

NUCLEAR DIVISION NEWS

A Newspaper for the Employees of the Nuclear Division, Union Carbide Corporation

Volume 14/Number 8

April 21, 1983

UNION
CARBIDE

Twenty-seven organizations express interest

Request for proposals issued by DOE

DOE's Oak Ridge Operations has issued a request for proposal (RFP) inviting proposals for the management, operation and maintenance of the four facilities located in Oak Ridge and Paducah.

DOE expects to execute a definitive contract on April 1, 1984, for operation of ORGDP, the Y-12 Plant, ORNL and the Paducah Gaseous Diffusion Plant. The contract will extend for an initial period through September 30, 1989, with an option to extend for five additional years.

The RFP issued by DOE stipulates that proposals must be submitted to Oak Ridge Operations by 5 p.m. on August 5, 1983.

RFP information

A total of 80 organizations have requested and are being sent a copy of the 276-page RFP, which contains information on the nature of the work, qualification and evaluation criteria, representations and certifications, instructions for preparing proposals and a copy of the proposed contract document.

DOE expects to select a new contractor organization by December 1983. There will be a 90-day phase-in period, from January 1, 1984, through March 31, 1984, to provide the new contractor organization opportunity to

relocate any new personnel to Oak Ridge and complete any administrative matters prior to April 1, 1984. A separate, short-term contract will be negotiated for this 90-day period.

For the period April 1, 1984, through September 30, 1984, the new contract will be on a cost-plus-fixed-fee basis. Subsequent to October 1, 1984, the contract will be on a cost-plus-award-fee basis.

Unclassified conference

DOE has scheduled an unclassified preproposal conference in Oak Ridge on May 24, 1983, in the main auditorium of the American Museum of Science and Energy. The purpose of the conference will be to provide those organizations intending to submit a proposal with an opportunity to raise questions regarding the RFP. Organizations planning to attend the conference should submit in writing by May 13 a list of the names of no more than six individuals who will attend the conference.

A classified tour of the three Oak Ridge facilities and a classified question and answer session will be held in Oak Ridge June 14-16. The purpose of the tour and conference, which will start at the American Museum of Science and Energy, will be to provide additional details on the location, extent and nature of work under the contract. Only three individuals from each interested organization, who have been granted a DOE security clearance in accordance with previously published procedures, will be permitted to attend.

Twenty-seven organizations have expressed an interest in proposing to operate the four energy-related facilities in Oak Ridge and Paducah. The DOE deadline for submission of expressions of interest was April 4.

The 27 are:

Robertshaw Controls Company; Sverdrup Technology, Inc.; Westinghouse Electric Corporation, Power Systems Company; Ebasco Services Incorporated; Gerald E. Lamale; Rockwell International Corporation, Energy Systems Group; The Bendix Corporation, Aerospace-Electronics Group.

TRW, Inc.; Jacobs Engineering Group, Inc.; Morrison-Knudson Company, Inc.; Arvin Calspan, Advanced Technology Center; ANEFCO, Inc.; Raymond Kaiser Engineers, A Subsidiary of Raymond International, Inc.; Northrop Services, Inc.; A Subsidiary of Northrop Corporation; Cabot Corporation; Foster Wheeler Corporation.

System Development Corporation; The Signal Companies, Inc.; Burns and Roe Industrial Services Corporation; Martin Marietta Aerospace, Orlando Aerospace; Lockheed Corporation; PRC Systems Services Company, A Planning Research Company; The Bionetics Corporation.

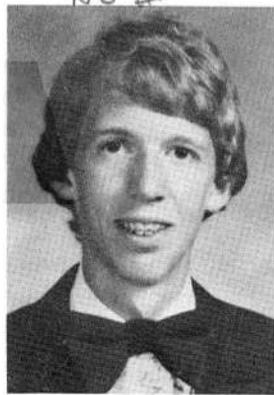
Computer Systems Corporation, Systems Group; EG&G, Inc.; Gilbert/Commonwealth; and PRI, Program Resources, Inc.

ORNL 2125-83

Union Carbide Scholars named

Three high school students from East Tennessee have been selected to attend the Washington Workshops Congressional Seminar, May 1-7, as Union Carbide Scholars.

The students are Robert Benjamin, Oak Ridge High School; Bill M. Gunter, Roane County High School; and R. Todd Johnson, Clinton Senior High School. The students were nominated for the honor by the faculties of their respective schools, and the nominations are supported by the Nuclear Division.



Benjamin

The seminar will include classes, discussions with members of Congress, attendance at House and Senate Chamber sessions and committee meetings, and talks by Cabinet members and other

(Please turn to page 3)



SIGNS OF SPRING — Despite the recent round of unseasonably cold and snowy weather, the calendar indicates that spring has arrived, an idea supported by the appearance of the butterfly on this blossom.

Clifford A. Burchsted dies

Clifford A. Burchsted, a senior engineer in ORNL's Engineering Technology Division, died April 8 in Germantown, Md., while on a business trip.



Mr. Burchsted

Mr. Burchsted, a 31-year Nuclear Division employee, was a fellow of the American Society of Mechanical Engineers; the Royal Society for Health, United Kingdom; and the American Society for Testing and Materials. He resided at 710 Riverbend Road, Clinton, and was a member of the Memorial United Methodist Church, Clinton, and a veteran of World War II.

Survivors include his wife, Betty Simmons Burchsted; a sister, Althea L. Myrbeck, Portland, Maine; and two brothers, Charles F. Burchsted, Niantic, Conn., and Kenneth R. Burchsted, Nassau Bay, Tex.

A private graveside service was held in Sunset Cemetery in Clinton, and a memorial service was held at Memorial United Methodist Church.

Mr. Barnett dies April 5

C. Joe Barnett, a supervisor in the Y-12 Maintenance Division, died April 5 at East Tennessee Baptist Hospital in Knoxville.

Mr. Barnett, who joined Union Carbide in 1967, lived at 113 Tilden Road, Oak Ridge. He was a U.S. Air Force veteran and a member of Central Baptist Church.

Survivors include his wife, the former Carolyn Sue Mitchell, a son, Michael J., a daughter, Janice E. Duncan, his mother, Darlena Gibson, all of Oak Ridge; and two brothers, John D. and Keith M., both of Titusville, Fla.

Funeral services were conducted in the Weatherford Mortuary Chapel, with burial at Oak Ridge Memorial Park.

Enrichment Technology picnic

The first Enrichment Technology picnic will be held Saturday, May 14, at Clark Center Recreation Park. The cost is \$2.50 for adults and \$1.25 for children aged 5 to 11, with children under 5 admitted free.

Adult activities begin at 10 a.m. with a softball tournament, continuing with a three-legged race, hole-in-one contest, tug of war and two-mile run. A craft show also is planned for the afternoon, and those interested in displaying and selling their wares may contact Diane McDonald at 6-4604. Children's activities include a three-legged race, ball throw, sack race, fishing contest, obstacle course and entertainment by a professional mime.

Robert S. Eby appointed department head

Robert S. Eby has been appointed manager of the Systems and Equipment Technology Department in the Process Support Division at ORGDP. He is responsible for directing programs that support the long-term operability of gaseous diffusion equipment; demonstrate product and tails withdrawal equipment for the Gas Centrifuge Enrichment Plant (GCEP); and provide technical support to



Eby

K/PH 83-1049

other Enrichment Technology organizations.

Eby worked as an engineering co-op student in the Gaseous Diffusion Development Division at ORGDP from 1971 to 1973. He became an employee in that division in August 1974 and, in May 1978, was promoted to section head responsible for developing GCEP withdrawal systems.

A native of Paducah, Ky., Eby received his BS and MS in chemical engineering from the University of Tennessee. He recently completed course work for his PhD in chemical engineering at the University of Tennessee.

Eby and his wife, Jean, have one daughter. They live at 11 Newhope Lane in Oak Ridge.

Save Energy-Share the Ride

ORGDP

CAR POOL MEMBERS NEEDED from Fairview or Claxton Community to Portal 2, day shift. Faye Beach, plant phone 4-9846; or Chloris Starling, 4-6461.

CAR POOL MEMBERS NEEDED from east end of Oak Ridge to any portal, day shift. Doug Janney, plant phone 4-9448; home phone 483-1619.

NEED RIDE or WILL JOIN CAR POOL from Cedar Bluff area, West Knoxville, to Portal 2, 4 or 5, 8-4:30. J. E. Collins, plant phone 6-0357; home phone 690-3667.

CAR POOL MEMBER NEEDED from Oak Ridge Highway (between West Haven and Karns) to Portal 2 or 4, 7:45-4:15. Marcie Rogers, 4-9407; or Jackie Vandergriff, 4-8084.

Y-12

WANT TO JOIN or FORM CAR POOL from Cedar Bluff area, West Knoxville, to any portal, 8-4:30. Gary Russell, plant phone 4-3658; home phone 691-3475.

RIDE NEEDED from Sutter's Mill Apartments, West Knoxville, to West Portal, 8-4:30. Larry Belle, plant phone 4-3352.

NEED TO JOIN or FORM CAR POOL from Harriman area to any portal, "E" shift. Doug Alred, plant phone 4-3840; home phone 882-6304.

VAN POOL RIDERS NEEDED from Lake City, Norris and Clinton, 7:30-4. Joe Foust, plant phone 4-5889; home phone 426-2947.

BUS POOL RIDERS NEEDED from Knoxville, I-40 at

Alcoa Highway (Expo Inn), 8-4:30. Joel Horton, plant phone 4-3121; home phone Maryville 983-9160.

ORNL

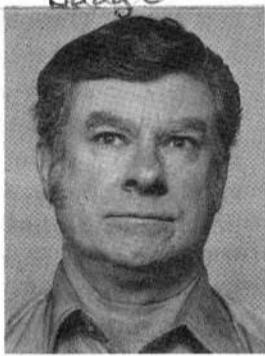
VAN POOL RIDERS NEEDED (room for two) from West Knoxville (Cedar Bluff, Cedar Springs Shopping Center, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant phone 4-5732; home phone 693-3211.

BUS POOL MEMBERS NEEDED from the Burlington Area, Asheville Highway, heading in the direction of I-640, stopping at Broadway and Tazewell Pike. The next stop is Papermill and Weisgarber, then to Cloth World on Kingston Pike. The next stop, via Kingston Pike, is Lovell Heights Shopping Center, then on via Pellissippi Parkway to all portals, 8-4:30. P. R. Long, plant phone 4-4154; or Twana Taylor, 4-7281.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDERS NEEDED from East Knoxville — down Middlebrook Pike, Cedar Bluff and back down Middlebrook Pike to Pellissippi Parkway to East and West Portals, 8-4:30. Contact A. J. Boatwright, plant phone 4-6041; home phone 970-4231.

CAR POOL MEMBERS NEEDED (5-person car pool) from Middlebrook Pike (Landmark, Stonebrook and Crestwood subdivisions), and Piney Grove Church Road to East Portal. Contact J. W. Sims, plant phone 4-5926, home phone 693-8829; or J. W. Nave, plant phone 4-4485, home phone 690-4395.



Mr. Barnett

UNION
CARBIDE

Nuclear Division News

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PADUCAH
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Published every other week for
employees such as:



Robin O'Hatnick, ORNL Instrumentation and Controls Division.



Joe La Grone named ORO manager

DOE photo (no #)



Joe La Grone

Joe La Grone has been appointed manager of DOE's Oak Ridge Operations Office, succeeding Robert J. Hart, who retired April 1. A resident of Danville, Calif., La Grone had served previously as manager of the Department's San Francisco Operations Office (SAN) since August 1978.

The principal mission of the San Francisco Operations Office is the management of research and development contracts in the areas of defense, nuclear energy, magnetic fusion and advanced energy concepts. SAN also has responsibilities in fossil energy, conservation and renewable energy sources and is additionally responsible for managing the contracts of the Lawrence Livermore National Laboratory, Lawrence Berkeley Laboratory, Stanford Linear Accelerator Center and the Energy Technology Engineering Center. The annual budget of SAN exceeds \$1 billion.

Facilities and activities

The Oak Ridge Operations Office was established in 1947. It is one of the largest and most diversified of the DOE field offices,

with principal facilities and activities in several states and an annual budget of approximately \$3 billion. The broad range of responsibilities covers most of the programs of the Department, with major missions in uranium enrichment, defense programs, reactor research and other energy research and development. The principal facilities of Oak Ridge include the Oak Ridge National Laboratory, the uranium enrichment complex, weapons production facilities, the Feed Materials Production Center and Oak Ridge Associated Universities.

During his tenure as manager of SAN, La Grone also served on several special assignments for the Department in Washington, including nine months in 1981 when he served as Acting Deputy Under Secretary and later as Acting Under Secretary.

La Grone has received numerous awards and commendations for management achievements, among which are the President's Distinguished Service Award in 1980, the Secretary's Distinguished Service Medal in 1981 and the Secretary's Citation for Special Act of Service in 1981.

Previous positions

La Grone began his federal career in 1962 as a management intern with the Atomic Energy Commission in Albuquerque and later held several positions at AEC Headquarters. He joined the San Francisco Operations Office under the former Energy Research and Development Administration as an assistant manager in 1975.

He is a 1961 honor graduate of Centenary College in Louisiana where he received a Woodrow Wilson Fellowship and later pursued graduate studies at the University of Wisconsin. In 1972-1973 La Grone was a Congressional Fellow and served with the late Congressman Craig Hosmer (R-Calif.).

A native of Deadwood, Tex., he is married to the former Peggy McDaniel. They have three children.



Leslie R. Powers Jr.

At ORGDP

Powers to manage new organization

Leslie R. Powers Jr. has been appointed manager for the new Enrichment Technology Planning organization at ORGDP.

A native of Ridgewood, N.J., Powers received a bachelor's degree in chemical engineering from the University of Virginia.

Powers joined the Operations Analysis and Planning (OA&P) Division at ORGDP in 1951, working on diffusion stage and cascade design, barrier development planning and analysis, mixing efficiency improvement and other gaseous diffusion process systems. In 1971, he transferred to the Separation Systems Division (SSD), where he served as technical liaison, design consultant and coordinator of the Component Test Facility.

Previous activities

In 1973, Powers became a member of the three-man Contingency Plant Coordinating Staff, returning to the OA&P Division in 1975. When the Operating Contractors Project Office was organized in 1977, he was named a senior development staff member. He transferred back to SSD in 1979, and served as chief of planning, systems integration and advanced gas centrifuge technology integration until his recent appointment.

Powers is a charter member of the Board of Directors of Youth Haven, and a member of the Clinton Citizens Advisory Board and the Clinton Recreation Commission. He and his wife, Betty, live on Scenic Drive in Clinton. They have three sons.

Daylight Savings Time change set for April 24

The change from Standard Time to Daylight Savings Time will take effect at 2 a.m. Sunday, April 24. All Nuclear Division employees who are at work during the conversion will end their shifts at their usual clock time on Daylight Savings Time rather than Standard Time.

Union Carbide Scholars selected

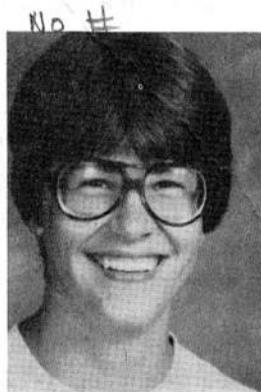
(Continued from page 1)

national leaders, both in and out of government. The scholars will be housed at Marymount College, where most of the seminar sessions are conducted.

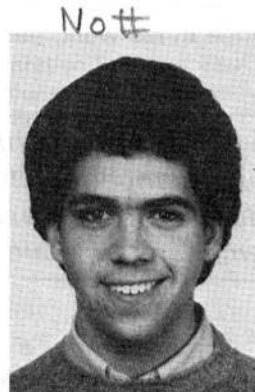
Benjamin, who lives at 121 Morningside Road, Oak Ridge, is an Oak Ridge High School student with a 4-plus average. He is a member of the International Relations Club, the French Club, National Honor Society, Student Council and Cross Country Ski Club.

Gunter is a junior at Roane County High School, where he has a 3.50 average. He is a member of the Beta Club, Science Club and the Diplomats Club. He serves on the prom committee. Gunter lives at Route 1, Harriman.

Johnson, of 534 Riverside Drive, Clinton, is a junior at Clinton Senior High School, where he has a 3.86 average. He is a member of the National Honor Society and the high school band.



Gunter



Johnson

As Union Carbide Scholars, the students will have the full cost of their participation in the Washington Workshops program defrayed by Union Carbide Corporation.

Quality Assurance activities touch employees'

During the past several years, increased emphasis has been placed on quality assurance. The Nuclear Division established a formal Quality Assurance program in 1977 to set quality goals and objectives, achieve a uniform understanding of our QA philosophy and evaluate the QA program.

Quality assurance coordinators have been appointed at each facility and within every major organization; there are quality improvement programs at Y-12, ORGDP, and PGDP; the Y-12 Plant has more than 70 groups of employees involved in Pride Circles; ORGDP recently established a Quality Improvement Council; and Paducah utilizes a Management Quality Circle in its Plant Performance Improvement Program. Each facility offers a series of training courses and seminars which use the doctrines of Deming, Juran and other "quality" experts.

'I believe most of our people have always been committed to doing a quality job, but the requirement of doing the job even better presents a significant challenge,' Hopkins said.

Since activities associated with QA have touched everyone's work life in one way or another, various employees were asked to answer the following questions:

- What does the phrase "quality depends on me" mean to you as it relates to your job?
- Do you feel the recent emphasis placed on quality assurance has made your job easier or harder? In what way(s)?
- What actions can we, as employees, take to ensure the quality of our work?
- How can performing quality work contribute to the successful future of Nuclear Division employees?

Some of their answers follow:

In explaining how quality depends on him, **Clyde C. Hopkins**, Nuclear Division Vice President, said: "It means that I must have a total commitment to ensuring the Nuclear Division has an effective Quality Assurance Program. This commitment must be demonstrated by speaking out in support of QA; providing resources to plan, develop and implement good QA programs; selecting good staff professionals to assist line management; and assisting in educating all our people on the benefits of a good program."



Hopkins

Hopkins agrees that the job probably seems harder due to the increased emphasis on quality. "I believe most of our people have always been committed to doing a quality job, but the requirement of doing the job even better presents a significant challenge. However, as we gain experience in the application of some of the new techniques and tools we have been learning about recently, the job will be made easier. We will have far fewer 'brush fires' to contend with as we learn to do the job right the first time," he said.



Ramey

Clyde A. Kelly, a planner-estimator in the ORGDP Maintenance Division, says quality depends on him because: "My job is to receive work orders, develop a job plan and purchase the right materials to get the maintenance work done. If I drop the ball, it affects all parts of the work that must be completed by others on down the line."

"'Quality depends on me' means that I am personally responsible for assuring the quality of my work," said **Joanne O. Ramey**, a senior laboratory technician in the Solid State Division at ORNL. "I realize that this is not a responsibility I can transfer to someone else. In a sense it makes my job more difficult because it requires additional planning before undertaking a job and assurance of quality during the performance of the work. However, following a QA plan does produce higher quality work," she said.

"I work in the seal shop," said **McKinley Reed**, a maintenance mechanic in the Maintenance Division at Paducah. "We have to be particular about the work we send out because our names go with the seals and if something goes wrong, we'll hear about it! We can ensure quality in our work by taking personal pride in what we do. If a guy takes pride in his work, he does better," he explained.

'In this age of high technology and foreign competition for providing quality products, it is essential that QA be emphasized,' said Sikka.

Joyce Turner, a secretary in the Human Resource Development Department of Y-12's Employee Relations Division, believes the emphasis on quality has made her job easier. "Quality assurance has caused me to change, not only my attitude, but also my method of job performance. I now take time to organize my work, plan my daily activities and devise alternate methods for completing assignments. I get the job done right the first time; therefore, I don't waste effort doing things over," Turner adds.

"I think it is not the question of making the job harder or easier," said **Vinod K. Sikka**, metallurgist in ORNL's Metals and Ceramics Division. "In this age of high technology and foreign competition for providing quality products, it is essential that QA be emphasized. We should all take pride in our work, follow the QA plan and aim at producing a quality product."

'If we don't do quality work, the customer will look for someone who will,' Treece said.

Randy Treece, an assemblyman in the Y-12 Assembly Division, feels the emphasis on quality has made his job harder. "Some QA requirements are repetitious and time-consuming without any real benefit to quality. However, I do believe we should all strive to do quality work. If we don't, the customer will look for someone who will," he said.



Treece

Wanzie A. McAuley, an Operations Analysis and Planning Division engineer who is developing a technical manual for the Gas Centrifuge Enrichment Plant at Portsmouth, said the emphasis on QA has made his job easier in some ways and harder in others. "It really depends on the individual (or organization) with whom I interface. My job requires a great deal of reference-searching, analysis, researching, evaluating and compiling of materials. When I work with a scheduler who understands this, my job is easier. If the customer is someone who is simply looking for paperwork at a designated time, my job is harder. I really agree with a quote I saw recently in an ORGDP flyer. It said 'the achievement of quality objectives must be given equal consideration with costs and schedules.'"

work lives

"The recent emphasis on QA has made me more aware that quality is part of my job," said **Nancey Pierce**, information processing leader in PGDP's



Pierce

Technical Services Division. "People always want to do good work — QA just recognizes that."

Gordon Sutton, construction supervisor for the Atomic Vapor Laser Isotope Separation Process laboratory at ORGDP, doesn't feel the emphasis on quality has affected his job at all. "I try to include quality into my work every

day, not just when QA Week rolls around. I was introduced to quality assurance while working in the Manned Space Flight Program before I joined the Nuclear Division, and it has sort of become a way of life for me," he explained.

"I believe that if a job is worth doing, it is worth doing right," said Hill.

Some good advice on how we, as employees can ensure the quality of our work was offered by **Roy Hill**, a production supervisor for the K-633 Test Loop in ORGDP's Operations Division. "When we do a job, we should make sure it is done according to established procedures. We should always follow safety, QA, operating and maintenance guidelines. I believe that if a job is worth doing, it is worth doing right. We should make our product as if we were going to purchase it ourselves," he said.

There was general consensus from everyone polled that performing quality work is the best way to ensure a successful future for the Nuclear Division. Hopkins summed it up. "There are always private companies, universities, or other institutions of U.S. and foreign governments who desire and have the capability to do much of the work done in the Nuclear Division. The ability to outperform all others in terms of quality work, on time and at the lowest possible cost will continue to provide our employees with great job opportunities and job stability in the future. In addition, the personal satisfaction we all derive from performing in an exceptional manner is well worth the effort and certainly helps build a worldwide reputation for the Nuclear Division," he said.



McAuley



CERTIFIED AS NRC EXAMINERS — Five ORNL employees have been certified by the Nuclear Regulatory Commission (NRC) as nuclear reactor operator examiners, joining five other Laboratory staff members who serve as full-time examiners. The new examiners completed nearly a year of extensive training before passing a certification examination. From left are Hugh Thompson, NRC Human Factors Division director; Dave Felde, Engineering Technology Division; Mark Baldwin, Fuel Recycle Division; Kent McCormack, Engineering Technology Division; Ron Thornton, Engineering Technology Division; Bill Eldridge, Fuel Recycle Division; Don Beckham, NRC Operator Licensing Branch chief; and Harold Denton, NRC director of Nuclear Reactor Regulations.

Question Box

Why remain in Contributory Plan?

QUESTION: I understand that there are still some employees who participate in the Contributory Retirement Plan. If the Company payments under this plan are offset against the Pension Plan, why do some employees still stay in the Contributory Plan?

ANSWER: Over the years, more and more employees have decided that it is not to their advantage to continue participation in the Contributory Retirement Plan. In our own Division, we have gone from a peak of 7463 participants in 1960 to about 2295 in 1970, and to 216 in 1980. As of March 1, 1983, the number of participants had dropped to 82.

In the early days the Contributory Retirement Plan included options that were not available under the Pension Plan. At the pres-

ent time, however, most of the former advantages of the Contributory Plan have been incorporated in the Pension Plan, although the "10-year-certain" feature and Contingent Annuitant Option of the Contributory Plan can provide payments to an individual not eligible for a survivor's benefit under the Pension Plan. On the other hand, being a participant in the Contributory Retirement Plan in some instances actually detracts from the overall return to an employee's spouse in the event of his/her death.

The pros and cons are too complicated to cover here. Each individual still in the Contributory Plan should discuss the matter with the Benefit Plans Office and make his/her own determination as to the best course of action.

Service Anniversaries

ORGDP

35 YEARS

Martha B. Arp, Purchasing.

30 YEARS

Edward V. Blankenship, Separation Systems; Paul E. Hudson, Maintenance; Brandt Kuperstock, Engineering; and John W. Smith, Engineering.

20 YEARS

Jack W. Hodge.

Y-12

35 YEARS

Samuel T. Benton, Development; and Robert J. McAister, Metal Preparation.

30 YEARS

Samuel D. Rea, Engineering; Ozell P. Wilson and Sam J. Davis, Product Certification; Billy F. Wright and Arthur J. Gilliam Jr., Maintenance; William A. Agee, Norman L. Dykes and Thomas J. Wilson, Development; Raymond K. Barnett, James P. Cook, Billy O. Miller, Raymond E. Plemons, Luther Thurman Jr., Edward P. Bostic, Donald F. Bougrand, Daniel B. Braden, James S. Peterman, Glen D. Mowery, Edward K. Beeler, Dennis Bridges,

Harvey Bridges Jr., Dewey L. Dagley, James W. Graves, James P. Grubb, Ernest E. Jenkins and Milas L. Sweet, Metal Preparation.

20 YEARS

Jerry D. Allstun, James E. Anderson and Billy G. Arnwine.

ORNL

35 YEARS

Claude C. Haws Jr., Chemical Technology.

30 YEARS

Robert W. McClung, Metals and Ceramics; Boone H. Anderson, Plant and Equipment; James L. Lovvorn, Instrumentation and Controls; and Charles R. Mason, Plant and Equipment.

25 YEARS

Russell L. Robinson and Charles E. Stephens.

PADUCAH

30 YEARS

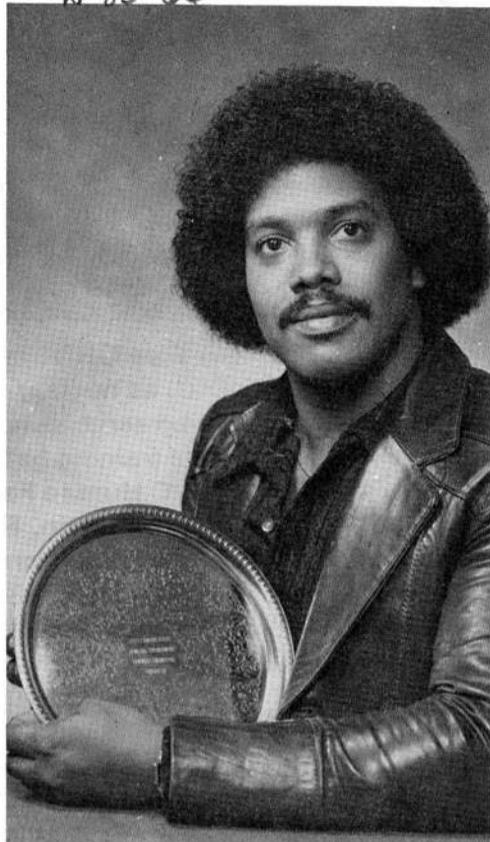
George L. Dunlap, Cascade Operations; and William E. Anderson, Chemical Processing Department.

Recreation highlights

More bowling tourney champions announced



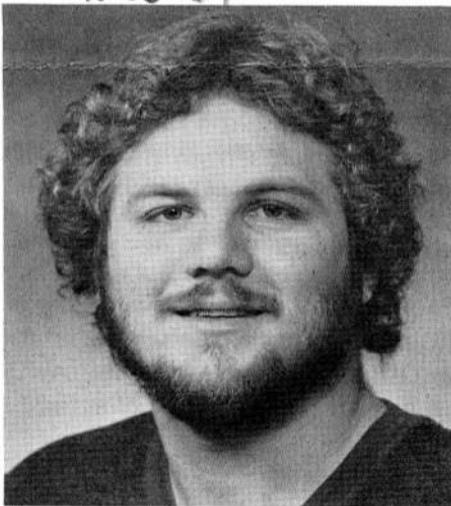
William Every and Eric Stegall
Men's Doubles Champions - 1382



Elwood's Other Chargers — Mixed Team Champions - 2532
(Left to right) Elwood McCulley, Gerri Teasley and Norm Teasley (Stephanie Livesay is not shown.)



Ebonettes — Women's Team Champions - 3041
(Left to right) Mary Johnson, Betty Wilkerson, Arnetha Johnson, Jennie Saffell and Mary Hawkins



Dave Dawson
Men's Singles Champion - 693



Kenny Brown and Phil Manos
Men's Doubles Scratch Champions - 1250

ORGDP women's champs selected

In the ORGDP Women's Bowling League, the Woodbees, second-half champions, defeated the Mouse Chasers in a recent roll-off to determine the season's champ. Elaine Griffies maintained the year's highest average, with a 170.

Nuclear Division bowlers busy in league action

Y-12 C League...

Recent highs were rolled by John Patton, with a 236,253 scratch and handicap game; Dick Huber, 600 scratch series; and John Cole, 700 handicap series. Cole's series was good enough for third place for the second half of the season.

Y-12 Classic...

The Kingpins lead the Y-12 Classic League, followed by the Ridgers and Pendulum. Weekly highs were posted by Doc McCarty, 681 handicap series; and Dan Culberson, 275 handicap game.

Carbide Lenoir City...

Clarence Wright was outstanding in recent action, posting a 212/585 game and series. The Fantastic "4" lead the league, trailed by the Smurfs and Pa Paw's Bunch.

UCC Monday Mixed...

The Pacesetters lead the Union Carbide Monday Mixed League, followed by the Whoevers and Lucky Strikers. Individual high averages are maintained by Bill Muenzer, 184; Job Goodman, 180; Mary Johnson, 166; and Ruth Hardin, 154.

Carbide Wednesday Men's...

The Carbide Wednesday Men's League is led by the Pin Heads, trailed by the Hit Men and Alley Rads. Weekly prize winners included Elwood McCulley, 254,270 scratch and handicap game and 637 scratch series; and Larry Williams, 691 handicap series.

ORNL "A"...

Recent weekly prize winners in the ORNL "A" Men's League were Tom Kitchings, 230,249 scratch and handicap game; and Bob Foote, 679 handicap series. The

Challengers lead the league, ahead of the Dynamics and Elwood's Chargers.

K-25 Tuesday...

The All Stars lead the final standings of the K-25 Tuesday League, trailed by The Team and City Slickers. Individual highs were posted by D. Pollitt, 233,607 scratch game and series; M. E. Mitchell, 245 handicap game; and L. D. Charles, 682 handicap series.

Summer league forming

The 1983 Monday Mixed Summer League is being organized. Participants will bowl at Western Plaza Lanes on Monday evenings at 6:30 p.m. beginning June 6. To register, or for more information, call Dean Treadway at 574-6580.

Rowing in Oak Ridge offers many opportunities

(Editor's note: This feature on the increasing popularity of rowing in Oak Ridge was submitted by Steve Spooner, a research staff member in the ORNL Solid State Division. In it, he shares his knowledge of the local history of this sport and his personal involvement with it. If you are interested in writing about a personal hobby or activity for submission to *Nuclear Division News*, please call one of the editors listed on the masthead.)

by Steve Spooner

Rowing in Oak Ridge has many facets — regattas of national prominence, programs for disabled persons, competitive rowing at the high-school and master's level, recreational rowing for the occasional participant, Explorer Scout activity, and even college-level rowing. (During the spring break, rowers from various northern colleges take advantage of the excellent rowing water here.)

Melton Hill Lake advantages

Melton Hill Lake is blessed with a combination of advantages, making it one of the finest bodies of water for rowing. A seven-lane, 2000-meter course (Olympic standard) in the lake is perfectly straight with no bridge obstructions. There is little current, and the prevailing winds are blocked by the ridges. In addition, a large number of qualified rowing officials live in the area, which makes organizing regattas very convenient. With the expanding activity and national recognition, Oak Ridge is expected to be a center of rowing for years to come.



Steve Spooner

In 1979, members of the Oak Ridge Chamber of Commerce initiated a national-level rowing competition at Melton Hill Lake. Convinced of the lake's superior qualities for rowing, the Chamber members solicited TVA support to establish, a first-class rowing course with proper lane markers, docks and starting platforms. An area promoter obtained United States Rowing Association sanction for the 1980 U.S. Women's National Championship Regatta at the lake. The "seed" for the growth of rowing was thus planted with the successful staging of the women's regatta that spring.

Use of 'row cats'

One "branch" in the growth of rowing is a recreation and rehabilitation program nurtured by Chris Keim (a retired director of the ORNL Information Division) and oriented toward disabled persons. Working with the Daniel Arthur Rehabilitation Center in Oak Ridge, Keim set up a program to enable disabled people to go out on the water in boats called "row cats." While row cats are not the competitive boats used in regattas, the catamaran design allows even severely handicapped persons to gain the exhilarating freedom of motion on water. The fun of rowing in the beautiful setting of the hills surrounding the



Rowing on Melton Hill Lake

lake can provide a tremendous morale boost for the disabled.

Another "branch" sprouted in the summer of 1981 when a few former rowers, brought together through the regatta activities, helped initiate local competitive rowing with a four-man boat race on the Tennessee River at Knoxville. Among those first rowers were Jim Gibson (ORNL Plant and Equipment Division), John Vitek (ORNL Metals and Ceramics Division) and Dick Gammage (ORNL Health and Safety Research Division). A second four-man shell was set up with high-school students, and the two boats entered races in a Christmas vacation regatta in New Orleans.

Gibson, now president of the Atomic Rowing Club, helps to nurture the continued growth of rowing with a recreational program for first-time and occasional rowers and an Explorer Scout rowing post. Rowing for high-school girls began in late 1982, and I currently serve as part-time coach for the high-school-boys' program. There are now 3 men's masters' crews (participants are at least 28 years old), 1 women's masters' crew, 3 high-school-boys' and 3 high-school-girls' crews, 10 Explorer Scout rowers and 10 to 20 recreational rowers. All these groups utilize two rather dated four-man shells!

How it feels

To get an idea of the effort that goes into rowing, consider the relatively simple exercise of picking up a barbell from the floor (starting in a squat position) and bringing the weight to your chest (a "clean" in weightlifting parlance). Legs, backs and arms all are used in a smooth transition effort. Now, sit on a sliding seat and perform the same motion, but in a horizontal direction. Add to this the effort required to control a 12-foot oar pivoted about 3 feet from you, and you will begin to understand what it's like to row in a 2000-meter race. A rower will take about 200 strokes at a rate of about 1 stroke every 2 seconds. The rower depends on anaerobic strength to start the boat, but his or her system will transfer to aerobic performance in about one minute. Then, the rower will feel as if he or she is running out of breath for about seven minutes. Toward the race's end, the rower spends a minute summoning his or her



Steve Spooner and Jim Gibson

last bit of strength (using aerobic and anaerobic strength) to beat an opponent.

The gratification in this whole exercise occurs when "swing" — that surreal feeling of absolute coordination — is achieved. Rowing then feels effortless, and the euphoria lifts the rower to unimagined physical performance. Achieving "swing" motivates rowers to build strength and endurance so that, when that special moment comes, they'll be ready.

Benefits of rowing

The fast growth of participation in rowing in the Oak Ridge area parallels a recent nationwide increase in interest in the sport. Rowing is not a spectator sport, because people on the shore can see only a small part of the action. It is a sport requiring a high level of fitness for full enjoyment, and crew racers strive for the closest team coordination of any competitive sport. Because a high commitment is demanded in rowing, rowers often become so deeply involved that they promote the sport with the intensity of an evangelistic campaign.

A tangible benefit, of course, is the excellent physical conditioning that can result without the aches and bruises of running or weight lifting. The intangible benefit is that of close fellowship among rowers that transcends the "Ivy League" elitism of a former rowing era. With the emergence of masters' category rowing, old and new rowers alike can compete and can continue to do so, even past 70 years of age.

'Deaf People Can Do . . . Let Them'

Deaf Awareness Week is being observed this week in the Nuclear Division, and several events have been scheduled to highlight the theme, "Deaf People Can Do . . . Let Them." A six-minute videotape is being shown in the cafeteria at each facility, and Don Ashmore, director of the Tennessee Council for the Hearing Impaired in Nashville, will speak at ORNL at noon, April 26.

As part of the observance, six deaf employees in the Nuclear Division were asked to highlight their personal achievements or accomplishments.



Wanda Booker, a records clerk in ORGDP's Separation Systems Division, said, "Being independent is my most coveted asset." Both she and her husband, who also is deaf, have shown their pride in and love of independence by striving to lead a normal life. Booker said that she is proud of owning a home, taking care of her family's needs and being involved in the school activities of their two daughters.

Booker



Belle

Larry Belle, a machinist in the Fabrication Division at Y-12, said, "I am proud that I got an education and learned a skill in machining. This has enabled me to lead a successful life."



Simpson

Ivadell Simpson, a data entry clerk in the Computer Sciences Division at Y-12, indicated she was proud that she got a job in the Nuclear Division. She said she was especially proud when all the people in her office learned sign language. "We can communicate now, and I am doing well with my job so far."



Jennings

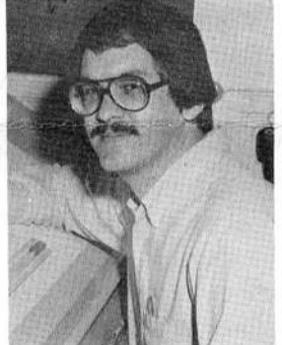
Linda Jennings, an information processor in the Environmental Sciences Division at ORNL, said, "The most gratifying experience during my employment at Carbide has been in the area of personnel adjustments. I owe my supervisor credit for the feeling that I now have that I am not different — rather, I am an equal with other employees."



West

Susanna West, a compositor in ORNL's Information Division, said, "Helping hearing people to understand my deafness and to accept me as a contributing member of society is something I am proud of. Gaining the respect of hearing people is, of course, dependent on my complete acceptance of my own deafness and my commitment to improve the quality of my life and the lives of other deaf people."

Freddie Markham explained that by learning sign language, he has been able to understand others and communicate more clearly. "Without sign language, I feel I would never be what I am today." Markham is a draftsman in electrical engineering at ORGDP.



Markham

Next issue . . .

The deadline of the next issue of *Nuclear Division News* will be April 27. The issue will be dated May 5.

Distinguished Scientist Program announced

The University of Tennessee and ORNL will establish a Distinguished Scientist Program, whose long-term goal is to enhance the quality of science education, research and industrial development in the East Tennessee area.

The new cooperative program is designed to attract nationally known scientists to the Oak Ridge-Knoxville research community.

It is planned that one or two of the distinguished scientists would be appointed in the 1983-84 academic year and possibly five over the next two years. The program would have up to 30 distinguished scientists when fully implemented. Current UTK and ORNL employees would not be eligible for appointment.

Dual appointment

UTK Chancellor Jack E. Reese and ORNL Director Herman Postma said that each individual selected will hold a dual appointment as a professor with tenure reporting to a department chairman at the University of Tennessee, Knoxville, and as a distinguished scientist at ORNL.

Appointments are to be made in fields of mutual interest to the University and to the research and development programs currently conducted by ORNL for DOE.

Research areas

These areas are expected to include the basic sciences and engineering, information and computer sciences, energy policy and analysis, and related fields of study and research.

A memorandum of understanding provides that ORNL and UTK will work together to identify research areas of mutual interest. Once an area is identified and agreed to by both institutions, a research committee composed of UTK and ORNL representatives will be appointed to locate, interview and recommend candidates.

Reese and Postma will be the approving authorities for their respective institutions. ORNL also will act on behalf of other parts of the Oak Ridge complex in cases where an appointee's qualifications more properly match research in these areas.

Safety Scoreboard

Time worked without a lost-time accident through April 14:

Y-12 Plant	2 Days	90,000 Employee-Hours
ORGDP	39 Days	904,813 Employee-Hours
ORNL	302 Days	6,500,403 Employee-Hours
Paducah	989 Days	7,998,255 Employee-Hours

SAFETY TIP: The chances of dying in a home fire are reduced by half if a smoke detector is present.

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