

Y-12 hosts 100th IAEA inspection

By Bill Wilburn

Y-12 hosted its 100th inspection by the International Atomic Energy Agency on April 7. The inspections are part of the United States' commitment to Article VI of the Nuclear Nonproliferation Treaty that was entered into by the United States in 1970. Y-12 has been hosting monthly inspections by IAEA since 1994.

"Y-12's job from the very beginning was to protect America's future, and we've been doing that for 60 years," said Dennis Ruddy, president and general manager. "It is essential that the United States and we at Y-12 set an example for the entire world by taking all steps available to support the critical work that IAEA performs."

Bill Brumley, manager of the National Nuclear Security Administration's Y-12 Site Office, said, "We take our commitment to these inspections very seriously at Y-12 as marked by our 100th inspection. The IAEA serves an essential role in protecting global security, and we support them in this capacity."

Upon completing Y-12's first inspection in 1994, IAEA inspectors commented that never before had they verified so much material of such high strategic value, in such a short amount of time, with such a high degree of accuracy, as they did at the Y-12 facility.



In commemoration of the 100th inspection of Y-12 by the International Atomic Energy Agency, the U.S. Department of Energy presented plaques to (from left) Jean-Ives Lefebvre, IAEA inspector, Bill Brumley, Y-12 Site Office manager, Dennis Ruddy, BWXT Y-12 president and general manager, and Ok-Seok Seo, IAEA inspector.

Care Package Project supports U.S. troops



Ala Montgomery (left), president of the Y-12 Employees' Society, solicits donations for U.S. troops from Steve Cook and Sue McKenzie.

In April the Y-12 Care Package Project brought in more than \$8,000 that will be used to purchase much-needed items for our troops.

The Pentagon has sanctioned some creative ways to support our troops without unnecessarily adding to the mail congestion. Two major efforts that the military has encouraged are Operation Uplink and Operation United Service Organizations Care Package.

Operation Uplink is a unique program that keeps military personnel and hospitalized veterans in touch with their families and loved ones by providing them with a free phone card. Using contributions from supporters, Operation Uplink purchases phone cards and distributes them to servicemen and women who are separated from those they care about. For more information, visit www.operationuplink.org.

USO is offering a unique way for individuals and corporations to let our nation's defenders know we haven't forgotten them. Operation USO Care Package, initiated by the USO of Metropolitan Washington, enables individuals to financially support care packages that will be delivered to service members en route to overseas destinations. A contribution of \$25 will purchase one care package. Check donations can be sent to USO—Operation USO Care Package, c/o Pentagon Federal Credit Union, P.O. Box 19221, Arlington, VA 22320-9998.

Y-12 employee goes above and beyond to promote safety

Charlotte Brown has worked at Y-12 for 22 years. During her tenure, she has served as a safety coordinator and has created many presentations on safety for her department. Drawing upon that experience, she has created a safety awareness poster and several safety puzzles to contribute to the Environment, Safety and Health division's effort to communicate safety on a Complex-wide basis.

"Why are University of Tennessee fans so committed and supportive of the Vols? I believe it's because they are constantly reminded by posters, the media and fans' personal involvement. Keeping our work environment safe follows the same principle—we are continually reminded and made aware

of potential safety hazards by posters, ISM [Integrated Safety Management] functions, discussions of safety topics in staff meetings, billboards and personal responsibility and involvement," Brown stated in a recent discussion.

Brown is truly an inspiration to her coworkers and to Y-12. We can each follow her example and take the initiative to promote safety in our workplace.



BWXT Y-12 makes donation to Keystone Adult Program

Dennis Ruddy, president and general manager, chats with Marguerite Gerwitz, a participant in the Keystone Adult Program. BWXT Y-12 recently made a \$2,500 donation to the Keystone program. Keystone Elder Day Center offers a unique service in Anderson County with its structured daytime program for the elderly in need of care because of either physical or mental impairments.

Way to go!

Recently, Debbie Hunter (bottom left) and Kathy Szymanski of Safeguards and Security were recognized by U.S. Department of Energy Headquarters for their contributions in support of National Nuclear Security Administration and DOE initiatives. Hunter, who provided logistical support to the NNSA Iterative Site Analysis planning team, was recognized for going "above and beyond the call of duty." Szymanski participated in DOE's Independent Oversight Augmentee Program for the inspection of the Savannah River Site Protective Force Program. Szymanski was recognized for her "extensive knowledge of protective force training, operations and duty performance." Presenting the letters of recognition are Bill Brumley (top left), Y-12 Site Office manager, and Dennis Ruddy, BWXT Y-12 president and general manager.



Day of volunteering planned

BWXT Y-12 is planning a Day of Caring on Saturday, June 21. This day will be devoted to making a difference in the community. Please mark this day on your calendar and plan to make it a family event. BWXT Y-12 strives to be a good corporate citizen through both our Corporate Contributions program and the involvement of Y-12 employees in civic, health, human services, educational and cultural programs.

BWXT Y-12 contributes more than \$350,000 annually to various local civic and community organizations. The company is also a strong supporter of diversity programs, including minority and youth organizations as well as work with the elderly and individuals with disabilities. BWXT Y-12 also provides significant funding for college scholarship programs.

Y-12 employees have a long history of volunteering their time and energy to improve their communities. With more than 4,700 employees, our impact is immense. Our employees serve in local government; as board members of nonprofit agencies; as mentors, tutors, coaches and scout-masters for young people; and as coordinators and participants in several community projects.

Although we may never see how our hard work helps these organizations and the community, Y-12 employees are making a difference, and that is what counts. In our work and our personal lives, if we each work every day to improve one thing, there is no limit to the impact we can make in our local communities.

More details will follow, so check YSource and the BWXT YTimes in the next few weeks for more information regarding this important community event.

Horning promotes EFCOG participation

By Beth Eckerman

Engineering Division Manager Pam Horning was recently elected as a member of the Energy Facility Contractors Group's Executive Council. A volunteer organization directed by senior-level executives from U.S. Department of Energy contractors, EFCOG is sustained by working-level personnel from member contractors and supported and funded by DOE. The organization promotes a professional and cooperative relationship with DOE and other groups active in the quest for operational excellence.

"I champion EFCOG's objectives and support the participation of Y-12 employees in EFCOG working groups," Horning said. "I look forward to advancing Y-12's commitment to EFCOG."

EFCOG was formed in 1991 by DOE contractors who decided to improve cost-effectiveness through collaboration. EFCOG promotes, coordinates and facilitates the active exchange of information, including lessons learned, best management practices, industry benchmarks/standards, appraisal findings/ resolutions, advances in technical and managerial areas and new ideas/practices.

Details regarding each of the eight EFCOG working groups—Acquisition Management, Energy Efficiency, Engineering Standards, Information Management, Integrated Safety Management, Maintenance, Price-Anderson and Safety Analysis—and further information can be found at the EFCOG Web site (<http://www.efcog.org/default.htm>).



Pam Horning, Engineering division manager

Y-12 turns a triple play in safety

By Bill Wilburn

Y-12 has received three national awards for its achievements in worker safety.

The National Safety Council has awarded the company its Green Cross for Safety Excellence Achievement in recognition of its outstanding effort in occupational safety performance and the Certificate of Merit for Outstanding Safety Practices for its 2002 Safety Exposition to promote the health and safety of employees

both at home and at work. Y-12 also received the 2003 Significant Improvement in Safety Performance Award.

Commenting on the awards, Dennis Ruddy, president and general manager of BWXT Y-12, said, "These national awards recognize not only the improvements that Y-12 has made in its worker safety programs, but also recognize the commitment of BWXT Y-12's management team and the National Nuclear

Security Administration's Y-12 Site Office to continued improvements in safety."

In its award letter, the National Safety Council noted that Y-12 had significantly reduced its total accident rate to less than 20 percent of the industry's average. The awards also noted that Y-12 achieved a significant reduction in the number of injuries and illnesses that resulted in days away from work in 2002.

In calendar year 2001 there were 43 injuries or illnesses that resulted in days away from work. In calendar year 2002 that number was reduced by nearly half, from 43 down to 23.

The third Y-12 Safety Expo, an annual event that earned Y-12 one of the National Safety Council awards, will be held at Oak Ridge Mall on July 30.

Y-12 demonstrates future arms control monitoring methodology

By Beth Eckerman

While the Y-12 National Security Complex recently celebrated its 100th inspection by the International Atomic Energy Agency on the west side of the Complex, east-side engineers were demonstrating a new approach to Y-12's commitment to international safeguards.

Technology Development recently hosted a demonstration for the Defense Threat Reduction Agency on how to provide "chain-of-custody" monitoring from the moment when a weapon is declared a treaty item through component dismantlement to the long-term storage of the weapon components. A technical team from Y-12, Pantex and Sandia National Laboratory exhibited a process that could be used for future arms control agreements.

"We need to prove to inspectors with a high level of confidence that we are doing what we said we'd do and not diverting

or substituting items or materials," explained Chris Pickett, head of Y-12's Sensor Systems group.

"The project's goal is to show that item accountability can be maintained with a high level of confidence throughout this process," said Dusty Rhoades from SNL. Last month's event at Y-12 showed the handoff—a container arrived from Pantex, was continuously monitored during transportation via SNL's T-1 seal system and entered Y-12's ReflectoActive seal system for accountability during storage.

These compatible systems allow inspectors to remotely monitor storage sites from anywhere in the world, perhaps reducing the frequency of inspections and thereby saving time and money for sites and inspectors. It could potentially enhance inspections, but is not meant to replace them.

Six Sigma in action

Six Sigma Blackbelt Melissa Portwood headed up the following Process Improvement Project during her certification training to improve delivery times and the cost-effectiveness of allocated desktop personal computers from the Corporate Information Office. The original cycle time to receive these PCs into the Property Management System was more than 30 days. Through this Six Sigma PIP, the cycle time has been streamlined to an average of 10 days.

PIP title

Allocated Desktop PC Process Cycle Time

PIP team

Champion, George Dailey; Process Owner, Kathy Smith; Black Belt, Melissa Portwood, Yellow Belt, Dwain Coppenger; Team members, Wayne Carlton, Wayne Carpenter, Ron Cox, Steve Ellis, Jill Jarnigan, Richard Lovegrove, Steve McFarland and Randy Palmer.

Measure

From the time a purchase order was placed for an allocated desktop PC, the approval, vendor delivery, tagging, maintenance delivery, installation and end-user acceptance of custodianship averaged 31 business days. The goal was to reduce this process cycle time by 70 percent to 10 business days.

Analyze

Through analysis the team found the following factors affected the cycle time:

- vendor,
- size of order,

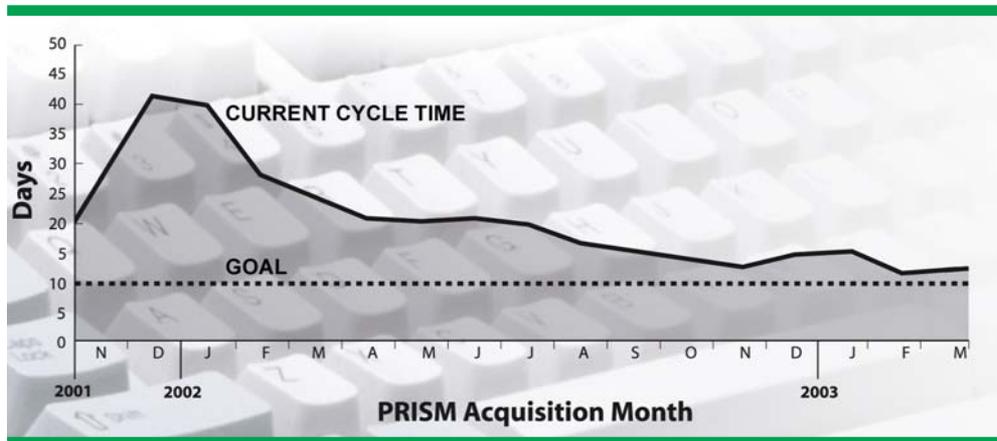
- scheduling delivery to end user and
- user acceptance of the PC in PRISM.

Improve

The team identified the following improvement actions:

- changing the vendor to meet delivery schedules,
- revising ordering practices (staggered schedules),
- limiting ordering of allocated desktop PCs to Desktop Computing Resource Management Committee representatives,
- scheduling delivery and installation with the end user and
- removing the end user from the PRISM custodianship process.

Control



Allocated desktop PC process

Cost avoidance

The cost avoidance for this PIP is \$701,000 through fiscal 2005, assuming an annual allocation of 600 PCs (fiscal 2002 allocation).

W87 LEP helps keep Y-12 in business

By Patrick McCoy

The W87 Life Extension Program is the first major weapon system refurbishment since the 1980s.

Tom Fisher, W87 program manager for Directed Stockpile Work said, "The W87, as is the case with every other weapon in the stockpile, has important components made at Y-12. And, as a complex precision machine, it must undergo periodic surveillance and maintenance to keep it in optimum working condition."

An LEP, like the W87, results from findings and observations made during routine S&M activities and may involve modifications to one or more components to enhance safety and extend the weapon system's "shelf life."

In addition to introducing new technologies for the W87 LEP, required machine tools and material processes were restarted after almost a decade of disuse. Further, new requirements for electronically capturing manufacturing and inspection data to support certification without nuclear testing launched an effort to network machine tools on the factory floor. This secure network is being expanded under the auspices of the Stockpile Readiness Campaign. SRC also is including electronic data capture capabilities among its criteria in selecting and deploying new equipment and technologies.

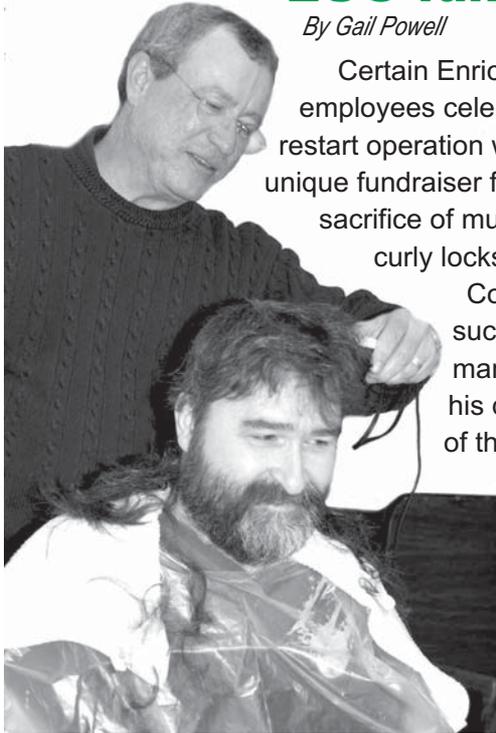
The Peacekeeper land-based, intercontinental ballistic missile carries the W87 warhead, one of the principal weapons in the U.S. nuclear weapons stockpile. The Peacekeeper came into service in the 1970s, and its warhead was one of the last "new" designs developed by U.S. Department of Energy design agency physicists.



The Peacekeeper missile (above) carries the W87 warhead. Y-12 launched the First Production Unit of the W87 LEP in 1998 and will complete the program, on schedule and within budget, in 2004. (U.S. Air Force photo)

EUO fundraiser clips managers

By Gail Powell



Mac Hogle snips Gary Lovelace's curly locks as part of EUO's fundraising efforts.

Certain Enriched Uranium Operations employees celebrated the wet chemistry restart operation with a generous and unique fundraiser for a Y-12-er's son—the sacrifice of much-cherished long and curly locks.

Contingent on the restart success was a certain manager's vow to sacrifice his dark curls "for the good of the group," particularly for Scott Waller, the son of EUO chemical operator Frank Waller. Scott has cystic fibrosis and needs a double lung transplant that will cost about \$100,000. EUO personnel have been

raising funds for several months since hearing Frank Waller's news of his son's necessary operation.

At a recent all-hands meeting, former EUO Manager Jimmy Stone was the center of attention. From the employees who contributed \$10, one name was drawn, and Stone's hair was spray dyed in four wild colors—green, blue, red, and yellow—which he wore for a day.

Next the focus shifted to the main attraction, Gary Lovelace, Readiness Assurance manager, with his distinctive and much-admired dark shaggy locks and bushy beard. From the \$100 donors, two were chosen—one to shave Lovelace's hair and one to shave his beard. After the clipping, "Lockless Lovelace" mentioned that his new "Marine" hairdo (compliments of Mac Hogle, the lucky barber) had not been seen by anyone in decades. Clearly, it was time.

The Lovelace and Stone hair event yielded \$2,195 for Scott Waller's transplant, with a grand total of almost \$8,000 from EUO alone.

If you would like to donate to the Waller family, visit <http://www.transplantfund.org>.

EUO training simulates processes, reduces risks

By Heidi Spurling

Killing two birds with one stone—that adage rings true for chemical operators in Enriched Uranium Operations. With the in-house development of computer simulation training, EUO is taking care of two issues with one solution.

The dilemma was to provide on-the-job training while minimizing the hazards associated with training on actual process equipment. The solution—simulate the processes.

With some innovation, perseverance and talent, Eddie Murphree and Don Gray (software analysts), Don McGuire and Betsy Crawford (training specialists) and Kenny Collier (chemical recovery manager) were able to acquire funding, buy equipment, define training requirements and develop software applications that model wet chemistry processes.

Normal/abnormal operations

Until now, chemical operators were expected to anticipate normal and abnormal conditions of a process they had never run using equipment they could not actually operate. Using the computer simulation system, chemical operators gain hands-on, real-time experience with normal and abnormal operations.

"The most difficult part was making the system react as a live system, but not too difficult for the trainer to add disruptions to challenge the operator's ability," said Gray.

Spare equipment/practice scenarios

Collier said that the trainer station also provides spare process equipment in the event of equipment failure, thus maintaining operations while awaiting parts/equipment. Moreover, the trainer station provides operators with a variety of practice scenarios while they are awaiting necessary clearances.

BWX TYmes



Larry Clements (left), a Manufacturing trainer, and Mike McFarland (pointing), a Manufacturing supervisor, provide real-time feedback while chemical operators Wanda Gheen, Sid Thurmer and Larry Lawson train on EUO's computer simulation system. The various practice scenarios allow users to respond to normal and abnormal operations outside of the production area.

System expansion

The system supports three wet chemistry processes, but Collier noted that plans are to expand the system and train additional operators on new processes/equipment.

This is the first simulator to be used in EUO, but Crawford is "hopeful that this is only the beginning." Murphree agrees, noting that "suggestions from operators using the system will provide new operators with a much-improved training device."

Let's do lunch

A. C. Hollins, division manager of Facilities, Infrastructure and Services, recently began a new program called "Let's Do Lunch." Employees from each organization within FI&S are invited to join A. C. for lunch. Russ Cochran, deputy division manager, and James (Buddy) Conner, deputy general manager, usually join the mix.

These lunches are intended to be a casual, fun way for leadership and employees to get to know each other better, to share ideas and to exchange thoughts about issues affecting the company and its employees. There are no overheads or presentations—just friendly conversation among division members about issues of interest.

The plan is for all employees to have an opportunity to attend these lunches. For information about future lunches, contact Linda Caldwell at 574-8745.



How can employees find out which portals are closed at any given time?

Go to the following URL to review:
<http://www-internal1.y12.doe.gov/scripts/websource/maint/ReviewAnnounce.cfm?ID=269>

Login scripts sink passwords

Don't save passwords! Several Web applications, such as APlus, require you to log in. The login sequence may then ask you if you want to save the password for future logins. BWXT Y-12's password policy strictly prohibits saving passwords to a login file. If your password is located in a file on your computer, another person could access the file, thus compromising your password.



If your password is saved in any login script, call the Computer HelpLine (574-4000) immediately and tell them your password may have been compromised and you need to change it.

Service Anniversaries May

52 years

Manufacturing: James E. Thompson Jr.

42 years

Engineering: Leonard A. Abbatiello

40 years

Engineering: James P. Kois

35 years

Manufacturing: Gary E. Jones

30 years

Safeguards and Security: Robert L. Walker

25 years

Administration and Purchasing: Karen M. Dobbs, Robert G. Neal, Cynthia A. Serbin, Michael D. Thompson

Engineering: William R. Brock, Gregory S. Smith

Environment, Safety and Health: Ivy M. Lalonde

Facilities, Infrastructure and Services: Lowell T. Allison, Mary C. Brewer, Frank A. Cappiello Jr., Jerry L. Foster, Carroll W. Howard, William E. Johnson, Charles D. McFalls, Taalib-Din Muhammad, Jerry H. Nokes, Gary K. Parks

Manufacturing: William G. Arnwine Jr., Randy R. Boone, Kenneth P. Brown, Tony H. Dutton, Carolyn S. Fox, Emma M. Jordan, Michael N. Malcolm, Barbara N. Massengale, James A. Vermillion, Stephen H. Young

Quality Assurance: Ethel E. Dukes, John T. Keylon

Safeguards and Security: Sharon S. Redmon

20 years

Engineering: Anita L. Glover, Peter E. McKenzie, Lisa M. Thompson

Environment, Safety and Health: Gwendolyn T. Eagle, Brian D. Puett

Facilities, Infrastructure and Services: Douglas R. Brannon, Everette R. Mallicoat, Virgil E. Phillips, Florence J. Wilson

Safeguards and Security: Bud Hockett

DOE public tour resumes

Beginning May 16, the U.S. Department of Energy Oak Ridge Facilities Public Tour will be available Tuesday through Friday from the American Museum of Science and Energy from noon–2:30 p.m. Participants may sign up at AMSE from 9 a.m. to noon daily. Admission is \$2 per person. For more information, contact Jane Miller at 241-3421.



The Anderson County March of Dimes WalkAmerica, held April 12, raised a total of \$39K. The BWXT Y-12/Atomic Trades and Labor Council team raised \$6K, giving the team a second-place finish. The March of Dimes WalkAmerica has been raising funds for more than 30 years to support research and programs that give babies born prematurely or with birth defects a fighting chance at life.

Y-12 hosts readiness workshop

Representatives from BWX Technologies, Bechtel, the National Nuclear Security Administration, the Defense Nuclear Facilities Safety Board and other U.S. Department of Energy sites participated in the third in a series of BWXT/Bechtel-sponsored readiness process workshops at the Y-12 National Security Complex in May.

The workshop focused on exchanging information on individual site readiness process lessons learned, following up on items from the previous two workshops and determining a path forward to formalize a process for corporate involvement in contractor readiness evaluations.

The first readiness workshop, held in February 2002, marked the first time representatives from the various organizations and sites met to discuss ways to improve communications, share lessons learned and identify areas for joint initiatives across the DOE complex.

The June 2002 workshop looked at readiness process training requirements and the benefits of line management's conducting the management self-assessment during the readiness preparation period.

Employees' children get a peek behind the fence



Jared Smith, the son of Rosanne Smith of Y-12 Development, tries out a glovebox at the American Museum of Science and Energy during "Bring Our Daughters and Sons to Work Day."

Nix named 'Administrative Professional of the Year'

Joy Nix recently received the "Administrative Professional of the Year" award presented by the National Management Association's Oak Ridge Reservation Chapter.

Nix is an administrative professional in the Proliferation Threat Assessments and Sensitive Compartmented Information Facility organization. The organization's manager, Burt Tackaberry, nominated her for the award. "Ms. Joy Nix exemplifies all the ideals one looks for in an administrative professional. Her dedication, commitment, expertise and interpersonal skills set the example for all to follow. She truly represents her profession well and with style," he said.

Nix recently celebrated 20 years of service to Oak Ridge National Laboratory and Y-12 and has risen through the ranks. When she took her first job at ORNL, she did not know how to type but taught herself during lunch breaks. Her initiative, dedication to excellence and professionalism have served her well as she supported four divisions in various capacities.



Joy Nix recently was named "Administrative Professional of the Year" by the Oak Ridge Reservation Chapter of the National Management Association. Presenting the award are Y-12's Burt Tackaberry (left), who nominated Nix, and Y-12's Mike Shepherd, NMA Oak Ridge chapter's president.

The dark side of messaging

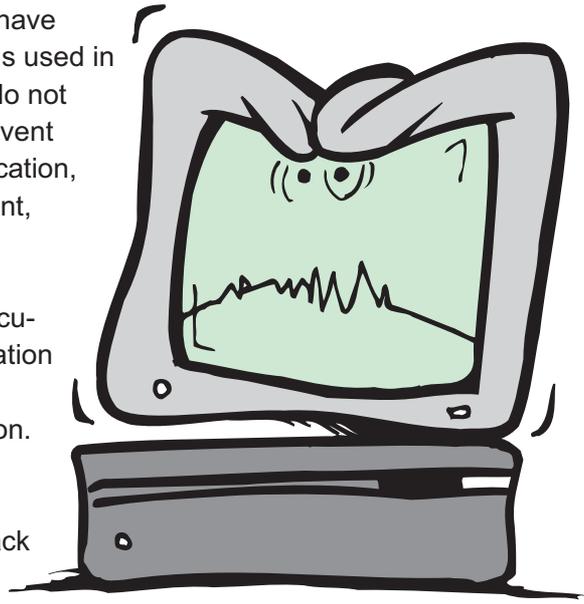
Nearly 95 percent of large U.S. corporations have adopted policies intended to govern how e-mail is used in the office. Unfortunately, most of these policies do not articulate a workplace "netiquette" that could prevent more subtle forms of damaging e-mail communication, the kinds of messages that create embarrassment, undermine teamwork and breed worry.

According to researchers, many workers use e-mail improperly. The biggest mistake both executives and staff make is trying to replace conversation with e-mail.

E-mail should not be thought of as communication. It is only a tool for broadcasting information or scheduling. Real communication involves vocal nuances and verbal as well as nonverbal feedback from the listener.

Users should also remember that e-mail can escalate ill feelings faster than face-to-face communication. The technology acts as a crutch for introverts and those normally afraid of confrontation. It also lends itself to venting anger. Research has shown that people will write things in an e-mail message that they would never say directly to someone.

Don't try to negotiate by e-mail. Research indicates that 50 percent of electronic negotiations end in an impasse, whereas 81 percent of face-to-face negotiations reach a resolution.



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-adapted from BusinessWeek

years ago
60

All Oak Ridge residents had to be badged. A young Oak Ridger receives his new identification badge from Manhattan Project Military Police Officers.



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