



TRAINING SHARPENS
EMPLOYEE SKILLS

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Cover

Appalachian's Power's second underground residential and distribution (URD) training program was conducted last month in Roanoke. In this photo, the crew is reading the manufacturer's instructions and putting into practice the installation of a primary cable termination on a mock riser pole. Crew members are, l. to r., Jim Cook, Charleston; Burton Grogan (partially hidden), Fieldale; Larry Smith, Huntington; P.L. Humphreys, Roanoke; and Coonie Hager, Logan. See company training story on pages 14-16 this issue.

Savings plan unit values

Date	Fixed Income Fund		Equity Fund		AEP Stock Fund	
	VPU	UCPD	VPU	UCPD	VPU	UCPD
1/31/82	\$1.4280	.7003	\$1.7011	.5879	\$1.1597	.8623
2/28/82	1.4398	.6945	1.6219	.6166	1.1831	.8452
3/31/82	1.4538	.6879	1.6159	.6189	1.2016	.8322
4/30/82	1.4665	.6819	1.6827	.5943	1.2458	.8027
5/31/82	1.4799	.6757	1.6345	.6118	1.2503	.7998
6/30/82	1.4927	.6699	1.6089	.6215	1.2165	.8220
7/31/82	1.5059	.6641	1.5755	.6347	1.2166	.8220
8/31/82	1.5215	.6572	1.7717	.5644	1.3692	.7304
9/30/82	1.5369	.6507	1.7924	.5579	1.3536	.7388

VPU — value per unit
UCPD — units credited per dollar

HOW TO READ THE ABOVE CHART: The first column lists the days on which unit values are figured; the second shows the market price or value of each unit on that day; and the third indicates how many units you could have bought for \$1 on that day. For example, if the market value or "value per unit" of the Equity Fund were 50¢ on the valuation date (last day of each month), then "units credited per dollar" would be 2.000. This also holds true for the AEP Stock Fund and the Fixed Income Fund.

The inside story

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AEP sells 3.5-million shares of common

American Electric Power Company on September 28 sold 3.5-million shares of common stock at competitive bidding at a price to the company of \$17.682 per share.

The winning bidder was a syndicate headed by Smith Barney, Harris Upham & Co., Inc., which set a price of \$18 per share for its sale to the public.

Proceeds from the sale will be used to repay outstanding short-term debt.

As of September 30 AEP had 169,898,723 shares of common outstanding, including the most recent sale.

Earlier in September the company had told the shareowners that it planned to sell up to 7-million shares of common by next March 31, and indicated that the balance of up to 3.5-million shares would be sold during the first quarter of 1983. □

AEP announces stringent cost reduction measures

A broad series of cost-reduction measures, including an immediate five percent salary cut for the top 140 members of management as well as a general salary freeze starting January 1, 1983, were announced last month for all operating units of the American Electric Power System.

W.S. White, Jr., chairman of the board and chief executive officer of American Electric Power Company, Inc., in making the announcement said the stringent program is designed to "deal essentially with minimizing cash outflows both for construction and operating and maintenance expenses in the face of a recession which is deeper than any since World War II."

The five percent salary reduction affecting 140 management personnel across the System will be effective Monday, Nov. 1.

No general wage increases or merit salary increases will be granted starting January 1, 1983.

Other elements of the cost-reduction program include:

- Sharp restrictions on promotions.
- Reduction of total employment from the current level of 26,200 persons through attrition, except in three specified instances to be detailed in later announcements.
- Cancellation of current personnel requisitions effective November 1.
- Termination of temporary replacement personnel by November 15 and reassignment of their duties.
- Avoidance of employee relocation, except for movement of personnel to Columbus in connection with the closing of the New York office in 1983.
- Curtailement of travel, both within and outside the System.
- Prohibition of attendance at conventions.
- Reduction of training programs to a minimum.
- Sharp reductions in contributions and memberships.
- No net additions to the automotive fleet in 1983.
- A 10 percent dollar reduction in inventories from October 31 levels.
- Immediate reevaluation of all previously approved capital appropriations, except those directly related to customer service.
- An economic reevaluation of the construction schedule of the Rockport plant.
- Delay or stretch-out of extra-high voltage projects.
- Reduction in construction of distribution and transmission facilities.
- Suspension of all fuel supply projects that are not related to regulatory and/or safety requirements.
- Cancellation of all general plant expenditures, effective November 1, except for those with compelling safety or economic benefits.
- Study of power plants to determine if some older plants should continue to operate.
- Reevaluation of capital and maintenance expenditures on existing generating units.
- Reduction of fuel stocks.
- Sharp curtailment of advertising.
- Elimination of most outside services.
- Sale of non-earning assets.
- An organizational review of the Service Corporation.

Chairman White said the severity of the steps outlined are in response to the difficult times faced by the company. He added:

"Should our circumstances deteriorate further, even more difficult steps may have to be taken." □

APCo files suit to invalidate line ordinance

Appalachian Power Company has filed a suit in the circuit court of Carroll County (Va.) seeking to invalidate a power line ordinance passed by the board of supervisors in July 1982.

The ordinance opposed by the company prohibits the construction, rebuilding, relocation or enlargement of residential dwellings within 600 feet of a 765-kilovolt transmission line.

The Carroll County ordinance claims as its purpose "to protect the health and safety of the public by preventing prolonged exposure to high voltage electrical fields." Appalachian, however, says that such issues were carefully considered by the State Corporation Commission before it granted permission to construct the line.

John W. Vaughan, Appalachian's president, said that health issues were not only covered thoroughly during extensive hearings held by the State Corporation Commission, but that the State Supreme Court later determined that the SCC's investigation of health and safety aspects was entirely proper.

Other than increasing its costs which must be passed along to its customers, Vaughan says the ordinance should have no effect on the power company. "Its real effect is to place a burden on the property owner by preventing him from building a home within a 1,200-foot wide path."

Vaughan noted that the company's practice, which was approved by the SCC, is to acquire a 200-foot right-of-way for such lines and he emphasized the importance of maintaining such a uniform approach through the various political subdivisions which the line will cross. Appalachian's filing claims that the State Corporation Commission has exclusive power to regulate the location and construction of such power lines and that local governmental bodies do not have such authority.

According to Vaughan, the company

is taking legal action against the ordinance because of its continuing interest in keeping costs as low as possible. "We believe that challenging this ordinance is in the best interests of our customers," he said. □

Contest launched to promote EPP, CPP programs

Appalachian Power Company launched an employee incentive campaign last month to encourage customer enrollment in the Equal Payment Plan (EPP) and Checkless Payment Plan (CPP) programs. The goal is to add 9,300 new EPP and 4,650 new CPP customers by December 31, 1982.

During the remaining two months in the contest, any employee who is successful in enrolling a customer in the EPP or CPP program will have an opportunity to win the division prize. Each time an employee enrolls a customer in a program, the employee's name will be placed in the appropriate pool. At the end of the month, a winner's name will be drawn from each pool.

All Appalachian Power employees are eligible to participate. However, to be a winner in either the CPP or EPP category, the employee must be enrolled in the plan. Exception would be made in the case of an employee whose checking institution does not permit participation in CPP or the employee does not have an electric account in his/her name. Under either of these conditions, the employee may win the prize without participating in the program.

Non-division employees will participate in the division contest in which their work station is located. For example, employees at Amos Plant would participate in the Charleston Division.

Winners in each category will receive a certificate entitling them to select any item shown in "Collection Q" of the OIP prize groups. A total of six prizes per division will be awarded. □

Matching gift program underway

AEP's Matching Gift Program went into effect October 19.

Under this program, as announced in August, the company will match employee's gifts (cash, check or marketable securities) to qualifying colleges and universities. Contributions must be at least \$25 but no more than \$2,000. Employees and retirees of AEP System companies wishing to make such gifts may obtain the necessary forms and instructions from the Personnel Department. Retired employees should contact the Personnel Department where their medical claims are submitted. □

EPRI dedicates research center

An advanced facility for the research and testing of transmission line towers was dedicated September 28 in Haslet, Texas by the Electric Power Research Institute (EPRI).

The \$9.5 million operation will provide a center for major national research programs aimed at both improving existing transmission towers and designing new ones. The research done on transmission towers, poles and foundations will be important to electric utilities, according to EPRI, since it is estimated that they will build more than 100,000 miles of new transmission lines over the next 20 years at a cost of about \$30 billion. □

APCo drops Brumley Gap study

Appalachian Power Company last month filed a request with the Federal Energy Regulatory Commission to withdraw its preliminary permit to conduct feasibility studies for a pumped storage hydroelectric project in southwestern Virginia.

John W. Vaughan, president of Appalachian Power, said the request would terminate the company efforts to study a proposed site at Brumley Gap, Va. as a possible site for a project.

"In these times of economic uncertainty," Vaughan said, "it does not seem prudent to spend \$15 million to study the feasibility of such a project, especially in light of economic conditions which require Appalachian Power and the American Electric Power System to reexamine the expenditures for all current and pending projects."

In addition, Vaughan said, the anticipated protracted period for licensing, design and construction of the project, assuming the studies showed it to be technically and economically feasible, would delay its integration into the American Electric Power System until about the year 2000.

Vaughan noted that Appalachian first sought the preliminary permit to study the feasibility of the project in August, 1977. FERC issued the permit last January 25. The permit allows three years for study before the company decides whether to file a request for a license to construct the project.

Vaughan pointed out that Appalachian has been preparing to enter the critical phase of its studies which would involve the expenditure of \$15 million for environmental and other preliminary examinations of the proposed project site.

The American Electric Power System and Appalachian Power had earlier announced a wide-ranging series of cost-reduction actions designed to minimize outgoing cash flow and to enhance earnings. Company spokesman noted in announcing the cost-reduction program that the AEP System, including Appalachian Power,

have been severely affected by the worst recession in its service area since World War II.

"When all the uncertainties involved are carefully studied it becomes clear that it would not be prudent to expend large sums of money on this project in the light of the company's current financial constraints," Vaughan concluded. □

IRS excludes part of AEP dividend from tax

The Internal Revenue Service last month accepted American Electric Power Company's determination that 38.76% of the cash dividends paid on its common stock in 1980 was not taxable as dividend income for Federal income tax purposes.

Earlier, in January 1981, AEP had notified its shareowners that its preliminary determination indicated that 29% of the 1980 dividends was not taxable.

AEP paid a total of \$2.23 of dividends per share on its common stock in 1980.

The company pointed out that the 38.76% figure will remain subject to possible change until final determination by IRS after it has completed its audit of AEP's 1980 tax return. □

AEP reports third quarter earnings decline

American Electric Power Company, Inc., last month reported third quarter earnings of \$54,729,000 or 33 cents a share, compared with \$87,916,000 or 55 cents a share for the same period in 1981.

For the 12 months ended September 30, AEP reported earnings of \$350,129,000 or \$2.15 per share, compared with restated earnings of \$337,007,000 or \$2.22 per share for the same period in 1981.

The decline in earnings per share also reflects the increases in the average number of shares outstanding. The number of shares increased by 4% for the quarter and 6.9% for the 12-months period.

W.S. White, Jr., chairman of the board and chief executive officer of American Electric Power, said the major factor affecting the earnings decline was the depth and length of the current recession. White said the impact on the AEP System has been substantially more severe than that of any recession since World War II. Sales to industrial customers and to other utilities are both down sharply from 1981 levels. Also contributing to the decline was milder summer weather which resulted in fewer cooling degree days.

American Electric Power reported its operating revenues decreased 0.4% in the third quarter and increased by 2.0% over the full 12 months, compared with the same periods the year earlier. Third-quarter revenues were \$1.015 billion in 1982, against \$1.019 billion in 1981. Revenues for the 12 months ended September 30 were \$4.218 billion, compared with \$4.134 billion a year ago.

(Earnings and revenue figures for the 12 months ended September 30, 1981 have been restated to reflect certain revenue refunds.) □

Employees may withdraw funds from savings plan

During November, employees who have participated in the AEP System Employees Savings Plan for three or more years may elect to withdraw a portion of the funds in their account through the "partial distribution" provision of the plan. Distribution of the funds would then take place in February.

The current opportunity for withdrawal is the second such annual election period. The first was in November 1981.

The withdrawal provision gives participants the option, once a year, to take out all contributions, both their own and the company's, that were made during a given prior year, plus the earnings on such contributions through the current year.

Withdrawals to be elected this month and distributed in February are restricted to the total of all contributions made to a participant's account during 1979, plus earnings through December 31 this year. The amount is fixed. No more, no less.

To be eligible for the current election period, an employee must have been a participant in the Savings Plan at some time during 1979. To make a withdrawal, the employee must notify the Personnel Department of such intention during the current month.

Such withdrawal is voluntary and carries no penalty. However, a decision to withdraw, once made, is irrevocable, and funds thus withdrawn cannot be reinvested in the Savings Plan. Also, in some cases, such withdrawal may be subject to income taxes.

Primary purpose of the Savings Plan is to provide employees a means to save through tax-deferred investments in anticipation of retirement, death, disability or time of need. The partial distribution provision is designed to take care of those situations in which an employee may have a pressing, special need for money on a one-time or once-a-year basis.

The partial distribution provision is ex-

plained in the AEP Protection Program booklet (page 15, Savings Plan section). Employees with further questions should consult the Personnel Department. □

Clark receives PE certification



Clark

Gregory Clark, Madison area supervisor in Logan-Williamson Division, has been certified as a registered professional engineer in the State of West Virginia.

Clark holds a bachelor of science degree in electrical engineering from Ohio Northern University. He began his career with Appalachian in 1976 as an electrical engineer in Charleston. □

Kazanjian wins IABC awards

Gary Kazanjian, video services coordinator in GO Public Affairs, Roanoke, had two winning entries in the 1982 Best in Virginia Awards competition sponsored by the International Association of Business Communicators.

A photo of hot stick training (used on the cover of the June 1982 issue of Transmission and Distribution Magazine) won first place in color photography. A view of the Roanoke, Va., market (used in Appalachian Power's slide show, "The Power Behind The Shine") won second place in color slide photography. □

AEP signs long-term power contracts

The American Electric Power System announced last month it has signed two long-term contracts to provide power to other utilities.

One contract calls for the AEP System to sell to Allegheny Power System 560 megawatts of power starting October 25, 1982, and continuing through 1990. Allegheny will transmit and resell this power to General Public Utilities (GPU) for use to displace higher-cost generation and power lost because of the Three Mile Island accident.

The second contract is with Virginia Electric and Power Company (Vepco) to provide that utility with 600 megawatts of power starting January 1, 1983. The contract will continue for two years.

This contract will enable Vepco to use AEP's coal-fired generation to displace Vepco's higher-cost oil-fired generation. Vepco customers will benefit from Vepco's reduced fuel costs.

AEP customers will benefit from both of these contracts because of the greater utilization of AEP facilities.

Both of these contracts are subject to Federal Energy Regulatory Commission (FERC) approval. □

Comic books aren't just for kids

Spiderman wraps up a pair of crooks in his vice-like webbing. The Beagle Boys plot to rob Uncle Scrooge's money bin. Richie Rich buys still another wardrobe of clothes. The boss of a crime syndicate obtains a supply of kryptonite as he devises a trap for Superman. And Elmer Fudd's carrot patch is raided by that "was-cally wabbit," Bugs Bunny.

If tales like these sound familiar to you, chances are you spent some of your childhood hours pouring through comic books. And, if you're one of those people who never throw anything away, start digging for those old comics. You might be lucky enough to have one or two that are valuable as "collectibles."

Comic book collecting is serious business for Huntington's Joe Haynes and Jerome Bradburn.

Jerome, now a meter reader, has been collecting "ever since I was old enough to sell pop bottles to buy comics. Later on, when I got older, I thought about smoking but I found out I would rather spend the money on comics than smoke."

He continues, "The oldest ones I have are about 12 years old and I keep adding all the time. At first it was just a hobby because I like to read and re-read them. Then, when I found out about the buyer's guide, I have been storing them better."

Joe, an administrative assistant, says, "The buyer's guide gives the value of virtually every comic book that has ever been printed. There are many variables that go into it: age, condition, who the artist is, how many were printed originally and how many are still available. The main collectibles — the comics that are worth the most money — are those that deal with super heroes. If you have a comic that first introduced the hero, somebody like Superman or Batman, then it is worth money."

He adds, "The most expensive comic book right now, according to the latest buyer's list I read, is Marvel Comics No. 1. The price range is from \$6,500 to \$16,000, depending on the condition. It became Marvel Mystery Comics with the second edition.

Joe continues, "Most people think the



Jerome Bradburn, left, and Joe Haynes show some of the comic books from their collections.

first edition of Superman would be the most valuable, but it is the second most valuable. The first appearance of Superman was Action Comic No. 1, and the price range on it is \$2,000 to \$12,000. Some collectors would probably pay that, but I don't imagine anyone who has a copy would let it go for that amount. A real collector would probably pay whatever they had to get it.

Joe notes, "There are two main publishers of comics — one is EC and the other is Marvel Comics. Some of the main collectibles now are Marvel Comics of the early 60s. They were originally known as Timely Comics before changing their name to Marvel. The only thing that EC puts out now is Mad Magazine."

Jerome adds, "Comics are not like they were 10 or 12 years ago. They have a human side as well as a 'good' side. Superman now gets married, gets a divorce, and has financial problems. Spiderman goes to college and tries to hold down a job, making for a hectic life. And, too, some of the stories aren't complete in one edition. You might have to buy four or five to

get the end of the story."

The most valuable comic in Joe's collection is Fantastic No. 1 which, according to the buyer's guide, ranges from \$500 to \$1500. "The most I ever paid for a comic book the whole time I've been collecting is \$20," he says. "That was for an old Captain Marvel book."

The most Jerome has ever paid for a comic book is \$15. The most valuable one he ever had was a Captain Marvel he found in his grandfather's attic. "It was yellow with age, but it was in pretty good condition. After I read it, I put it in an old wax paper sandwich bag and ironed down the edges. When I got married and left home, my mother thought I was too old for comics and threw it away when she was cleaning my room. She just didn't realize what she was doing."

Jerome adds, "I love comics. I really do. They are entertaining and I prefer to read instead of watching TV."

Joe concludes, "My son is 15, and he is into collecting also. I visualize turning my whole collection over to him some day." □

THE SKY'S THE LIMIT FOR STEVE COOK'S HOBBY

"Airplanes and spacecraft have always fascinated me," says Charleston Meter Electrician Steve Cook. "I grew up watching the space program evolve and, when I was 17, hitchhiked to Cape Canaveral with my brother to watch one of the moon rockets, Apollo 15, take off. I suppose my hobby of building and launching model rockets stems from the fact that I've always wanted to be a part of the space program, no matter how small.

"I started out making rocket models in 1968," Steve recalls. "You can buy kits at most hobby shops and some of the simpler models can be put together in an hour. Others can take days or even weeks."

Steve's special interest is building rockets that are scale models of those in the U.S. space program. His collection includes Nike-Ajax and Bomarc anti-aircraft missiles; U.S. air launched Cruise Missile; Jupiter C, the first U.S. satellite booster; Mercury-Redstone, which launched Alan Shepard; and Apollo Saturn 1, which tested moon rocket assemblies in earth orbit and carried men to the old U.S. Skylab. "That rocket stands 38 inches tall, 4 inches in diameter and



weighs 9 ounces, a real whopper," Steve says. "I also have a future design of the space shuttle, called the orbital transport. It has a small shuttle glider that separates from the main stage and glides back. I also have one other strange one — the Mars Lander. It takes off straight up but lands on spring loaded legs."

Although some of Steve's models are available in kit form, he prefers to build his models from scratch. "I have several reference books and often I will study a particular rocket several months before I try to build it." On one occasion Steve had to write NASA headquarters to obtain enough information to build the model he was interested in. He also has spent three days touring the Smithsonian's Space Museum in Washington.

Steve's models are constructed of cardboard, balsa and sometimes plastic although he tries to stay away from plastic if at all possible. "Metal is not allowed in rockets," he adds, "because you don't want a piece of metal flying at you at 300 miles an hour. When you get the models painted, of course, they don't look like they are plastic or balsa."



Steve Cook displays some of the model rockets in his collection.

"I have several rockets that I have flown 20 times, and I have had some to fly only once. It is kinda risky sometimes," Steve notes. "If a fin comes off, for example, it could go all over the sky. It really is painful to see several months' work catch fire on the launch pad. That doesn't happen very often, though."

One of Steve's rockets has a specially built camera nose cone for holding a roll of color film. Although the rocket is about 2 feet long, it weighs only 3½ ounces. The camera alone weighs 1½ ounces. Only one picture can be made per launch, and the film must be advanced each time the rocket lands.

"I have put this camera rocket up a half mile high," Steve says. "You buy a prepackaged engine about 3 inches long and an inch in diameter, and run two wires to it. It has a battery, and you push a button that sets it off. My three children are my ground crew, and we have countdowns. I usually let one of them push the button to fire it, while I stand back and take pictures of the rocket lifting off. Built into the engine is what is called an ejection charge, and it blows out a parachute. Hopefully, the rocket lands nearby, but I have picked it up a long ways off."

"With a two stage rocket, you can reach between 1,500 and 2,000 feet," Steve adds, "but I don't try to do that around here because there is not enough space."

"During the summer," Steve adds, "Steve Ripple, an Air National Guard member, and I started firing rockets off in Charleston's Super Block. This is an area, in the middle of town, two blocks wide and three blocks long, which was flattened for a new shopping mall. It's a great place to fly! I never imagined flying my camera right in the middle of town just two blocks from our APCo building. I've made some good pictures, but the buildings are going up fast and I'm running out of time to fly there. It

takes a lot of flying to get one good picture."

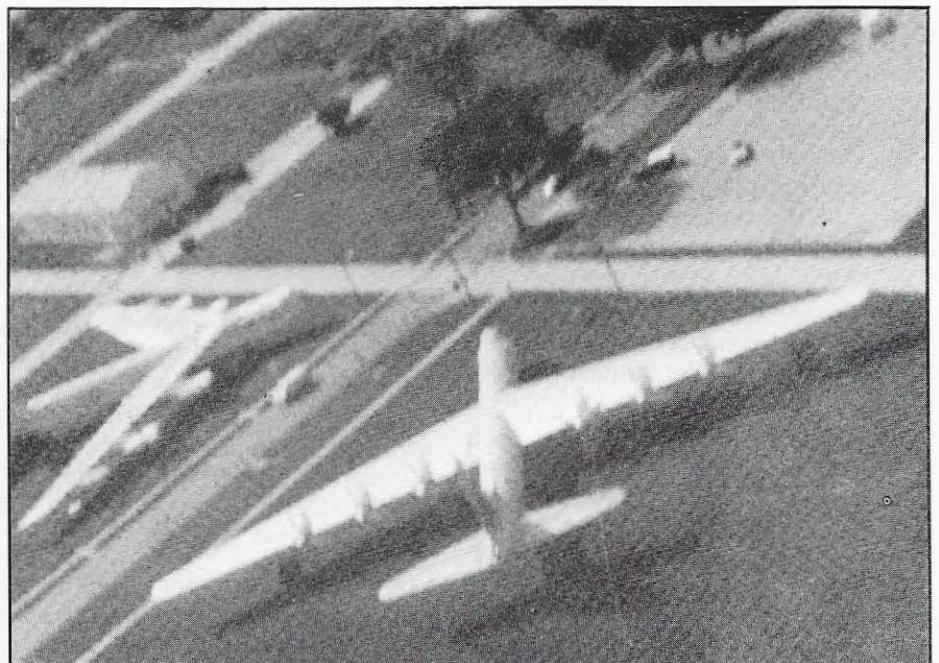
As an example, while he was on an active duty mission with the West Virginia Air National Guard at Chanute Air Force Base in Illinois, it took Steve 50 launches of his camera rocket to get the picture he wanted of a B-52 and a B-36 bomber airplane.

On a trip to Germany with the Guard, Steve had the good fortune to meet a man who helped build the Hindenberg and was on it when it exploded. "He wrote a book about his experiences," Steve says, "and I got him to sign it for me when I bought it."

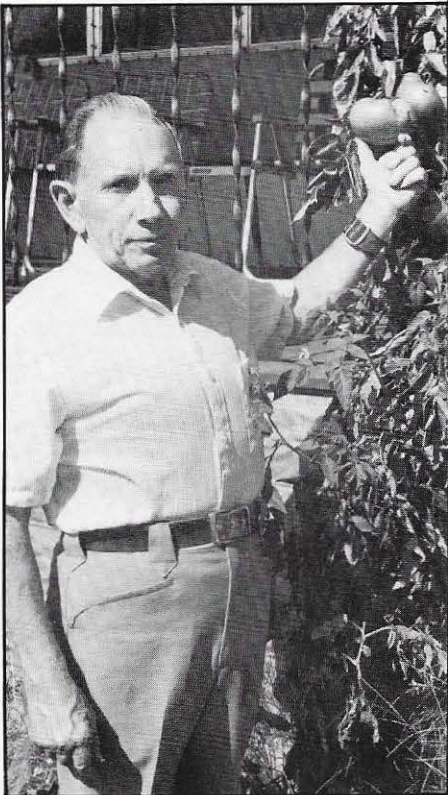
This past May Steve went to England with the Guard and was stationed at Mildenhall Air Base about 60 miles from London. "I took seven rolls of film while I was there and toured one of the air museums," he says. "The first Concord airliner ever built was on display at the museum and I climbed on board. Beautiful!"

Steve concludes, "I was once offered a chance to attend the Minute Man Missile School, but I would have had to go on active duty with the Air Force because the Air National Guard does not maintain any missiles. It was tempting, but it just wouldn't work for me because I didn't want to be away from my children." □

It took Steve 50 launches of his camera rocket to make this picture of a B-52 and B-36 bomber.



Joe worked on construction jobs across AEP System



Higgins

OVEC. Kyger Creek. Philo. Kammer. Breed. Clinch River. Tanners Creek. Cardinal. Muskingum. Amos. Gavin. Cook Coal Terminal. Mountaineer. The list reads like a "Who's Who" of major AEP construction projects. And Joseph Higgins has worked at them all during his 29 years in the AEP Construction Department.

Joe was construction stores assistant I at Mountaineer Construction before electing early retirement November 1. "It was quite a problem trying to keep up with what everyone needed when they needed it," Joe says. "If you couldn't find something one place, you just kept trying and trying until you could. Most of the time I worked under someone else, although I took care of the storeroom at the Cook

Coal Terminal by myself and was in the storeroom at Clinch River for quite a few months after everyone else had left."

He continues, "I actually started working for the power company in Point Pleasant in the late 40s. I worked for Charlie Burdette around two or two and a half years before getting laid off. Then I worked for two years at Sporn during the construction of units 3 and 4. I was laid off at Sporn in February of 1953 and they called me back in June to work for OVEC, and I've been with construction ever since.

"When my children were small, it was a problem moving them around from place to place and getting them in school. It was hard on them but they got to see a lot of country and it's something they will always remember.

"Sometimes I think I would like to go back to the places where I used to work, but I have been so busy since I've been off that I haven't been anywhere." (Joe was on vacation the month prior to his retirement.)

He adds, "I have been helping my son, who is just settling in his trailer next door. All that wood was cut off the land we cleared for the trailer," Joe said, pointing to the huge stack in his yard. "I don't have to worry about firewood for the rest of the winter."

Joe continues, "I have 38 acres grown up in grass, so there's plenty of work around here to do — if I want to do it. One thing about retirement — if you don't want to work, you don't have to. The only gardening I do is tending to these tomato vines growing up the porch trellis."

He concludes, "I don't intend to sit around because if you do, the first thing you know you are old. But it will be nice to be able to look out the window when the snow is falling and not have to get out and to go work."

If he gets too lonesome for the power company, however, all he has to do is go out on his porch, overlooking the Kanawha River, and watch the AEP coal barges winding their way upriver to Mountaineer and Sporn. □

I feel proud to be a part of Appalachian



Winn

Margaret Winn, who retired November 1 as electric plant clerk A in General Office Accounting, Roanoke, credits her brother, Kenneth, for her career with Appalachian. She says, "While I was in high school, he was very adamant about my going to work for the power company. I was not thinking in terms of going to work right after I graduated, but he insisted and I was successful in getting a job immediately."

She continues, "I came qualified for stenographic work, but Harry Gardner needed someone in accounting and asked me if I would be willing to work there. My entire 45 years of service have been spent in the accounting department.

"I came to work here a lot easier than I am getting out," Margaret says with a laugh. "There are so many procedures you have to go through in preparation for retirement."

She adds, "I feel pleased and proud to be a part of Appalachian. The com-

pany has been kind to me during my years of service. It is rewarding to look back and recall the number of people I have worked with through the years. I acquired many, many good friends here at Appalachian."

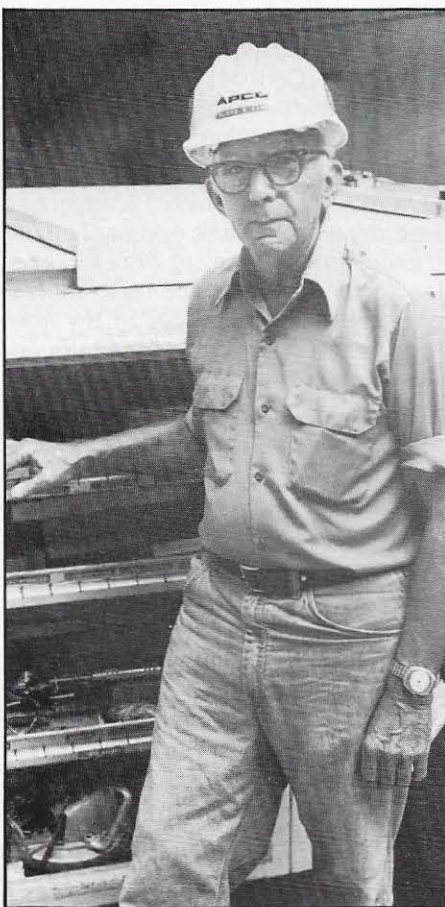
About the future, Margaret says, "I am a person who can keep busy but I don't care to make any plans. I do enjoy traveling. I look forward for opportunities of seeing many of my friends who are no longer located in Roanoke and also sharing in more good times with those who are here but no longer working. Many of us have kept 'in touch' over the years." □

I couldn't have found a better company

Floyd Edward King, who co-workers claim knows more details about how Appalachian Power's hydros are put together than any other employee, retired November 1. A maintenance mechanic A in GO Hydro, Roanoke, Floyd was the last of the original members of the GO Hydro traveling crew whose job is to perform maintenance on the 25 units in the company's 7 hydros in Virginia.

"I worked for Richardson-Wayland Electrical Corporation on the construction of the Claytor station," Floyd recalls, "and when that was finished I hired on with Appalachian as a laborer during the final phases of construction of Claytor Hydro."

During World War II, Floyd served as an MP in the U.S. Army Air Corps, with duty in Texas and England. He returned to work at Claytor and spent a total of 21 years there, rising to the position of hydro operator A. When the plant was automated, Floyd and four other Claytor employees — Bill McCraw, Lee Nance, Horace Honeycutt and Frankie Rouse — formed the first traveling crew. (McCraw and Nance have since retired; Honeycutt and Rouse are back at Claytor.)



King

One of the first major jobs of the traveling crew was assisting in the start-up operation of Leesville and Smith Mountain hydros on the Roanoke River in the mid 1960s. The present traveling crew helped in the startup of the first unit of Ohio Power's Racine Hydro on the Ohio River this past September. Since this was the last AEP hydro unit to be brought on line before Floyd's retirement, his co-workers decided that Floyd should have the honor of pushing the button to bring the unit into parallel operation with the system for the first time.

Says Hydro Maintenance Superintendent Scott McDonald, "Floyd has saved us a lot of time and money. For example, if a piece of equipment that has been working for 20 years breaks down, there's no one else in the department who has had any experience with taking it apart except Floyd." He adds, "I've worked with him for over 14 years and have never seen him lose his temper. He's the epitome of what you look for in a good

employee — he's quiet, does his job and is helpful in every way."

Dale Fisher, Smith Mountain hydro maintenance supervisor, echoes Scott's sentiments. "When I was learning this job, Floyd was a really big help in training me. He has the type personality that he can take you in hand and show you the ropes. He was also one of the first qualified switchmen and taught us all how to switch."

Horace Honeycutt, who was with Floyd on the original traveling crew, says, "Floyd's natural mechanical ability was always a big help. So much of what we did was out of the ordinary, and he was real good at working out solutions to problems."

Jim Turner, hydro maintenance supervisor for the traveling crew, sums up the feelings of all those who have worked with Floyd when he says, "We're going to miss him."

About his career, Floyd says, "I couldn't have found a better company to work for. Everyone has been awfully good to me. The work at each plant is a little bit different, and I have gotten to know quite a lot of people by traveling. One of the most interesting jobs I ever had was running a cherry picker to put divers in and out of the water to work on the screens at Smith Mountain Dam."

As for the future, Floyd plans to stay pretty close to his home at Dublin, Virginia. "I don't like to travel," he admits, "because I got enough of that tripping around the system. I have plenty of work to catch up on around the house, and I think I am going to take up fishing" — something he has never done despite the fact that he spent 42 years around water. □

I feel fortunate to have come to Appalachian



Shank

Forty-one years of payroll work came to a close November 1 when Marion Shank elected early retirement. Not all of those years were spent with Appalachian, however.

Marion, who was payroll supervising clerk in GO Accounting, Roanoke, spent the first 17 years of her career in the payroll department at the American Viscose.

"When that plant closed," Marion recalls, "I put my application in at Appalachian. I didn't get on right away; but, when Bert Miller, who was head of payroll then, lost two employees at the same time, he needed someone who was experienced in payroll work so I got the job. It's amazing the similarities between the two companies. There were hardly any differences at all.

"When I first started to work at Viscose," Marion adds, "we paid by cash. Now things have progressed to where a lot of Appalachian employees are using the direct deposit method."

Marion notes that the payrolls for Appalachian, Kingsport Power, four coal companies, Central Operating Company, Kanawha Valley Power, Amos Plant and Mountaineer Construction are all handled in the Roanoke office.

"Overall," Marion says, "I have enjoyed my work. I think Appalachian is an excellent company to work for, and I feel fortunate to have come to such a company. A lot of people in my age group who left Viscose never found anything worthwhile.

"I feel like I have been conscientious and given the best I could every day. I don't have any regrets."

Marion adds, "I have a twin sister, and we are as close as twins ever were. We both went to Radford University and then worked at Viscose. When the plant closed, she went to work for Metropolitan Life Insurance Company. She retired this past July and can hardly wait until I am home so that we can do things together. We want to do a lot of volunteer work at the hospital and in the community. There are a lot of organizations at our church, St. Andrews Catholic, which help old people.

"We don't like to travel too much but there are a few places we want to go. Now when something comes up, it's going to be nice to be able to do it instead of saying 'I'm sorry, but I have to work'.

"We won't lack for something to do. We have four acres of land and a swimming pool, and it's such a big place we can keep busy around the house. We have several nieces and nephews, who spend a lot of time there with us." □

Bolen is third in family to retire from Appalachian

When Bolen Shepherd, line crew supervisor nonexempt in the Galax area of Pulaski Division, elected early retirement November 1, he became the third member of his family to end a career with Appalachian.

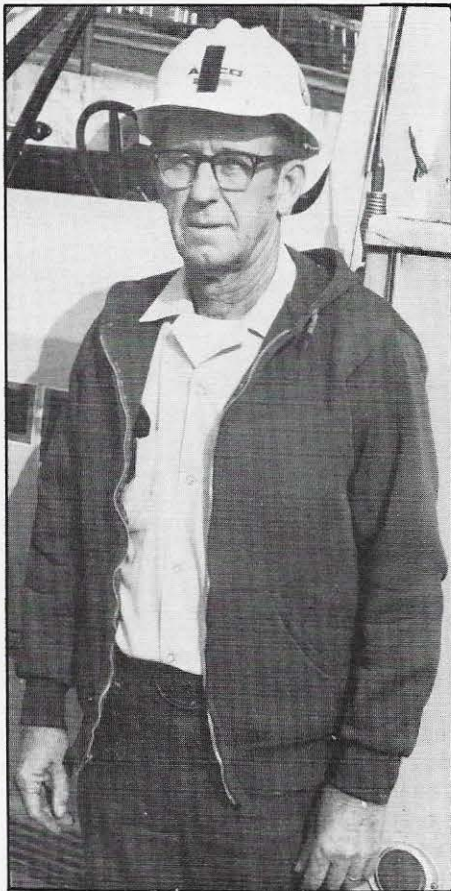
His brother, Alva, was Hillsville area supervisor when he retired three years ago. And their father, Charlie, was a service foreman at Austinville when he retired in 1947.

Bolen says, "My father first worked at the Byllesby Hydro, and I was born in one of the company houses there. When I was four, we moved to Austinville. After I got out of high school, I had a couple of other jobs before coming to work for the power company as a serviceman in 1945. I began at Austinville with my father. I remember the first call I went on. The first pole I climbed I was afraid to come down. My father was trying to tell me what to do, and I was holding on. After my father retired, I was transferred to Hillsville where I worked for approximately 16 years, first as a lineman and then as serviceman. I came to Galax in 1964 as area serviceman and then was promoted to my present position in 1977."

Bolen continues, "I was 62 in July and it took me a while to make up my mind whether to retire or not. But the winters are getting colder and it takes me a long time to get over working 16 hours, resting 8 and going back. Last winter we worked on Christmas day and every weekend for six weeks.

"I have enjoyed my work with the power company, and I am sure I am going to miss it. I was raised on the farm, and I have worked ever since I was big enough to get out and milk cows. So it seems as though I have worked all my life. Now I want to enjoy myself while my health is good.

"We have six and a half acres over in the country, and I plan to do some



Shepherd

cleaning up of the property. Some day we might move there if I get a cabin built."

One of Bolen's favorite pasttimes is hunting. "I have a special place I like to go called Little Creek. I have gotten a deer every year. The one I killed last year was my best. It had 11 points. And I bagged two big gobblers this spring.

"Another hobby I have is collecting Indian relics," Bolen adds. "I have been collecting more than 20 years, and I have the relics in a three-shelf showcase that I purchased from an old store. I plan to do more of this when I retire. Once when I was visiting my son in Suwanee, Tennessee, I found a bear tooth in a cave. One of the professors at the school where my son taught said the tooth was 3,000 years old."

Bolen has been a volunteer fireman since 1948, first at Hillsville and then Galax. "I couldn't answer any calls when I was working except on weekends," he says. "I will continue to do

things around the station although after age 60 we are not expected to be as active as the younger firemen."

Bolen said the biggest fire he ever worked was in the '50s when two Vaughan-Bassett furniture factories burned down. "We fought fire from the evening until the wee hours of the morning," he recalls.

By coincidence, the most memorable event of his Appalachian career involved a substation fire. Bolen says, "We have a station on the hill above the Hanes factory, and one of the men was supposed to open up a line at the factory. One of the cutouts didn't open up, though, and it went phase to

phase. It followed all the way back to the station, where I was, and set it on fire. I never saw so much fire, and it was real scary. Still, I am proud I have never had a lost time accident in more than 37 years."

He concludes, "My wife is looking forward to my being home. Our daughter lives in Indian Valley, and our son is in Richmond now, so it has been lonesome for her."

"We are fortunate to have five grandchildren and I hope to be able to spend more time with them." Bolen is also active in the Hillsville Masonic Lodge No. 0193. □

NEWCOMERS

Charleston

Robert Jones, electrical engineer.

Clinch River

David Stamper, utility worker B.

General Office

Gary Logan, transmission mechanic D, GO T&D Transmission, Kenova. John Higginbotham, station mechanic D, GO T&D Station, Turner. Berkley Basham, custodian, GO General Services, Roanoke.

Huntington

Peggy Harbour, junior clerk. Mark McVay, electrical engineer.

Kingsport

Billy Price, communications technician assistant.

Mountaineer

J.M. Norris, coal handler. R.D. Thompson, performance technician junior.

Roanoke

Brenda Nichols, telephone operator-division, Fieldale. Glenna Ratcliffe, junior clerk.

Philip Sporn

Joel Mark King, chemist assistant.

HUNTERS SCORE

Central Machine Shop

Irma Tinsley, junior clerk, 5 squirrels. Kenny, husband of Irma Tinsley, 145 lb. doe and 26 squirrels. Warren Lovelace, production supervisor, 23 lb., 35½-inch salmon.

tive, 100 lb. doe with bow and arrow. Gale Chase, line mechanic A, 90 lb. doe with bow and arrow. Rick Tunnell, drafter B, 75 lb. doe with bow and arrow.

Kingsport

Buford Quillin, customer services representa-

Philip Sporn

Dick Elliott, maintenance mechanic B, 6 lb. 3 oz. bass.

Employees sharpen skills through company training programs



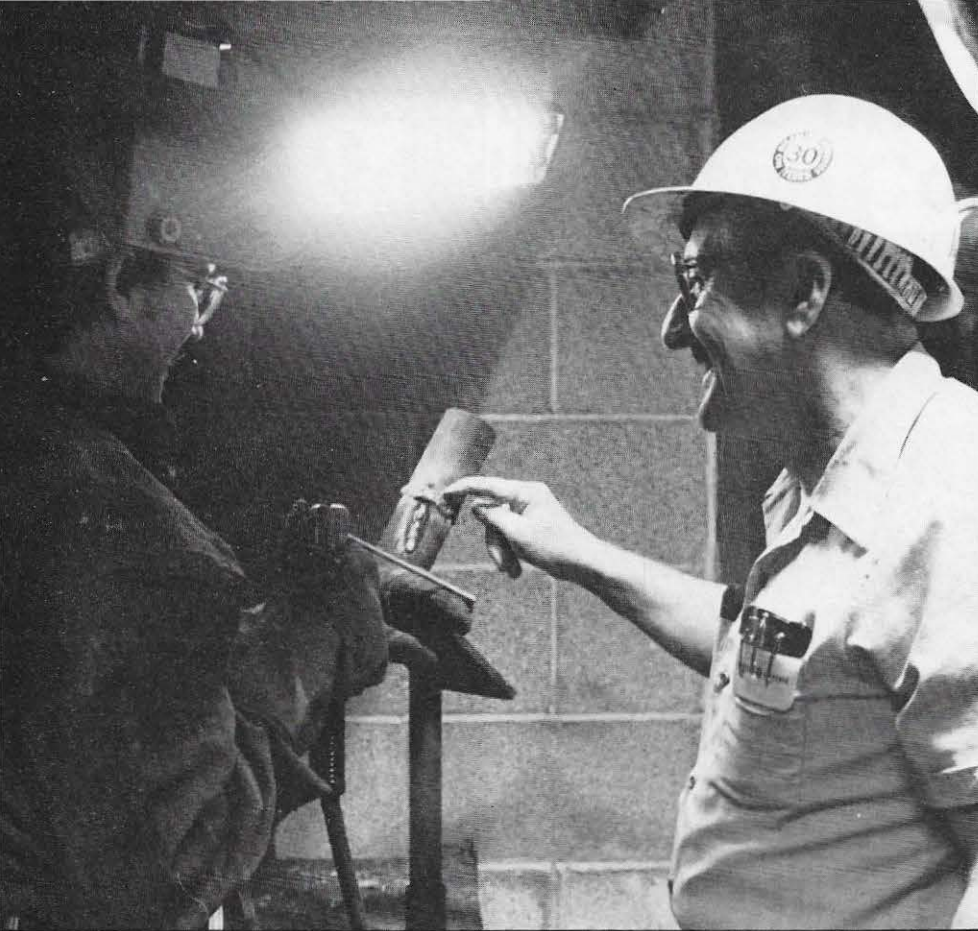
Appalachian Power Company's employee training has grown significantly in both the kinds of programs offered and number of participants since its beginning 34 years ago with Job Instructor Training. In 1981 there were 1,452 participants in 127 centralized programs directly coordinated by the GO employee relations section. In addition, other units of operation conduct programs at the local level.

The concept behind the company training is simple. "We try to conduct cost-effective training that is not readily available elsewhere," says J. Emmett Blackwell, employee relations supervisor in GO Personnel, Roanoke. "We try not to duplicate training which might be available at a local community college or elsewhere.

"Our programs are generated from several sources," Blackwell continues. "American Electric Power has developed certain training programs to be administered on a corporate basis, and we conduct them locally. And there are certain standard programs, such as safety, entry level training, line mechanic training and the like, that are run on a fairly routine basis because the company has determined these are essential to our operation."

Blackwell adds, "The major thrust of the AEP training center in Canton, Ohio, is to develop new programs as well as instruction manuals. They have developed at least 65 manuals thus far, which are divided into three groups: T&D skills training, supervisory training and power plant training.

Appalachian Power line employees can see hotstick work up close as they view a series of three video training tapes that are part of their training program for live line maintenance methods and safety. In a scene duplicated from the tapes, three Marion line mechanics, G.W. Hester, W.C. Ogle and B.A. Blevins, untie a 34.5 kv conductor from insulators and prepare to raise the conductor off the crossarm in order to gain the necessary clearance for changing the crossarm.



A self-instructional training method reduced by two-thirds the cost to certify welders. In the photo at left, Charlie Yeager (right), Philip Sporn Plant maintenance supervisor, observes as Victor Counts, maintenance mechanic A, performs welding test coupon for certification.

advise employees of their level of progress so they will know what they need to work on when they go back to their field locations. Local management is also advised of an employee's progress. Using the basic line mechanic training school as an example, if a student cannot master the basic fundamentals or does not have the aptitude to climb, we call this to the attention of his or her supervisor. We would be doing that employee and the company a disservice if we didn't.

"Again using the line mechanic training school as an example, we have three kinds of formal evaluation. There are two evaluations in the form of written exercises, and each student is evaluated daily by a crew leader. The student also receives an overall evaluation at the end of the program. Training to us is serious business," Blackwell points out.

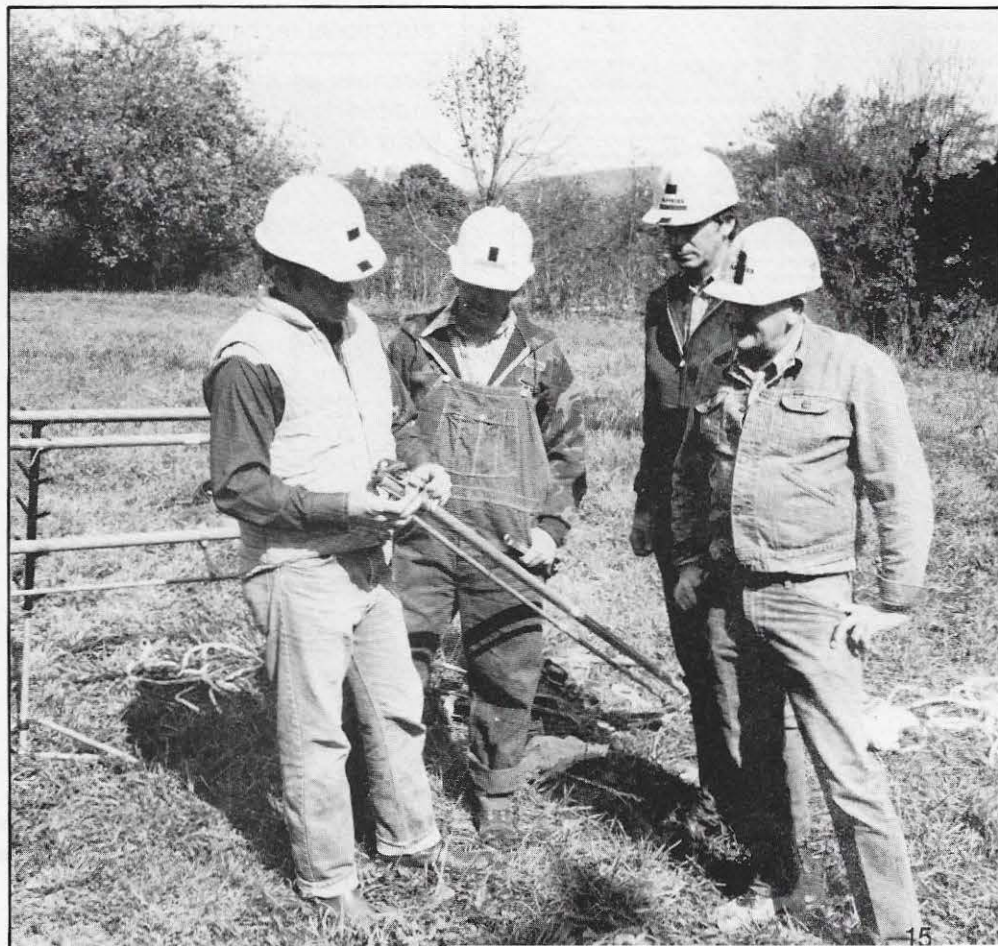
"The local number of participants in company training each year far exceeds our total number of employees. While in any given year not all of our employees receive specialized training, some participate in two or three programs, depending on their type work. We are continually trying to upgrade the skills of our physical employees from the time of entry throughout a large portion of their career. Close to 65 percent of our training generally involves physical skill classifications because of the nature of our business," Blackwell notes.

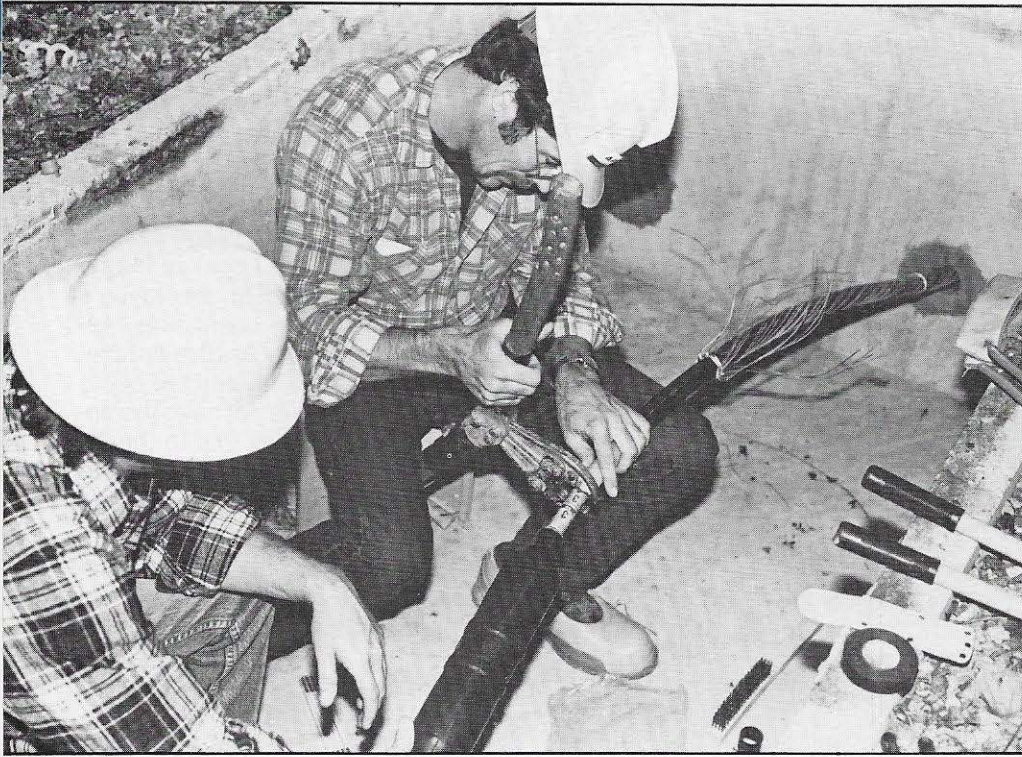
"For entry level employees, we have programs such as meter electrician training, basic station mechanic training, basic line mechanic training, underground distribution training, and the like. Even if a new employee has previous experience with another utility or contractor crew, we like to train him or her in our approach to the job. We might have different procedures and tools from what they have been using and, of course, we always put a special emphasis on safety."

Buddy Umberger (left), Wytheville line crew supervisor nonexempt, explains the operation of a live line tool to Sonny Westmoreland, Galax line crew supervisor nonexempt; Tommy Alderman, Hillsville area service restorer; and Tater Anderson, Galax line mechanic A. Six live line training schools have been held in Pulaski this year.

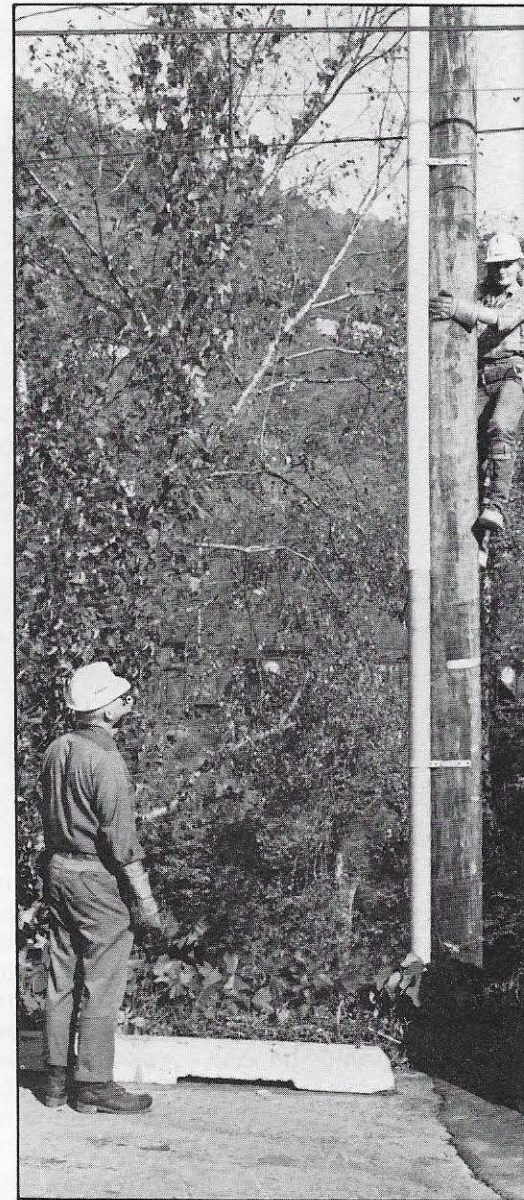
While there are no pass-fail exams at the end of the training programs, there are what is known as 'performance critiques'. Blackwell says, "We

"We at Appalachian are unique in one respect. We do not maintain a large training section. Rather, we develop our own instructors throughout the company. We solicit expertise in a





Dallas Fuller (left), Huntington line mechanic A, observes as Gerald Cunningham, Lynchburg line crew supervisor nonexempt, gets hands-on training in splicing an underground cable at the underground residential and distribution training school in Roanoke last month.



Kim Aliff, Williamson station mechanic B, demonstrates for Charlie Burchette, line crew supervisor exempt, the climbing skills she acquired at a recent line mechanics training school.



Sam Hartman (left), personnel assistant, and Emmett Blackwell, employee relations supervisor, discuss program plans for the new basics of supervision training.

subject area and provide instructor training. We, therefore, obtain knowledgeable people who actually acquire additional knowledge through preparation of lesson plans and instructional techniques."

Because of the efficiency of standardized training locations, the company conducts its line mechanic, station mechanic and underground schools at either Abingdon or Roanoke, where the required facilities are in place. Personnel Assistant Sam Hartman has the primary responsibility for coordinating the standardized training programs. He also works with Blackwell in the coordination and development of training programs which are conducted on a local basis in a division or plant. They work through the various personnel supervisors or, in the case of the larger Amos, Mountaineer and Sporn plants, training coordinators.

New training programs are being added as the need arises. "We work very closely with the GO T&D Distribution Section in developing a number of programs," Hartman says. "Four fine examples are the live line tool training, underground distribution training, and basic and advanced station mechanic training. We're very excited about these."

Jim Reid, distribution supervisor, works with the employee relations section to ensure that the procedures and techniques taught in the new programs prescribe to company standards. He says, "When people from all over the company come in and learn safer and more productive work methods, it can't help but benefit the company. It also provides us an opportunity to standardize procedures and equipment used for various jobs." □

Tim captures 18 photography awards in Mason County Fair

"This year I had a goal," says Philip Sporn Utility Worker Tim Tucker. "I wanted a ribbon — it didn't make any difference what color — on half of the photographs I entered in the Mason County Fair."

Tim more than exceeded his goal by winning 18 ribbons on 21 entries. Included were one blue, eight red, six white and the rest fourth or fifth place ribbons. He entered the fair competition for the first time last year and won a single ribbon out of eight entries. There are 26 separate categories in the photography contest.

Tim's interest in photography dates back to his childhood. "I remember my granddaddy chewed tobacco, and there was a camera advertisement on the back of one of his tobacco pouches. My folks sent away for the camera, and I took a few pictures with that, but it wasn't what I wanted."

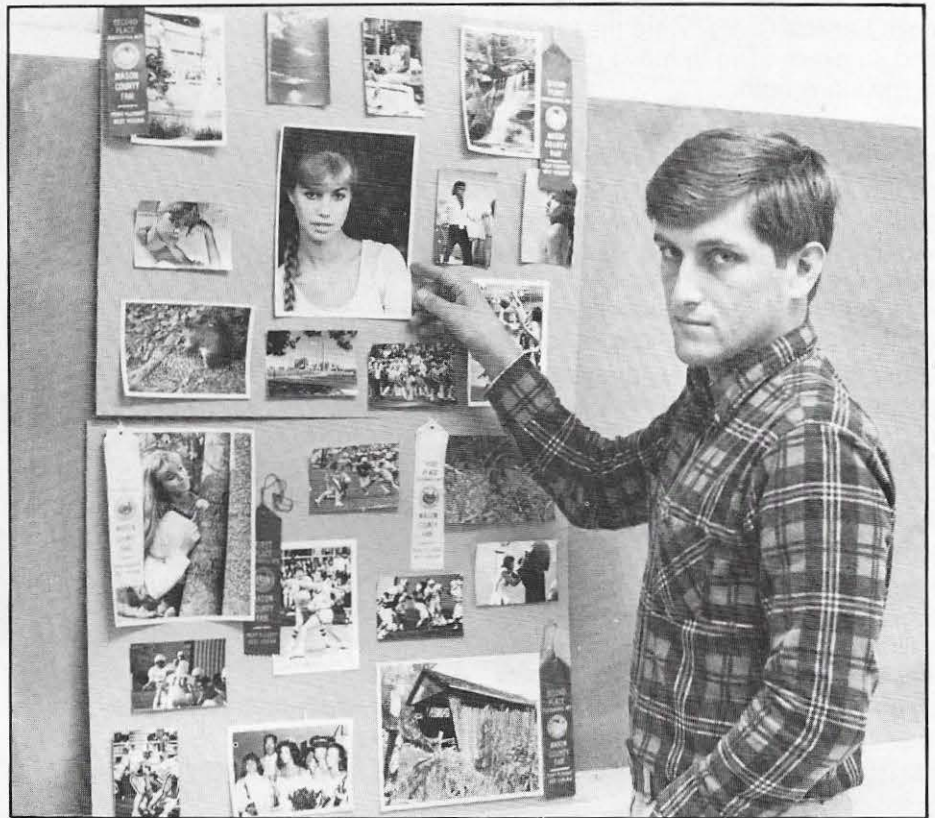
Tim continues, "As I got older, a buddy of mine started developing his own pictures, and I got interested, too. In the meantime, Mom got a new camera and gave me her old one. Later, when I got out of school and could afford it, I bought my Canon AE1 and six lenses.

"Within the last few months, Dad and I took part of the garage and made it into a darkroom. We just got the water hooked up recently and are still working on it. But now I develop all my black and white photos."

Tim adds, "I have been working on a New York Institute of Photography home study course about eight months. It's something I can do in my spare time, but it doesn't seem like I have too much of that any more. I'm usually out taking pictures."

Tim's favorite subjects are sports and beautiful women. "Right now I am using a cousin as the model for a lot of my photos, and I have another cousin I am trying to get to model for me," he says. "Meigs High School has used a lot of my sports pictures in their annual, and I have sold some to Wahama High, too.

"Last year was a real experience for me. Another cousin was taking sports pictures for the Daily Sentinel in Pom-



Tim Tucker displays the photos he entered in the Mason County Fair.



Enterprising Tim had posters printed to sell, using some of his sports pictures.

eroy, Ohio, and he asked me if I would take them for the last three games of the season. There are three schools in Meigs County, and it kept me busy several nights a week. I followed one of the schools, Southern High, all the way to the state tournament in Columbus."

Tim concludes, "Photography pretty well occupies my spare time, but I love it. I have hopes of becoming a parttime photographer for one of the local papers some day." □

Tom's ahead of his time in transportation

Until late this past summer, the only electric-powered vehicles at the Roanoke Service Center were the forklifts and stackers used to move materials in the storeroom.

Off the road, in other words.

Then, there appeared a small white oddity among the pick-up trucks and cars on the parking lot. Where these internal combustion gas-drinkers went vroom when the accelerator was depressed, this little white thing went: click, wheee, click, wheee...

This glorified golf cart with a passenger compartment belongs to Tom Walker, electrical engineer senior. Attracted by the concept of using domestic fuels in place of foreign oil, Tom has had an interest in electric cars for some time.

He describes how he and the car got together: "I had been thinking of building an electric vehicle. I was looking for a car anyway when I saw an ad in the paper for an electric car. "So, I went to look at it, not necessarily to buy, more for future reference."

It would be difficult to attribute the acquisition to love at first sight. Nevertheless, Tom took possession of the battery-powered Vanguard Citi Car. Some rewiring and replacement of two of the car's eight batteries were required to make the car operable. Ever since, he has been driving it back and forth to work.

Those with an appreciation for automotive history know that electric vehicles dominated the horseless carriage trade in the United States in the late 1890s and early 1900s. Owners liked the battery-powered cars because they were easy to operate, ran quietly and did not smoke. But the top speed was about 20 mph, and the batteries had to be recharged every 50 miles. The low speed and lack of range caused the electric cars to lose popularity to the developing gasoline-powered cars.

In a sense not much has changed. The same pluses for electric cars still hold true. So do the negative aspects.

As you can imagine, with virtually no moving parts, maintenance is a cinch. "All I have to do is read a hydrometer and add water to the battery. And that doesn't cost anything since you can



Tom Walker drives to the beat of a different drummer in his 1976 Vanguard Citi Car.

get distilled water from a dehumidifier," Tom says.

Energy, he has found, is also very inexpensive. Charging his battery pack to make an 11½-mile round trip from home to work requires only 6 kilowatt-hours or 30 cents.

"The electric car concept is very efficient in terms of energy costs. I was spending about \$3 per day on fuel with my truck," he said.

The vehicle is basic transportation, and that is about all. It does have a radio. "The car doesn't have much in the way of waste energy. A heater, which it doesn't have, would detract," he says. Tom is considering connecting the accessories, such as head and tail lights, and radio to a separate battery so that they are isolated from the power surges on the main power pack.

A trip to the World's Fair in Knoxville was an eye opener for Tom, as far as electric car research is concerned. "There were a lot of electric cars at the Fair. One, for example, had styling along the lines of a Datsun 240Z. At 70 mph, it has a 60-mile range. At 35, which is optimal, the manufacturer claims a 120-mile range.

"Also, the Canadians are working on an aluminum-air battery that is non-rechargeable. It would have a 2,000 or 3,000 mile range, and you would

just turn it in and get another pack."

Although it appears that a breakthrough is several years away, Tom says, "There is a real promising future in terms of battery development. There can be some real improvements without driving the costs to the point of being non-competitive with a gasoline car."

As far as the nation as a whole is concerned, he thinks the rationale for electric vehicles already exists. "The motivating factor in the shift toward the electric vehicle for people in general involves the concept of getting away from foreign oil and shifting toward domestic coal. It is economically desirable for me individually and for the nation as a whole. As far as the company is concerned, the usage of electricity to charge batteries between midnight and 6 a.m. would have a positive impact on our load factor."

But, until the rest of the country catches on, Tom will continue to drive to the beat of a different drummer and to endure the stares and chuckles prompted by his 3½ horsepower pudle jumper. □

WHO'S NEWS

Abingdon

Pete Montague, division superintendent, was appointed to a one-year term as secretary-treasurer of the Appalachian District of Civitans International. □

John Amos

Anji, daughter of Phil Chatting, laboratory technician supervisor, was chosen to participate in the 1982 mathematics and verbal talent search. She was the recipient of an honor award presented by Johns Hopkins University during a ceremony at the state capitol for those scoring highest in the State of West Virginia. Anji and her brother Tim have participated in the Kanawha County program for the gifted. □

Glen Lyn

James, son of J.C. Sutphin, unit supervisor, has been selected for inclusion in the 1981-82 edition of "Who's Who Among American High School Students." He is ranked first in the senior class at Oakvale High School and is a member of the National Honor Society. He is a past winner of the West Virginia Golden Horseshoe and has earned varsity letters in baseball and basketball. □

Lynchburg

Dick Shepard, customer accounts supervisor, won the men's golf tournament at Blue Hills Golf Club in Roanoke. He scored one over par for a gross score of 212 in the 54 holes of the three-day tournament. He was named champion golfer at Blue Hills for the year. The following week, Dick paired with Jerry Friddle of Canton, Ohio, to win the Blue Hills Member-Guest Golf Tournament with "best ball" scores of 62 and 64.

Jim Dalton, station supervisor non-exempt, was elected Sunday School superintendent of Terrace View Union Church for the second consecutive year. □

Logan-Williamson

For the second consecutive year, **Tammy**, daughter of Line Crew Supervisor Eugene Hatfield, was selected as "Miss Majorette 1982" at the Fred J. Miller Camp at Marshall University. She also won three superior, two first-place and two second-place ribbons. Tammy, who is captain of the Belfry, Kentucky, High School majorette squad, is a member of the United



States Twirling Association and a U.S. national award winner in band and majorette. She is also a member of the National Honor Society, Distinguished Teens, Student Council, Chemistry, Spanish and Pep Clubs and the band committee.

G.B. Trent, retired Williamson electrical engineer, scored a hole-in-one on the par 3, 134-yard 12th hole at the Tug Valley Country Club.

Paul Owens, Williamson area superintendent, was installed as secretary/treasurer of the Williamson Rotary Club. □

Mountaineer

Shirley Morrow was a member of the Mason County Merchants women's softball team which won the West Virginia Class C state tournament. The team is managed by her husband **Dan Morrow**, coal equipment operator. □



Philip Sporn Plant completed its 1982 softball season with the Performance Department finishing first in a six-team league. Members of the winning team are: kneeling, l. to r., Buddy Peaytt, Joe Gulley, John Michaels, Bill Morgan, Jim Cotterill and Ralph Ross. Second row, l. to r., Vinton Rankin, Kelly Hawk, John Davis, Steve Jarvis, Mike Stewart and Randy Nicewonder.

General Office

Guy Ferguson, engineering technician senior, GO T&D Station, Roanoke, has graduated from Radford University with a bachelor of science degree in business administration - management option. He also holds an associate in applied science degree in electrical engineering technology from Virginia Western Community College.

James Michael Fowler was promoted to the rank of major in the U.S. Air Force at Edwards Air Force Base, California. He is the son of Frankie Fowler, meter clerk A, GO T&D Meter, Roanoke.

David, son of Ronnie Looney, station mechanic A, GO T&D Station, Roanoke, was elected vice president of the New Castle High Art Club. He also plays lead guitar in a local band.

Jimmy, son of Ronnie Looney, station mechanic A, GO T&D Station, Roanoke, is listed in "Who's Who Among American High School Students" for 1981-82. He also won a 1982 United National Award in mathematics award

from the United States Achievement Academy. Jimmy was nominated by his math teacher for completing a geometry class with a final average of 99. Jimmy was also elected president of the Craig County Schools Student Council Association for 1982-83 and attended an SCA workshop at Ferrum College this fall. He plays bass guitar in a local band.

Bobby, husband of Joyce Lawson, secretary, GO Accounting, Roanoke, scored a hole-in-one at Countryside Golf Course last month. He was using a 5-iron on the par-3, 200-yard 11th hole.

Susan, daughter of Fred Mitchell, transmission line supervisor, GO

T&D, Bluefield, has been selected for membership in the Pulaski County High Chapter of the National Honor Society.

Mary Anne, daughter of Buren Carter, statistical accountant, GO Accounting, Roanoke, has been selected for listing in the 1981-82 edition of Who's Who Among American High School Students. A senior at Roanoke Catholic



High, she is president of the Drama Club, co-chairperson of the Future Business Leaders of America, and a member of the Latin Club, Pep Club and choral group.

Roger Jones, president of the Roa-

noke Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), received the presidential award of excellence for the Roanoke Chapter at the annual conference. The award is given to those chapters which earn a set minimum of points each year for their activities in education, energy conservation, membership activities and research and development fund raising. The Roanoke Chapter is one of six which has won this award every year. Roger is energy services coordinator, GO Customer Services, Roanoke.

Don Linkous, communications specialist, GO T&D Communications, Abingdon, was named special gifts division chairman for the United Way of Washington County, Va. He has been a board member of the organization for six years. □



The first annual Appalachian Power Company and Norfolk-Southern Railway Company tennis challenge match was held in Roanoke on September 25. The APCo team, made up of Roanoke-based employees, won all seven matches in the best of seven tournament. Members are, l. to r., Jim Cook, electrical engineer, GO T&D Engineering; Wayne Sink, relay engineer senior, GO T&D Station; Jim Salter, operations engineer, GO Operations; Chip Gentry, electrical engineer, GO T&D Engineering; Jeff Danforth, purchasing and stores staff assistant senior, GO Purchasing; and Wind Martin, station construction representative senior, GO T&D Station.

Pulaski



Bob Kilgore, division superintendent, was installed as president of the Pulaski Kiwanis Club for 1982-83.

Debbie Grubb and **Carol Brockmeyer** are members of the Bank of Virginia softball team which won the bank's annual tournament in Richmond for the second consecutive year. The team's record was 4-0 for the round robin tournament. Debbie is a customer accounts representative C, and Carol is the wife of Wally Brockmeyer, line mechanic A.

Louise, wife of Retiree Charlie Settle, was elected to a two-year term as vice chairwoman of the Governor's Advisory Board on Aging.

Jackie, widow of Clyde Sharp, former Galax area service restorer, has been promoted to personnel manager of Fries Textile Company.

Charlotte, wife of David Shrewsbury, engineering technologist, has been promoted to assistant vice president of the First Virginia Bank of the Southwest.

Danny, wife of Debbie Grubb, customer accounts representative C, has been selected for inclusion in the 1982 edition of Outstanding Young Men of America.

Everette Crawford, general line supervisor (LTD), and his wife **Goldie** won \$100 in a sweepstakes promotion of Associated Cemetery Estates of Beckley, West Virginia, of which Highland Memory Gardens of Dublin is a member.

Martha Whitehurst Chapman, daughter of Division Manager Jerry Whitehurst, had an article published in the August 1982 issue of *The Roanoker* magazine. Her piece covered the history of two resort hotels built around natural mineral springs, whose heyday was in the late 1800s. The hotels, originally owned by F.J. Chapman, great grandfather of

Martha's husband Jim, were Red Sulphur Springs near Catawba and Lake Spring in Salem.

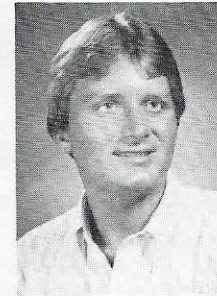
Sarah Jane, wife of Larrie Bucklen, Wytheville customer services representative senior, was honored posthumously as nurse of the year by the Wytheville Community Hospital during Nurse's Week.

Sharon, daughter of Arlie Parsons, Wytheville line mechanic A, was named student of the week at George Wythe High School. A senior, she is secretary of the Future Business Leaders of America and National Honor Society; vice president, senior class; member, art club, My Alpha Theta, Girls' Athletic Association, Keyettes and varsity basketball team.

Mary, wife of Division Manager Jerry Whitehurst, had a one-woman exhibition of her new watercolor series, "Summer Porches-Summer People," at Byars Hall, Emory & Henry College during October. She also had other paintings on view in the Lewis-Gale Foundation's Invitational Show which featured the work of 83 top artists in

Virginia. The exhibition was held at the Foundation's Center in Salem.

Roanoke



David, son of Ralph Amos, general line supervisor, has been selected as the Senior Scholar in the Department of Foreign Languages (French) at Roanoke College.

Doyle V. Hamilton, engineering technician, graduated from Virginia Western Community College with an associate in applied science degree in electrical/electronics engineering technology. □



Chester Robinson, meter reader in the Galax area of Pulaski Division, shot a 78 to win the second annual Black Golf Tournament in Boone, North Carolina. He also fired another 78 to take the first place trophy in a tournament at Crestview Golf Course in Ennice, N.C.

WEDDINGS



Merritt-Butcher



Sherrod-Buchanan



Buston-Brown

Karen Lea Butcher to William Paul Merritt, August 7. Karen is the daughter of Jimmie Butcher, Logan-Williamson area service restorer (LTD).

Melanie Ann Buchanan to S. Marc Sherrod, August 28. Melanie is the daughter of Bucky Buchanan, Abingdon customer services representative.

Patricia E. Brown to **Steven B. Buston**, September 4. Steven is the son of Harry L. Buston, III, Bluefield meter electrician A.

Elizabeth Ann Boyette to **Robert Stewart Hawkins**, Lynchburg meter reader, September 11.

Twana Gallimore to **William O. Qualls, Jr.**, Philip Sporn Plant utility worker A, September 4.

Dianna Londeree, Oak Hill customer accounts representative C, to **Bob Dyke**, Oak Hill line mechanic A, July 31.

Carolyn M. Hogan, purchasing entry operator senior, GO Purchasing, Roanoke, to **William Charles Noell, Jr.**, September 10.

Cynthia Marie Blackwell to **Harry W. Pickens, Jr.**, maintenance mechanic B, Centralized Plant Maintenance, September 11.

Pamela M. Milan, computer graphics technician, GO T&D Computerized Drafting, Roanoke, to **Jeffrey W. Gruver**, September 18.

Nancy Fleming, Pulaski meter electrician B, to **Stephen Malley**, Pulaski meter reader, October 2.

BIRTHS

John Amos

Carissa Nicole, daughter of **Leslie Ward**, utility worker, September 11.

Tina Lynn, daughter of **Timothy Hardman**, coal handler, September 29.

Beckley

Jonathan, son of **Dale Miller**, Rupert line mechanic C, September 17.

Charleston

Courtney Lynn, daughter of **Ed Stone**, customer accounting supervisor nonexempt, September 24.

Kevin Scott, son of **Kathy Lloyd**, customer accounts representative C, September 16.

Megan Kathleen, daughter of **Roger Harrison**, meter electrician C, September 13.

Charles Garrett, son of **Chuck Bibbee**, line mechanic B, September 23.

Clinch River

Ashley Lauren, daughter of **Michael Witt**, unit supervisor, July 23.

General Office

Alicia Rene, daughter of **Fairly Honaker**, engineering technologist, September 15.

Glen Lyn

Amber Nicole, daughter of **Homer Forren**, utility worker B, September 14.

Logan-Williamson

Sean Edward, son of **William Bradsher, Jr.**, Logan engineering technologist, September 20.

Mountaineer Construction

Stephanie Nicole, daughter of **Edward Young**, civil construction assistant II, August 2.

Matthew James, son of **James Shell**, stores construction assistant I, September 28.

Mountaineer

Albert Isaac, son of **Roger Stearns**, control technician, August 7.

Amber Nicole, daughter of **Carl Legg**, coal equipment operator, August 23.

Michael O'dell, son of **Ralph Bowling**, maintenance mechanic B, August 23.

Lindsay Rene, daughter of **Jim Greene**, coal equipment operator, October 7.

Pulaski

Emily Suzanne, daughter of **Carl Martin**, Galax meter reader, August 21.

Victoria Renee, daughter of **Don Abernathy**, electrical engineer, October 4.

Julia Lynette, daughter of **Joe Conrad**, Christiansburg line mechanic A, October 4.

Roanoke

Michael Lee, son of **David Nance**, Fieldale energy services engineer, August 7.

Philip Sporn

David Seth, son of **David Hill**, utility operator, July 19.

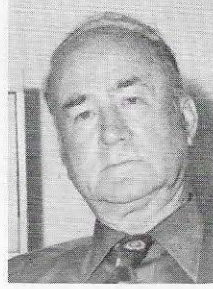
Danyal Renee, daughter of **Kimberly Litchfield**, plant clerk C, August 16.

Jeremy Alan, son of **Mack Gillilan**, utility worker B, September 15.

FRIENDS WE'LL MISS



William C. Safford, 60, chief electrical construction, Mountaineer Construction, died September 28. A native of Gallipolis, Ohio, he was employed in 1967 as electrical construction assistant I on Muskingum Unit 5. Safford is survived by his widow Violet, 512 Kathnor Lane, Point Pleasant, W. Va.; two sons; two brothers, and five grandchildren.



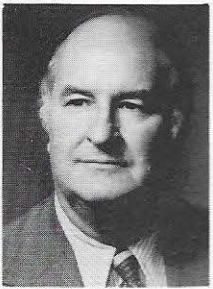
Robert S. Hylton, 74, retired Pulaski meter serviceman A, died October 1. A native of Bland County, Virginia, he began his career in 1935 as a lineman and retired September 1, 1974. Hylton is survived by his widow Bertha, P.O. Box 74, Bland, Va.; four sons; two sisters; one brother; nine grandchildren and four great grandchildren. His son, Bobby, is a general servicer at Princeton.



Lyman C. Valley, 67, retired Gate City area supervisor (Abingdon Division), died October 5. A native of Grundy, Virginia, he was employed in 1934 as a lineman B in the Clinch Valley District and retired February 1, 1977. Valley is survived by his widow Myrtle, 260 Henderson Court, Abingdon, Va., and two sons. His son, Bill, is Roanoke Division line superintendent.



Elmer D. Vaught, Jr., 50, station supervising engineer, GO T&D Station, Roanoke, died October 5. A native of Roanoke, Virginia, he was employed in 1958 as an electrical engineer. Vaught is survived by his widow Linda, 3633 Oaklawn Avenue, Roanoke, Va.; one daughter and his mother.



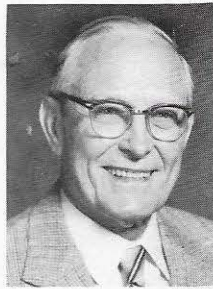
Paul L. Bailey, 68, retired Lynchburg division superintendent, died October 10. A native of Bluefield, West Virginia, he began his career in 1935 as a groundman in Roanoke and retired December 1, 1978. Bailey is survived by his widow Marie, 1015 Chowan Avenue, Lynchburg, Virginia; one son; one daughter and two grandchildren.



Arnold J. Conley, 67, retired Clinch River Plant unit supervisor, died October 18. A native of Chapmanville, West Virginia, he was employed in 1943 as a coal handler at Logan Plant and retired September 1, 1980. Conley is survived by his widow Ida Rose, Box 772, Lebanon, Virginia; and one son.



Cecil C. Brown, 84, retired Glen Lyn Plant switchboard operator, died October 10. A native of Boyd County, Kentucky, he was employed in 1923 as a laborer and took early disability retirement on July 1, 1958. Brown is survived by his son, D.C. Brown, outage coordinator at Philip Sporn Plant.



Burnette Caldwell, 82, retired supervisor of budgets and special reports, GO Accounting, Roanoke, died October 5. A native of Sinking Creek, Virginia, he began his career in 1927 as a clerk and retired December 1, 1964. Caldwell is survived by two sons, one sister and two grandchildren.



Milton Albert Cole, 67, retired Huntington equipment service representative senior, died October 14. A native of Detroit, Michigan, he was employed in 1945 as an appliance serviceman B at Williamson and retired September 1, 1980. Cole is survived by his widow Josephine, 214 Wilkinson Street, Huntington, W. Va.; one daughter; one son and one stepson.

Oscar B. Cole, 82, retired Bluefield substation operator A, died October 8. A native of Princeton, West Virginia, he was employed in 1922 as a helper and took disability retirement on March 1, 1949. Cole is survived by his widow Ruby, 300 Parkdale, Bluefield, Virginia. □

SERVICE ANNIVERSARIES



Kenneth Lazenby
r/w supervisor
GO-Beckley
45 years



Dorothy Lawless
secretary-steno.
Bluefield
40 years



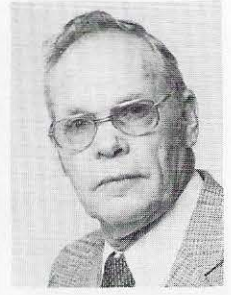
June Winner
personnel clk. A
Beckley
40 years



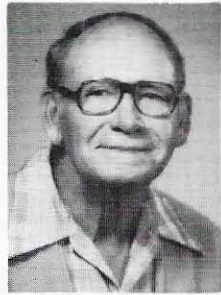
Vernon Costello
eng. technician sr.
Charleston
35 years



Paul Jeffrey
head meter reader
Logan-Williamson
35 years



Jesse Williamson
gen. line supv.
Kingsport
35 years



John Porter
station mech. A (LTD)
Lynchburg
35 years



Chester Elkins
building supervisor
Logan-Williamson
35 years



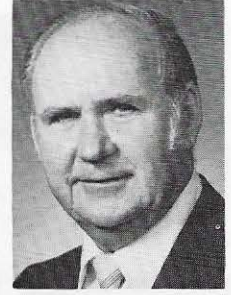
Luke Kesterson
cust. serv. rep. sr.
Kingsport
35 years



Jim Thomas
r/w agent sr.
GO-Roanoke
35 years



Millard Phillips
station mech. A
Logan-Williamson
30 years



Paul Synan
trans. mechanic A
GO-Bluefield
30 years



Rufus Meade, Jr.
gen. line supv.
Logan-Williamson
30 years



Jimmie Creasey
instrument mech. A
Kanawha River
25 years



Tom Durrett
general servicer
Charleston
25 years



Ellis Sult
transmission insp.
GO-Bluefield
25 years



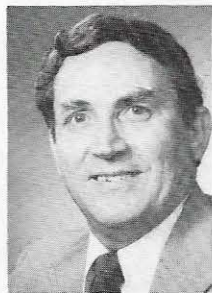
Frances Marcum
secretary
Bluefield
25 years



Lois Smith
cust. acctg. supv. NE
Roanoke
25 years



Lewis Chittum
control electrician A
GO-Roanoke
25 years



W.H. Vance
drafter A
Bluefield
25 years



John Campbell
head custodian
Pt. Pleasant (Htg.)
25 years



Purcell Humphreys
line crew supv. NE
Roanoke
20 years



John Wilmer
office supervisor
Roanoke
20 years

Abingdon

15 years: Frank Hanson, customer servicer. 5 years: Linda Kegley, stenographer. Fred Sauls, line mechanic C.

John Amos

10 years: Nancy Hudson, plant clerk A.

Beckley

15 years: Darrell Allen, stores and garage supervisor. Bob Dyke, Oak Hill line mechanic A. Wayne Farley, engineering technician senior. Tom Puffenbarger, Rupert line mechanic A. 10 years: Eileen Worley, stenographer. 5 years: Trina Griffith, customer accounts representative C. Eugene Pritt, Oak Hill line mechanic B.

Bluefield

15 years: Stuart Shinault, line construction and maintenance representative. Larry Stiltner, line crew supervisor nonexempt. 10 years: Lionel Hall, general servicer. 5 years: Dennis Cole, line mechanic C. Michael Richardson, line mechanic B.

Central Machine Shop

10 years: Gene Peyton, winder 1st class. Sam Craddock, production superintendent. 5 years: Darrell Bledsoe, production supervisor.

Charleston

15 years: David Morris, line mechanic A. Burl Miller, line mechanic A. Harold Surface, line mechanic A. Larry Samples, line mechanic A. 5 years: Roger Harrison, meter electrician C. Ricky VanMeter, line mechanic B.

Clinch River

5 years: Angeletta Wilson, utility coal attendant.

General Office

25 years: Robert Harper, property representative A, GO Land Management, Charleston. 15 years: George Arnold, general records clerk A, GO Accounting, Roanoke. Buren Carter, statistical accountant, GO Accounting, Roanoke. Carlton Updike, station mechanic A-GO, GO T&D Station, Roanoke. Ruth Manning, supervising data entry operator, GO Accounting, Roanoke. DeWynn Adams, station mechanic A-GO, GO T&D Station, Roanoke. 10 years: Bettye Kinzie, classification and accounts payable clerk A, GO Accounting, Roanoke. David Childress, hydro engineer senior, GO Hydro, Roanoke. Linda Gray, engineering technician assistant, GO T&D Civil Engineering, Roanoke. 5 years: Richard Frazier, station mechanic A-GO, GO T&D Station, Huntington. Kenneth Norman, transmission mechanic B, GO T&D Transmission, Roanoke. James Merritt, stores attendant, GO T&D Stores, Roanoke.

Huntington

15 years: Jerome Bradburn, meter reader.

Kingsport

15 years: Jack Hunt, line mechanic A.

Logan-Williamson

35 years: Betty Roach, T&D clerk A. 25 years: William Hatton, collector. 15 years: Mason Grimmett, Jr., area service restorer. 5 years: Anthony Mendez, line mechanic D.

Lynchburg

10 years: Ralph Bird, Jr., energy services engineer. Preston Burnette, station mechanic B. 5 years: Valerie Trent, meter reader.

Mountaineer

10 years: Len Haid, maintenance supervisor. 5 years: Matt Roush, engineer B. Bill Osborne, coal handler. Larry Rupe, performance technician. Don Nelson, plant clerk B. Sherry Flesher, plant clerk.

Pulaski

15 years: Sam Malley, meter reader. Barry

Hicks, engineering technician. 5 years: Jerry Fleeman, meter reader. Knox Worde, electrical engineer. Buddy Felts, meter electrician B. Barbara Pope, meter reader.

Roanoke

10 years: Marshall Karnes, meter electrician B. Merle Wykle, line mechanic A. 5 years: Douglas Turner, station mechanic B. Cathy Doyle, T&D clerk B. Emma Clark, station mechanic B. David Nance, energy services engineer. Michael Lugar, station mechanic C. Brian Sheetz, station mechanic C. James Hyler, meter reader.

Philip Sporn

30 years: Tommy Simmons, harbor boat operator. Paul Forbes, chemist assistant. 5 years: Patty Hill, maintenance mechanic B. Terry Benson, maintenance mechanic B. Joseph Forbes, Jr., maintenance mechanic B. James Jones, maintenance mechanic B. □

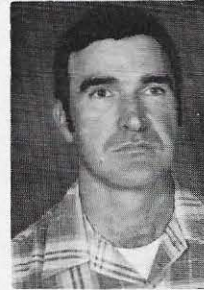
PROMOTIONS



Crabtree



Ratcliff



Bobbitt



Davis

David H. Crabtree, Bluefield Division customer services supervisor, has been promoted to customer services manager in the GO Customer Services Department, Roanoke, effective October 1. He succeeds Glenn H. Reynolds, who earlier was promoted to Abingdon division manager. Crabtree holds a bachelor of science degree in agricultural engineering and a masters in business administration from Virginia Polytechnic Institute and State University.

Martin L. Ratcliff, customer services associate, GO Customer Services, Roanoke, was promoted to Bluefield customer services supervisor on

November 1, succeeding David H. Crabtree. He holds a certificate in business administration from International Correspondence Schools.

Elwood Bobbitt, Hillsville line mechanic A, was promoted to line crew supervisor nonexempt in the Galax area of Pulaski Division on October 16. He succeeds Bolen Shepherd, who retired.

Harden L. Davis, station mechanic A, was promoted to transmission station supervisor nonexempt in GO T&D Station, Roanoke, on September 4. He succeeds O.V. Middlekauff, who is on long term disability leave. □

Bernard handcrafts hunting knives



Bernard Balsler displays some of the knives he's made.

Like hunters everywhere, Bernard Balsler is eagerly awaiting the opening of deer season this month. Hopefully, he'll get a chance to try out one of the hunting knives he's made recently.

An equipment operator at Kanawha River Plant, Bernard started out by making a butcher knife for his wife Karen. "After that was completed," he says, "Jim Poore (unit supervisor), the man I work with, suggested I make hunting knives. Since I love to hunt, I thought I'd give it a try.

"There are only five or six knife

makers in West Virginia," Bernard says. "The number one knife maker in the whole country lives in Red House. Another one who has been at it a few years is Mack McCoy, who lives at Mammoth. He has been real helpful in telling me how to do things.

"Mack doesn't do the work for me, but he looks at the knives I've made and points out things I can correct on the next one. Most people will comment first on how shiny a knife is. Mack will look at the shine, but the first thing he does is pick it up and tell

you if it is lined up properly. For instance, he noticed on one of mine that one side of the handle was not as round as the other.

"Talking to Mack and reading books are the only reasons I have gotten as far as I have on making knives," Bernard admits.

He obtains the materials for making his knives from various places. "I order black and white micarta from Atlanta, and I found some rosewood at a black powder gun store on Elk River. I even used a regular deer horn for one handle. The white micarta, made by Westinghouse, is imitation ivory. They claim it is better than real ivory because ivory breaks and micarta doesn't. The brass comes in bars, and I cut off whatever I need and grind it into shape," Bernard says. The various components are put together with epoxy, except for the guard, which is soldered on.

Bernard notes, "The material I buy for the knife handles averages about \$10 a handle. The price of the blades varies according to what kind of steel you use. I order the blades ready made. In order to make your own blades, you have to have a grinder which costs about \$500. I wanted to make sure I liked knife making enough to keep on with it before I bought any expensive equipment."

Bernard adds, "It takes me around a week or so to make one knife. I haven't ever figured up the hours. It's just something I do in the evenings when I come home from work or in the mornings after I get up. I probably have a \$100 total in the knives I've made, not counting my time. If you buy a true handcrafted knife, including blade, it can be pretty expensive," he says. "They run anywhere from \$125 to \$300."

He concludes, "Several of the fellows here at the plant have asked me to make some knives for them, but I haven't yet. It would be too time consuming if I made them for everybody. On the other hand, that might be a good way to pay for that \$500 grinder I'd like to have!"

Tolley eyes pro golf career

"An unknown from Roanoke, Virginia" were the words that *Golf Journal* used to describe David Tolley when he burst upon the national golf scene this summer at the U.S. Amateur Championship.

David, who is the stepson of Roanoke parttime meter reader Bev Mitchell, lost the championship to 38-year-old Jay Sigel of Berwyn, Pennsylvania. But one way of looking at it is that out of an original entry of 3,685 players, David finished #2.

"I had a lot of confidence going into the tournament, and it all fell into place that week. I have been a streak player, but that's what I can do," he said recently.

People in the Roanoke area and in Virginia are familiar with David's talent and ability on the golf course. His showing in the U.S. Amateur at Brookline, Mass., proved that he can play at a high level over the course of a major national tournament.

"David's finish in the U.S. Amateur was no fluke," said Billy King, who is the pro at Blue Hills Golf Course in Roanoke. He has served as one of David's principal instructors during the past three years.

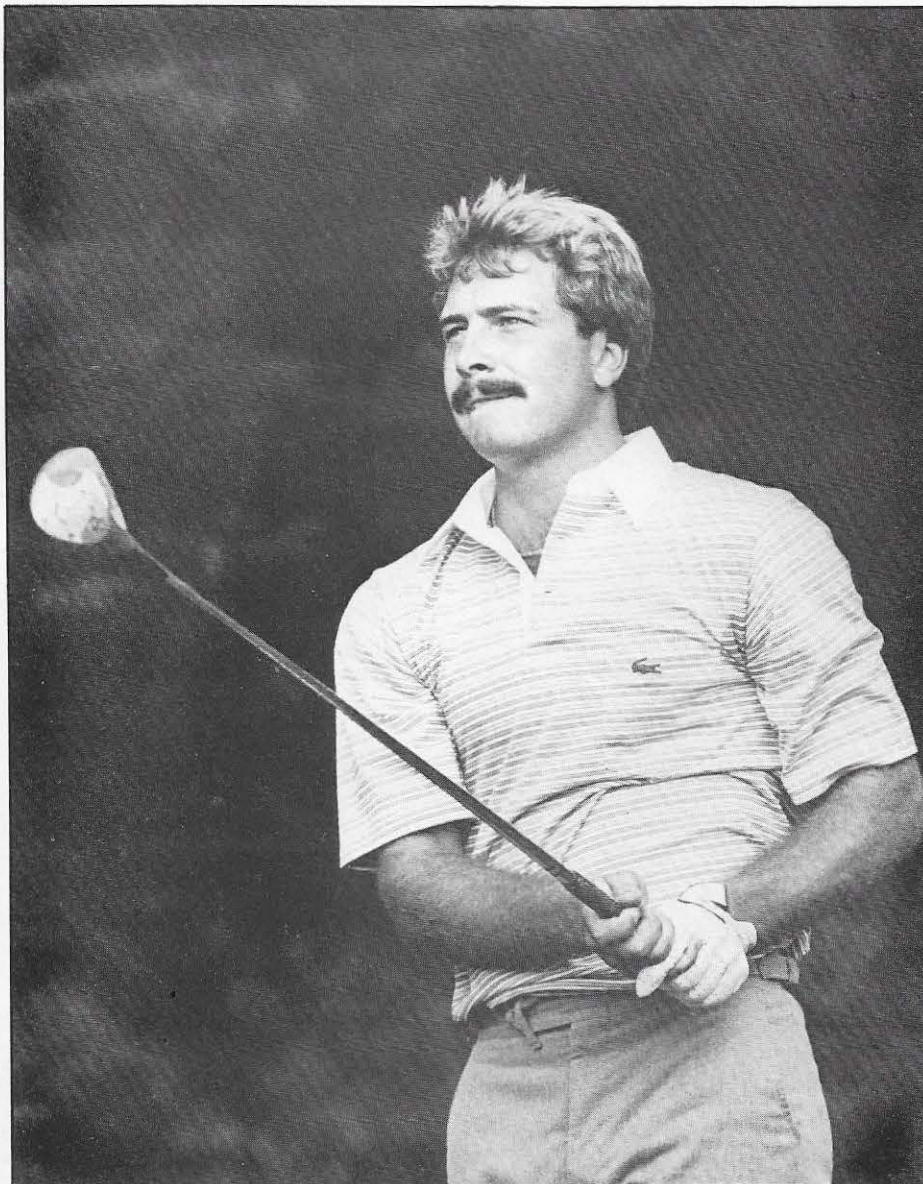
Their association emanated from a phone call. "He called and said that he was not consistent. I talked to him about the mental side of his game. That has improved over the past couple of years," King said.

"Now, we are getting him to understand his game. No great player became great until he understood his game. By that I mean the knowledge of your golf swing and the ability to analyze what you are doing wrong when you start having problems," King said.

At this point in time, David is a senior at the University of South Carolina and is on a full golf scholarship. His major is retail management, and he plans to graduate. About his future plan involving golf, he has no doubt. "I plan to play pro golf," he said.

Doug Doughty, a sportswriter for *The Roanoke Times* and *World News* who covers the local golf scene, thinks David is in a good position now.

"One thing that strikes me is that he is making all the right moves. He's playing in all the big amateur tourna-



David Tolley

ments, and he's getting experience. He's playing against the caliber of competition that gives him an idea of how good he is," Doughty said.

David showed an early aptitude for the game, according to Bev. "We were members at Countryside, and David would go along with me when I would play. Of course, it wasn't long before I couldn't keep up with him," Bev said.

"I started playing when I was 7 or 8," said David, who turned 22 this summer. "At 12 or 13 I started playing in tournaments. Still, for several years, I played other sports much more seriously. But by the ninth grade I was serious about golf."

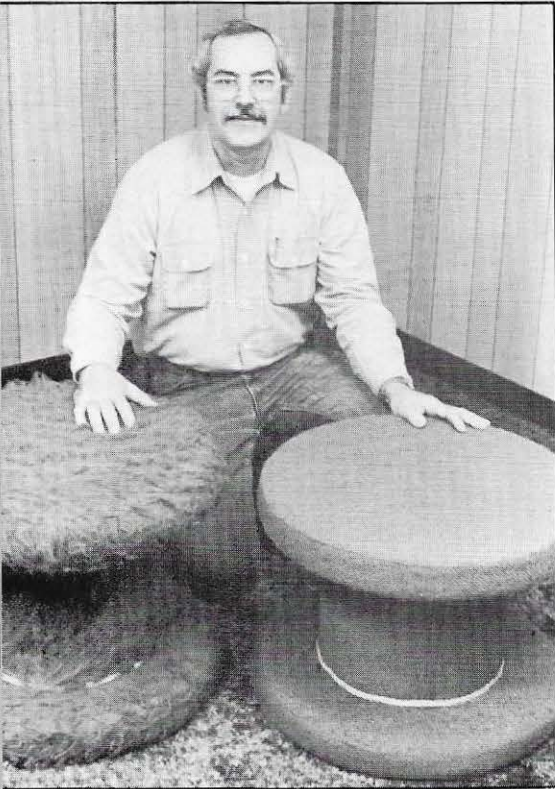
King thinks the exposure David will

get next summer in big amateur tournaments will help him in his quest for sponsorship on the pro tour. "A name helps, especially with manufacturers, on endorsements as well as sponsorship," King said.

King said that pro golfers can make a good living even if they don't play the A tour with all the best pros. "There are a lot of ways to make money in golf. But David is good enough to play in the big pro circuit," he said.

"David is a hard worker, and he has a lot of confidence in his ability," King said. "It's all up to him now." □

Gene makes stools from wire reels



Gene Peyton made these stools out of discarded wire reels. The one at left is covered with a fake fur; the one at right with a Herculon fabric.

"Not too long ago I was reading through *Popular Science* or *Popular Mechanics*, and someone had written an article about how you could make nice furniture out of wire reels. It sort of struck me funny because I have been doing it for six years," says Gene Peyton.

A first class winder at Central Machine Shop, Gene came up with the idea of making stools out of wooden reels discarded by the telephone company. "Unfortunately," he says, "we don't use reels like that at CMS. If we did, I would try to salvage them."

Gene adds, "If you are good on the sewing machine, you could whip out a stool pretty easy. Conservatively, it takes about six hours to make a stool — and a lot of patience.

"When wire comes in the reels, there are bolts sticking out of the end and you have to take a hacksaw and saw them off. Then you cut a circle of plywood and drill three or four holes in it,

and set the plywood over the end of the reel. That gives you a smooth surface to pad. I used 9/16" padding. I double the padding on one end to make it nice and thick to sit on; the other end I use only one piece.

"We buy material at the fabric shop, and my wife Judith Ann does the sewing. The fabric is sewed and stapled on to the reel."

Gene continues, "Kids love to play on the stools. We have some young nephews and nieces, and they fight over them when they come to visit. They turn them up and use them for rocking chairs."

Gene admits he has given some thought to making the stools to sell, "but if you are working a fulltime job you don't need to tie up your time."

He concludes, "If any of The Illuminator readers are interested in making one of these stools, I'll be glad to send them a sketch." □

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