer originally created at the Nuclear Energy for the Propulsion of Aircraft Project is being reactivated by the ORNL Mathematics Panel. The digital machine is capable of the solution of systems of equations and matrices of the order of 300 variables.—prepared by ORNL History Room volunteers



REALLY IN THE MOOD were the many Laboratory lads and lassies who attended ORNL Holiday Dance at the Oak Terrace. At the left are shown some of the fun in action. The other two groups are having just as much fun in a more relaxed center, around table, are John Packard, Mrs. David Davison, Dave Davison, and Mrs.



## From the Lab Director

The Lab has had some notable recent successes in recent months that I want to update you about as we approach a new year. Here are some highlights I think are particularly important.

Congratulations are due to retired Corporate Fellow Richard Haire, who has been named winner of the American Chemical Society's Glenn Seaborg Award for his singular achievements in working with transplutonium elements; to John Wagner, who has been elected a Fellow of the American Nuclear Society; and to Jeff Binder, who has been named Associate Laboratory Director for Nuclear Science and Engineering. Leigha Edwards also was honored at the YWCA Tribute to Women celebration for her leadership in the Oak Ridge community.

We honored our two newest UT-Battelle Corporate Fellows – Brian Sales and Paul Hanson – at a recent dinner. Brian was honored for his leadership in the discovery, synthesis, and research and development of new materials for advanced energy technologies, particularly thermoelectric materials. Paul was honored for his studies of how energy use affects the climate and physiology, growth and biogeochemical cycles of North American forest ecosystems.

I also joined representatives of Team UT-Battelle to dedicate the house constructed across from Robertsville Middle School to mark the 25th anniversary of Aid to Dependent Families of Appalachian Counties. While a \$10,000 contribution from UT-Battelle helped to move the project along, Team UT-Battelle's 78 volunteers and 950 hours of labor made the home a reality for a young, expectant mother. Thanks to the volunteers and to Ann Weaver, who coordinated the effort.

Finally, we welcomed two superstars to ORNL to speak with staff in September: former astronaut Bernard Harris and Olympic gold-medal swimmer Davis Tarwater.

Dr. Harris was here to promote science, technology, engineering and math (STEM) education. In addition to small-group meetings, he gave a terrific presentation in the JICS auditorium about his work on the Space Shuttle and International Space Station, including a description of what it was like to walk in space. He was accompanied by ORNL staffers Trent Nichols and April McMillan, who are helping area Boy Scouts pilot a STEM program. UT-Battelle this summer made the first donation in a \$150,000 commitment for STEM-related improvements to the local Boy Scout summer camp, and the STEM program being developed with help from Trent and April could have national impact.

Davis Tarwater offered the keynote at our annual breakfast for the United Way campaign's leadership givers. He explained that support from the communities where he trained was essential in helping him reach the pinnacle of his sport, and he credited ORNL for its strong support of United Way agencies. Thanks to United Way campaign chair Hurtis Hodges and co-chair Becky Verastegui and their team for a successful drive that raised more than \$900,000 for worthy community causes. Because we lost so many contributors during last year's voluntary separations, this year's emphasis was to increase participation, and the strategy worked. More than 300 more staffers signed up for payroll deduction, a roughly 20 percent increase. It's great to see our Lab staff pick up the baton to continue ORNL's strong tradition of giving to those less fortunate in our community.

*Thomas Mason*

Thom Mason




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“It’s great to see our Lab staff pick up the baton to continue ORNL’s strong tradition of giving to those less fortunate in our community.”

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Former astronaut Dr. Bernard Harris spoke at ORNL about support for new STEM-focused initiatives with the Boy Scouts of America. (Photo: Jason Richards)



United Way Campaign chair Hurtis Hodges (left) finished the 2012 drive with a special guest, Olympic gold-medal swimmer Davis Tarwater. (Photo: Jason Richards)



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## Historic holiday chow down

Fried chicken and pie were on the menu at this holiday lunch for ORNL millwrights and carpenters, circa 1952.

