

Spiritual Center of Hiwassee College  
See pages 6-7

AUGUST, 1970

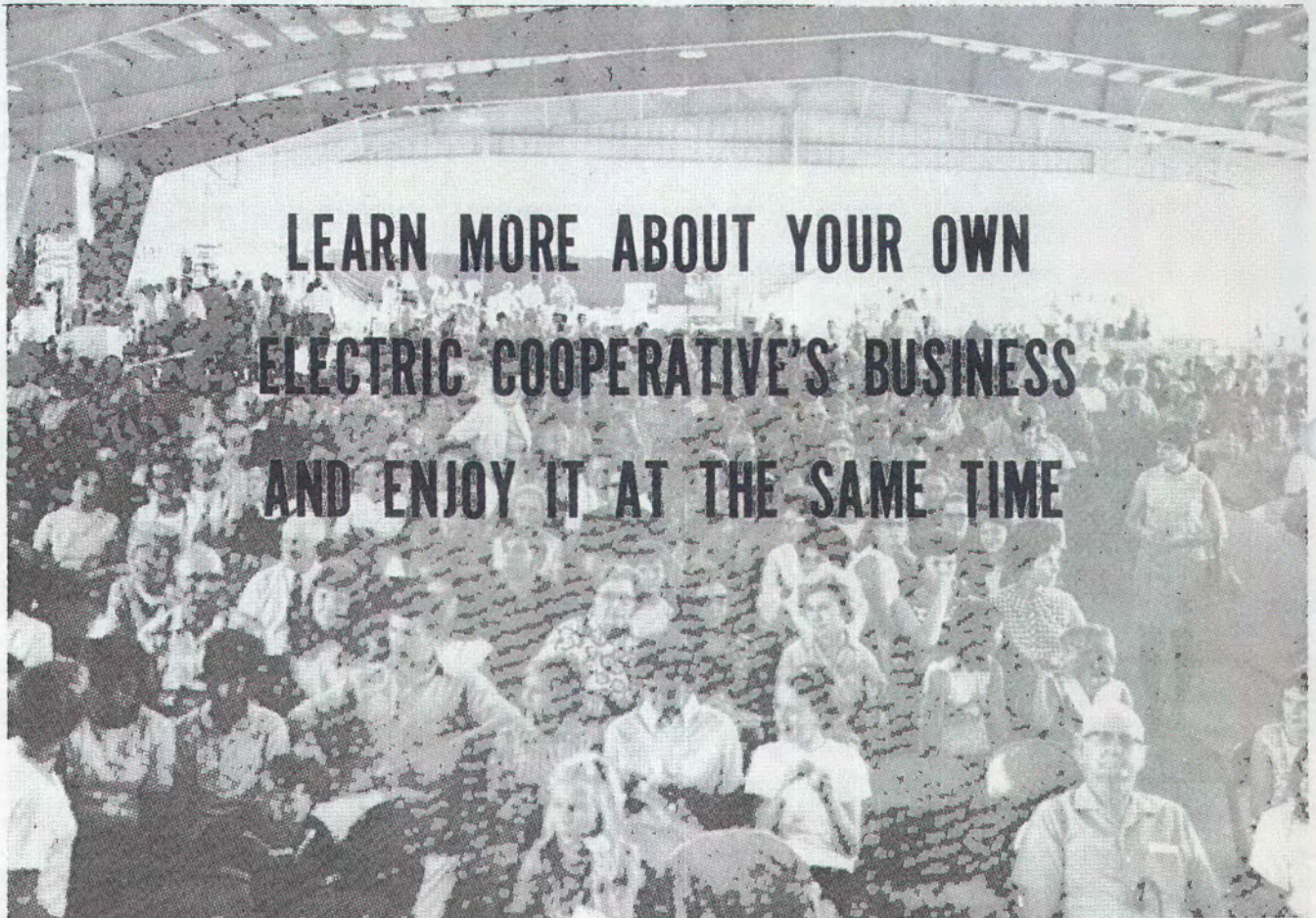
# Tennessee

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# Tennessee MAGAZINE

Official Publication of the  
**TENNESSEE ELECTRIC  
COOPERATIVE ASSOCIATION**

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## ON THE COVER

Our cover this month features the beautiful Buckner Memorial United Methodist Church at Hiwassee College, Madisonville, Tennessee. For more on this spiritual center of a fine college, see story beginning on Page 6.

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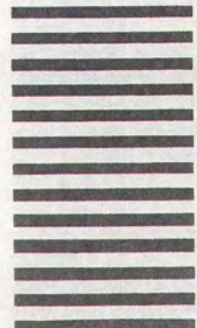
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# Volunteer Views

by J. C. Hundley  
Executive Manager, TECA

With most of Tennessee's rural electric co-ops holding their Annual Meetings in August, September and October (only a few have been held prior to these three months) it is our sincere hope and urgent request that each and every member attend this, the most important function held by your electric cooperative each year.

Whatever you do for your livelihood, it is unthinkable that you would let very much time slip by without "tendin' to your business."

Although it doesn't pay you an income directly, your electric cooperative is also very much "your business" which is almost certain to have contributed to the productivity of whatever business has provided your income—or to the comforts and efficiencies of your residence — or both! But in the case of your electric cooperative, Annual Meeting time is generally the only time that you are asked to help tend to this part of your business.

Please do this much for what has meant so much to you and your neighbors. You'll be glad you attended your Electric Co-op's Annual Meeting.

\*\* \*\* \*

With only 6% of the world's population, the United States continues to lead all other countries in the production of electricity. America generates more than 36% of the world's electrical power, which is more than the combined outputs of Russia, Japan, the United Kingdom, Western Germany and Canada, the five next greatest producers.

And for those within the United States who might sell our great nation short (we've seen some "Change It or Lose It" stickers which indicate such), let's make a few more comparisons of the U.S.A. with Russia, generally acknowledged as the other great world power.

The United States has about 8 times as many manufacturing establishments as does

Russia, this with a smaller population and less than one-half as much land area. The U.S.A. produces more coal, half again more petroleum, almost three times as much steel, and more yarn than does the U.S.S.R. In housing, each person in America has twice as much space as does each Russian.

In food production, America has more than four times as much rice, thirteen times as much corn, one-half again as much meat and four times as much fish as does Russia.

In purchasing power as related to working hours, Americans can buy one dozen eggs for 17 minutes of working time while Russians must devote 162 minutes for the same purchase. Americans can buy a small car with pay received for 720 hours of work. Russians must work for 5,716 hours in order to purchase the same car. A pair of shoes costs Americans 4½ hours of labor, Russians 49 hours. One pound of sugar costs Americans three minutes of work, Russians 42 minutes. We pay 321 minutes of work pay for a basic camera while they must work 1,327 minutes for the same camera. Only for a local telephone call (2 minutes) and a subway fare (5 minutes) are most comparisons the same — or even close.

It's something to think about — and to be most thankful for — those who might want it otherwise (or think they do) notwithstanding.

\*\* \*\* \*

Being the program of people that it is, rural electric co-ops have always been political — but never partisan.

We hope that all of you have exercised your American privilege and responsibility by voiting in the party primaries and will repeat this sacred right in the General Election in November.

For certainly, if we are to keep our rural and small town areas great, our voting voices MUST be heard.



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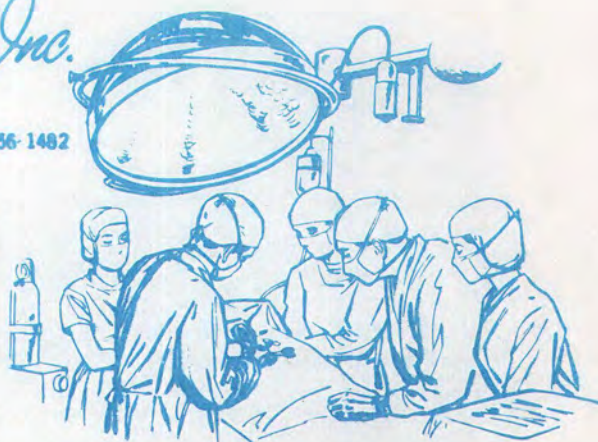
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# Beautiful Church Is Spiritual Center of Hiwassee College

By Newell Thompson, Electrification Advisor  
Fort Loudoun Electric Cooperative

Buckner Memorial United Methodist Church is named as a memorial to the late Judge and Mrs. Thomas E. Buckner. It is a beautiful example of contemporary architecture. It was designed as the spiritual center of the Hiwassee College campus.

The architect for the building was Eugene L. Rawls, of Johnson City. The contractor was J. C. Morris of Sweetwater, Tennessee.

Several hundred friends, church groups and alumni of Hiwassee contributed to the building fund.

Buckner Memorial Church is composed of four units: the Rapping Meditation Chapel, the sanctuary, the Lowry Fellowship Hall, and the education department.

## THE RAPKING CHAPEL

The Rapping Meditation Chapel is a memorial to Dr. Aaron H. Rapping, a man who stood tall in the Hiwassee Family and a person whose philosophy of the rural church has placed him among the leading rural sociologists of his day.

The Rapping Meditation Chapel was furnished by Hiwassee Furniture Manufacturing Company and Mr. and Mrs. Glenn Rapping. In addition to a beautiful chancel area, a very prominent appointment of the Chapel is the memorial window containing a reproduction of what Dr. Rapping called, "my Mt. Sinai."

The circle has no apparent beginning or ending, signifying the eternal nature of the Godhead.

Generally this symbol is seen as three interwoven, or interlaced circles. It constitutes a more familiar symbol of the Trinity. In this case, each circle represents one of the Persons of the Trinity.

The Latin Cross is the most widely known and the most popular form of the many symbolic crosses in Christendom. This cross is symbolic of Christ

risen from the dead, reigning from the throne in Heaven and of finished redemption.

The original chart contained one empty space. He said, "I do not have, nor does anyone, the final word in the Building of the Kingdom of God."

## THE SANCTUARY

The sanctuary has a seating capacity of 700. It has many strikingly beautiful architectural features — slender stained glass windows; rehostat controlled chandeliers and indirect lighting; walk-of-relief patterned brick. The pews are constructed of oak-dark finish, with built-in upholstered seats.

## THE LOWRY FELLOWSHIP HALL

The Lowry Fellowship Hall, furnished by the Hiwassee Alumni Association and the family, is a memorial to the late Dr. Joseph E. Lowry, a former president of Hiwassee.

The fellowship hall has tables and chairs to seat 125 persons. An all-electric kitchen is adjacent to the fellowship hall. It contains the following equipment: twin built-in electric ovens with automatic timers, thermal controls and rotisserie; twin counter top range units with an exhaust hood over both; a combination refrigerator-freezer with icemaker; a 40-cup coffee maker and can openers.

The Women's Society of Christian Service of the church has just installed a 3-minute cycle, chloritizer dishwasher, with a booster 180 degrees water heater.

## THE EDUCATIONAL DEPARTMENT

The educational department houses the parlor, pastor's office, Sunday School rooms and nursery, thus providing sufficient space for the education program.

Following is the story behind the Buckner Memorial Church's symbols:

## THE DOOR

The door to the sanctuary may remind one of Jesus who said, "I am the door" (John 10:9). When a door is divided in such a way as to make two entrances, references are again made to the two natures of Christ (The Door, The Way).

## THE ALTAR

Upon entering the main body of a church building, one looks to the altar or Lord's table at the far end. When there is a center aisle (as in Buckner Memorial), which in itself is a symbol of the way that leads to the throne of God, the eye naturally focuses on the altar.

In the Christian church the altar is the symbol of Christ's sacrificial death, further illustrated by the bread and wine in the sacrament. The altar is the "Throne of God," an everlasting symbol of his spiritual presence in the church.





## THE PULPIT — THE LECTERN

The pulpit and the lectern tops are shaped like wings. This symbol is in reference to the gospel taking flight to all the world (Matthew 24:14).

The lines of the chancel area, as well as the lines of the pulpit, are suggestive of the bow of a ship (the Church). The pulpit is built up, and the bow lines repeated, as to suggest a pilot house.

## THE BAPTISMAL FONT

The baptistry is a symbol of the Church's belief in the sacrament of Holy Baptism. A quadrilateral font, as found in Buckner Memorial, speaks silently of people coming from four directions (Luke 13:29).

## WINDOWS

Windows in general may be said to symbolize the Christian life. As windows are open to let the warmth and light of the sun come in, so the Christian at his best is open to good thoughts and good words, and closed to the things that harm as a window is closed to wind and rain.

The windows of Buckner Memorial contain the form of the Cross. So, in life, the cross stands at cross-currents to the tides of mankind as a reminder that . . . "God so loved the world that He gave . . ."



## THE TOWER

When the tower is massive and sturdy in appearance, it calls to mind the name of God who is a strong tower (Proverbs 18:10).

The Buckner Memorial Tower holds the cross high above the campus as a daily reminder of our Christian heritage.

The chime system in the tower conveys an inner meaning, calling the worshipers to come and give the worship and adoration that are due God.

## THE CHRISTIAN PILGRIMAGE

The long walkways leading from the main campus up the hill to the Buckner Memorial Church signify the Christian pilgrimage, or the pathway of the Christian who seeks to worship God and to learn His ways.

The entire Buckner Memorial Church building is thermostatically controlled at 73 degrees F. year-round, with central air conditioning and electric resistance duct heaters.

The floors of the vestibule, choir loft, altar, pulpit,

and nursery are heated by electric mats buried in the terrazzo floor.

The total electric cooling load of the 4 units of the church is 48.4 tons. The total electric heating load is 132 kw.



Hiwassee College is a two year co-educational, liberal arts institution, located at Madisonville, Tennessee. Hiwassee offers the Associate of Arts degree, University parallel courses, as well as terminal courses in several areas of study. Hiwassee also offers a Human Potential Clinic (a motivational program). Hiwassee is the first junior college in Tennessee to offer the first 2 years of an Aero-Space Administration and Technology Program. The college is owned and controlled by the Holston Conference of the United Methodist Church. The president of the college is Dr. Horace N. Barker.

## BARKER CENTER

The Barker Center was completed in the summer of 1969 at a cost of approximately \$1,260,000. It is named in honor of Dr. Horace N. Barker who has served as president of Hiwassee since June, 1955.

This building is centrally located on the campus. It contains twenty-four classrooms and twenty-four faculty offices. The administrative offices of the college are situated on the first floor of the Barker Center.

In addition to those facilities mentioned above, this new structure houses an auditorium with a seating capacity of 1,000. It is wired for closed-circuit television and is equipped for educational television and broadcasting room for a campus radio station. The auditorium contains a full size orchestra pit, a stage with adequate lighting and equipment for professional productions, plus drama

*(Continued on Page 17)*



# Foods, Facts and Fashions



Mrs. Paul Pierce displays her placemats made from darning net.

By Libba Morris, Home Economist  
Chickasaw Electric Cooperative

With all of the lovely fabrics on today's market, many homemakers are sewing like mad. Many are taking lessons in order to make garments for their families. More than ever, sewing techniques seem so easy with modern sewing equipment. With every family's budget, the money for clothes spending is close. For this reason, the homemaker feels she can save money by making her own clothes and that of her children. For a fact, more women sew for a hobby, now, than for economic reasons. This was brought out in an article in Reader's Digest in 1969.

There's a machine on the market today that practically eliminates any hand work at all on a garment. We've had a basting stitch on a machine for some time now, but the new stitch is much easier to remove. Depending on the garment, some hems can be put in by machine. The bobbin winds automatically and this is such a nice feature.

Miss Ruth Foiles, Singer Company representative, demonstrated the Touch and Sew machine to a group of ladies recently,

here at Chickasaw Electric Cooperative in Somerville, and sharing some of her ideas will be helpful to you, hopefully.

A. Always mark buttonholes according to you, not the pattern.

B. Use interfacing for buttonholes, regardless of the weight of the fabric.

C. Use a no. 11 needle for nylons and light pressure.

D. The heavier the fabric, the longer the stitch.

E. Use button and carpet twist — needle straddles the cord for corded buttonhole.

F. To make a ruffle for a blouse sleeve, use 1/8" elastic plus the zig-zag stitch.

G. To make permanent pleats in polyesters, whip cream and other similar fabrics, sponge on white vinegar. Cover with cheese cloth on the wrong side and press. Be sure to test fabric with vinegar, for color.

H. Mercerized threads can be used for knits and other similar materials if it is shrunk. To shrink, drop spool in water; squeeze (on the spool) and let dry over night.

The newest fad in sewing is lingerie. Check your local fabric shop for patterns and fabric.

After the garment is made, the next most important thing is the care of the garment.

## Ten Commandments for the Care of Durable Press

1. Wash frequently.
2. Watch items washed together.
3. Do small loads.
4. Choose correct water temperature.
5. Use a short agitation.
6. Rinse in cold water.
7. Hang clothes after laundering.
8. Don't over-dry.
9. Don't overcrowd dryer.
10. Touch-up when necessary.

When sewing on Durable Press fabrics:

1. Choose a thread that shrinks the least — Nylon, polyester, mercerized cotton (nos. 50 or 60) or the new polyester — cotton threads are suitable choices.

2. Use 10-12 stitches per inch.

3. Use a very sharp needle. Also sharp scissors and pins for laying and cutting pattern.

4. Use as loose a tension as practical, just enough to feed fabric through smoothly.

Clothespins will soon become antiques and clotheslines are for the birds.

How available is Permanent-Press? 85% of all men's shirts; 85% of all men's slacks; 85% of all sheets and pillowcases; 50% of all tablecloths; and 40% of all women's sport and casual clothes.

Another fun thing to do and truly a work of art, are placemats made from darned net — 42 inches of net will make 8 placemats — 14"x9 1/2" — finished. Use art-craft Filet No. 2, heavy yarn, color 258. Use a needlepoint needle. This work is similar to Swedish embroidery and looks so easy to do. After the placemat is finished, spray with spray starch and place cloth over wrong side of mat and press with a warm iron. This gives it body and the mats are washable.

Mrs. Paul Pierce enjoys this work for a hobby. She has made 4 sets in the last three years, not working steady, for she stays busy doing other things, such as needlepoint.



# DOLLS FOR A HOBBY

Do you have a doll or dolls in your attic? They may be valuable! Why don't you take a look!

Lela Jo Littleton of Murray, Kentucky, retired several years ago and began collecting dolls for a hobby. She collects antique dolls and has about fifty in her possession. Some of the finest dolls made are in her collection. The Jumeau doll is one of her favorite and is supposed to be the second finest doll made. The markings on the back of the head should tell you if a doll is worth possessing. Most of the dolls in her collection are German-made dolls.

Lela said she has always loved dolls. She studies them, their features; she even has a doll encyclopedia to keep her up with this hobby. She has bought dolls in antique shops and has driven all over the country looking for dolls.

Did you know the rubber doll is almost extinct? Among the dolls in her collection are the Kestner-Flodora, Parian, Lenci, Bye-Lo, K. Starr, name dolls and pre-Civil War dolls.

When Lela finds a doll she wants in her collection she sterilizes it first, then repairs and then! — dresses these "little dolls" in gorgeous attire. This could be a profit-making hobby, but Lela says she wouldn't sell any of her dolls for anything.



Miss Lela Jo Littleton with a few of her dolls. Her real prize dolls were in Murray, Ky. at the time this picture was made. The dolls shown were picked up at a local antique shop.

## QUANTITY COOKING\*\* RECIPES

So many times large quantities of foods are needed for various activities and unless several different people would be responsible for these large amounts, it's hard to find a large quantity recipe. In West Tennessee, we have a lot of spaghetti suppers for different fund raising projects and for this reason, I felt it might be worthwhile for you to have the following recipes for your file.

### SPAGHETTI

- 4 lbs. spaghetti
- 2 gal. boiling water
- 2 tbsp. salt
- 14 lb., 10 oz. ground beef
- 1 cup oil or fat, melted (if needed)
- 3 lb. chopped onions

Cook spaghetti. Brown beef; use fat if beef is lean. Add onions and cook until onions are clear, but not brown. Drain off excess fat.

\*\*\*\*\*

- A** agitate your talents
- U** utilize them thoroughly
- G** gain more knowledge and know-how for family's sake
- U** utopia will be yours for your ability!
- S** Sanity, too!
- T** TODAY — Try something new and challenging.

\*\*\*\*\*

### Sauce

- 2 lb. shredded cheese
- 4 lb., 12 oz. tomato paste
- 3 lb., 6 oz. tomato puree
- 3/4 cup salt
- 2 tbsp. sugar

Blend cheese with meat mixture. Add remaining ingredients and stir in spaghetti. Reheat and serve.

Makes 100 portions; each portion is about 2/3 cup.

### COLE SLAW

- 1 1/4 qt. vinegar
- 2 lb. sugar
- 2 tbsp. celery seed
- 1 tbsp. salt
- 2 tsp. pepper
- 12 lb., 12 oz. shredded cabbage

Combine all ingredients except cabbage, mixing well. Stir vinegar mixture into shredded cabbage and let stand at least ten minutes. Serve cold.

If carrots are desired, add 7 lb., 8 oz. shredded carrots. Cut cabbage amount to 7 lb., 8 oz., which is equal to 1 gal., 3 1/2 qt. Makes 100 portions; each portion is 1/2 cup.

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With its abundance of fine lakes and rivers, Tennessee has become one of the top states in the nation for water sports and recreation.

And if Carl Thigpen, president and major stockholder of XL Plastics Company of Gainesboro, Tennessee has anything to say about it, a boat for every family will be as important as a chicken for every pot or a car for every garage. The prime product of Thigpen's 1-year-old company is boats and that means powered boats of just about any description between eight and sixteen feet in length. Utility is designed for a wide range of sports, from trolling for fish to pulling water skiers.

Boats produced by the XL Plastic Company are basically constructed of fiberglass except, of course, the finishing touches of wood and metal. They are marketed under the trade name of Glass-Mate Boats. The finished products range in weight from 140 pounds for the eight-footers to 800 pounds for the larger craft. The smaller boats may be purchased for about \$300 while the sixteen-footers range upwards to \$1,295. Motors are not a part of the XL operation and are not included in these prices.

Producing a craft of Glass-Mate Boat quality takes quite a bit of doing in terms of time, materials, know-how and pride of work. Overly-simplified, here are the major steps which XL Plastics executes in producing as fine a boat of its type as anyone might find anywhere:

1. According to the size and type of boat to be constructed, a mold is chosen and transported to a large paint-spray room where the inside of the mold is thoroughly sprayed with the color of paint which the craft will bear as a finished product.

# GLASS-MATE BOATS MAKING BIG SPLASH ON STATE, AREA WATERS

By John Stanford

2. A fiberglass mat, consisting of resin, chopped glass and a catalyst, is sprayed over this coating of paint inside the mold and allowed to "cure" for about two hours. During this period of time the fiberglass mat and coating of paint "chemically cook" and combine in a way which could best be described by a chemist with a law degree, and to the end that after about two hours, the fiberglass mat has hardened within itself and has at the same time absorbed unto itself in a gleaming finish all the paint that was sprayed on the mold.

3. Next to be added to the inner surfaces of this outer section of the hull is woven roving, a cloth-like material made of fibers of fiberglass, which adds impact strength to the hull.

4. Still working from the inside, clear resin is now spread over the roving. Again the hull is given about two hours to cool and further harden.

5. The hull is taken to a crane compartment where, after being loosened, it is completely lifted from the mold.

6. Then the hull is taken to a sanding area for removal of any rough surfaces, which are usually around the top surfaces.

(Note: Decks are produced in almost identical manner and it is at this point that hulls and decks are joined together. Now the craft looks very much like a boat, but much is yet to be done.)

7. All the wooden components, flooring and reinforcements are put in place, including seats and steering apparatus. (Some models require windshields, portable tops and other "extras.")

After numerous quality inspections, each gleaming boat is transported to one of the 31 dealers selling Glass-Mate boats throughout Tennessee and parts of Kentucky, Alabama and Georgia.

At the present time the XL Plastics Company produces from four to five boats each working day from an 18,000 sq. ft. building on the edge of Gainesboro which once served as a grain mill. A

considerably larger building is hoped for in the near future.

At present, the XL Plastics Company employs an average of some 30 persons, with more to come in due time. The payroll is approximately \$110,000 per year.

Thigpen, a native of Chattanooga, thinks that Gainesboro (and Jackson County) is an ideal location for his company because of availability of good employees and "because it's just a wonderful place to live."

Says the genial XL Plastics Company president, "We've had wonderful cooperation from everyone, by all means including the Upper Cumberland Electric Membership Corporation which provides the power without which we would be lost."

Among electrical equipment used in making Glass-Mate boats are three air compressors, three 220-volt saws, a joiner, trimmer, drill press and comfort conditioning.

Although boats are, and probably will remain, the company's prime product, a few other products have come from this aggressive newcomer in manufacturing, such as bath shower units and dune buggies. Most of all the company wants to keep its employees and facilities busy for the economic sake of the employees and the area in general.

Although having just arrived on Tennessee's industrial scene, the XL Plastics Company, with leadership such as is being provided by Thigpen and able employees turning out quality products, is a safe bet to make a big splash, figuratively and literally, with its Glass-Mate boats.

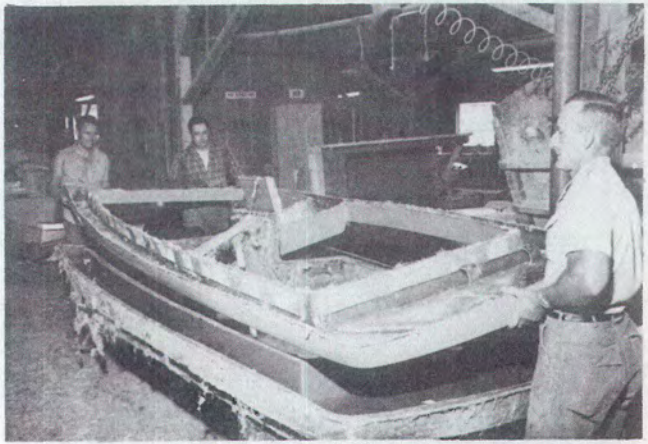


Boat assembly begins here with spray painting inside of mold, in this instance a hull. Molds are also used for decks.





After inside of mold is sprayed with paint, a fiberglass mat is sprayed over paint and then, as shown here, a layer of woven roving is added, followed by a coating of clear resin, for impact strength.



After paint, fiberglass mat, woven roving and resin have "cured" inside mold, the hardened component is removed — in this instance a deck.



After removal, each component is put through a sanding operation for removal of any rough surfaces.



After sanding operation, the deck is mounted to the hull.



Hugh Hix (right) explains convertible feature to David Dudney, electrification advisor of Upper Cumberland Electric Membership Corporation, electrical supplier to XL Plastics Company.



Here is a recently completed Glass-Mate beauty, ready for delivery to a dealer and in turn to a boating enthusiast.

**ELECTRICITY NEEDS A PATH!**



## HISTORIAN OF VAN BUREN COUNTY

Have you ever started to read a book and become so interested that you hate to lay it down because you feel you must find out what is going to happen next? That is the ability a successful author has. You find some conversationalists that have that ability too, and Creed B. Shockley of Spencer is one of those conversationalists. He can keep you wondering what he is going to say next. He has the natural ability of being witty much of the time and serious as needed. His experiences and his knowledge of the history of the people of Spencer and Van Buren County can enthrall you. Much of it he has lived and he has endeavored to find out more. If it were on paper, it would fill volumes.

Many counties in most states have county historians and Creed meets all the qualifications of serving as Van Buren County's historian. Mail arrives regularly from almost every state in the union for information on nearly any subject you can name. He thoroughly enjoys it and you can depend on him to make every effort to furnish their requests.

He and his wife Cornelia, his companion for over half a century (they celebrated their Golden Wedding Anniversary last year), are familiar faces to the residents of Van Buren County. Few people would fail to recognize them as they sit on their front porch or walk down the streets of Spencer. They have spent most of their lives in Spencer and since 1923 they have owned the house on the corner across from the court house.

It has been said, "behind every good man there is a good woman," and perhaps it takes an illness and a stay in the hospital for a



Mr. and Mrs. Creed B. Shockley of Spencer. Mail arrives regularly requesting information on Spencer and Van Buren County.

man to realize what a woman does. For instance, the time Creed's wife was in the hospital and he had to do the cooking. He fed the leftovers to the cat and it was gone for eight days. That is good cause for worry.

Cornelia's hobby at that time was raising African violets, and they were really thriving — that is, until Creed forgot to water them. When she came home, they were shriveled-up. She is just now beginning to get a good start again.

It doesn't take long for one to realize that Creed is proud of the community projects that he has been a part of—and that have helped Van Buren County progress — such as the Burritt Memorial Library.

He is a retired postmaster. Prior to being postmaster, he taught

school and never lost his contact with the youths of the area.

Because of his personal traits and the many fine and honorable things he believes in, and for his ability in seeing community projects carried out, the graduating class of 1970 of the Van Buren County High School paid him a fitting tribute. The 1970 year book was dedicated to him — an honor that he modestly says he doesn't deserve, but an honor that genuinely pleased him and for which he is most grateful.





# STUBBLEFIELD STABLES - "PLEASURE HORSES"

Professionally, Claude Stubblefield of Irving College in Warren County, is a farmer and nurseryman. His wife, Marcelle, teaches school. Their hobby, raising pleasure horses, began simply when they bought a horse for their two foster children. The children liked horses and were good riders, but as it happened they became less interested and Marcelle's interest increased. The children are now grown and away from home.

Marcelle, having been reared on a farm, always had an interest in horses and enjoyed riding. Logically she decided that it wouldn't cost any more to feed and care for good registered horses than it would for "plug" horses.

Although she says raising colts is still just a hobby, it is fast approaching a business. Claude says, "I am not the one in the horse business; it is my wife." However, he helps feed and care for them when they are sick and need his assistance.

Because of her love for horses, and Claude's devotion to her, a barn known as Stubblefield Stables was built near the residence. It was built to house and care for the horses, but it has a unique feature. It contains a large, modern apartment or living quarters. During the past winter, the Stubblefields moved out of their modern home to the barn, so they could be near the horses if they were needed.

The apartment consists of a large living room with a log burning fireplace built from local stone and brick. The kitchen, part of the combination living-dining area, is equipped with modern electric appliances, and the two bedrooms are in the loft area and can be approached by a stairway built of dead chestnut logs from their mountain farm.

Their bedroom has a window located so they can see the horses at night should they need attention.

The entire apartment is furnished with antique furniture, some family heirlooms and other pieces of furniture that Marcelle has purchased from local people. They have tried to keep a rustic look and yet be comfortable. One will find a side saddle that her mother used, lighting fixtures converted from



Marcelle Stubblefield in the kitchen of her barn apartment. The second level is one of the bedrooms, and the window on the right overlooks the hall area of the barn.

oil lanterns placed on wagon wheels, and stools for the snack bar made from hay rake seats.

After all of this, Marcelle still insists that raising pleasure horses is just a hobby, but it has become necessary to have help. A nephew, Clifford Starkey, helps train and care for the horses.

Marcelle rides and helps to train them also. She says, "My ambition is just to ride in amateur classes of competition in the local horse shows."

## Help Air Conditioning Keep Humidity Lower For Greater Comfort

High humidity in the home, as well as heat, is a very real source of summer discomfort. Even when the air has been cooled, it can cause discomfort if it contains a high degree of moisture.

For this reason, air conditioning is more than cooling. It also controls the relative humidity by removing moisture from the air before it circulates through your home.

Depending on the capacity of the unit, air conditioning removes from one-and-a-half to more than nine pints of water an hour from the air. In doing this, it balances the elements of cool and dry air, so essential to comfort.

You can help your air conditioning keep this balance by following these suggestions.

1. In extremely damp seasons in some areas, it may be necessary to use a dehumidifier to assist

your air conditioning system in controlling relative humidity.

2. Don't open doors more often than necessary, and keep windows closed. When open, they let in highly humid air, especially at night.

3. Unless your clothes dryer has a condenser system, vent it to the outside. Moisture discharged by drying clothes puts an extra load on your air conditioning.

4. Use the coolest part of the day for mopping floors, washing furniture, and doing other housework requiring use of water. Wet surfaces release moisture into the air as they dry.

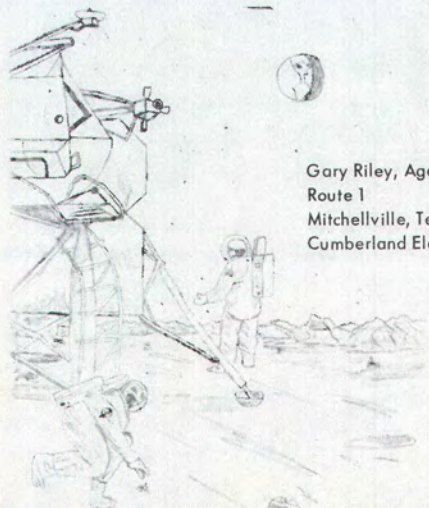


# Uncle John's Page

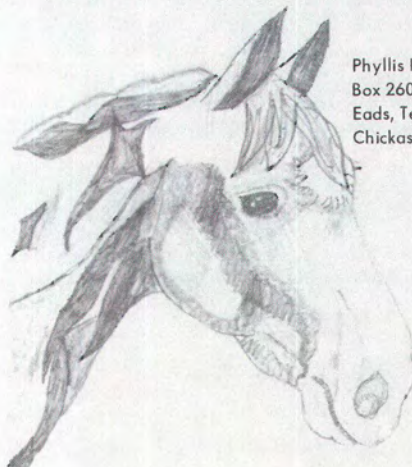
This page is reserved for the young folks. We will pay one dollar for each poem or drawing published. ALL WORK MUST BE ORIGINAL. Drawings should be in black, and drawn on white, unlined paper. Tell us your age, address, and Electric Co-op, and

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710 Spence Lane, Nashville 10, Tenn.



Gary Riley, Age 15  
Route 1  
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Cumberland Elec. Memb. Corp.



Phyllis Facelli, Age 14  
Box 260-A  
Eads, Tenn.  
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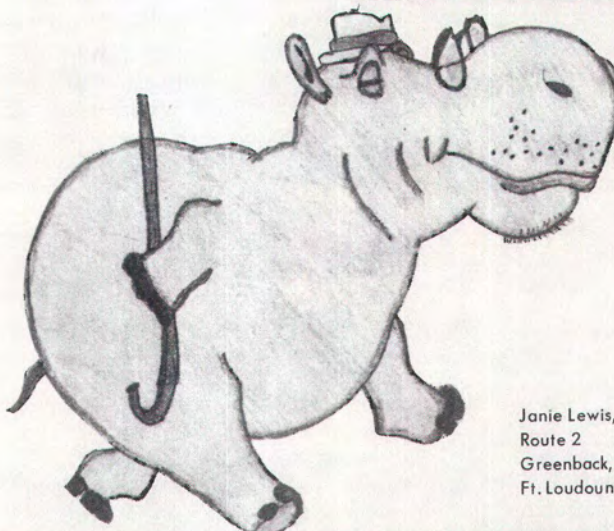
Steve Cunningham, Age 12  
Route 6  
Tazewell, Tenn. 37879  
Powell Valley E. C.



Freddie Russell, Age 12  
Route 1  
Belfast, Tenn. 37019  
Duck River E. M. C.



Linda Daniel, Age 13  
Medina, Tenn. 38355  
Gibson Co. E. M. C.



Janie Lewis, Age 15  
Route 2  
Greenback, Tenn. 37742  
Ft. Loudoun Electric Cooperative



# Timely Topics

## PESTICIDE SPILLS SERVICE AVAILABLE TO TENNESSEANS

A Pesticide Safety Team Network is now in operation and available to Tennesseans. The network was developed by the National Agricultural Chemical Association and is designed to minimize the risk arising from accidental spillage or leaking of Class B poison pesticides.

This service concerns major spillage problems with pesticides, says R. P. Mullett, University of Tennessee Extension entomologist. "Such efforts are designed to avert possible environmental pollution problems," continues Mullett. "A Class B poison is easily recognized by the skull and crossbones and the word 'poison' on the label."

"It is most effective with major pesticide spillage problems that might occur — such as a trailer truck of pesticides wrecking, a warehouse of pesticides being damaged, say, by a tornado, or a spray plane crashing. You might run across such a situation at any time," cautions the entomologist.

This program is being actively promoted by carriers and warehousemen of these pesticides and interested government officials.

A central telephone number, (513) 961-4300, in Cincinnati, Ohio is being monitored on a 24-hour basis. Nine NACA members — Chevron, Shell, Stauffer, Chamagro, Diamond Shamrock, Velsicol, Niagara, Union Carbide, and Monsanto — are participating in the program by cooperatively furnishing personnel, equipment, and expertise for the prompt and efficient clean-up and decontamination of Class B poison pesticides involved in a major accident. More than 38 safety teams make up the network.

Remember, the number of call if you encounter a major pesticide spillage problem is (513) 961-4300.

## GET BLUEBERRIES IN 3 TO 4 YEARS

"It takes from three to four years after setting out blueberry bushes before you can harvest blueberries for muffins, pies, and other delicacies that require that fruit," says Robert D. Freeland, assistant horticulturist at the University of Tennessee.

Freeland explained that certain cultural practices are necessary for growing blueberries, since it is one of the most "acid loving" horticultural plants.

"While you can pick blueberries from three to four years after you set out the bushes, peak production years come about eight to ten years after setting. High yields of berries can be maintained for several years if certain cultural practices are followed," Freeland said.

Highbush and Rabbiteye are the two blueberry species growing in Tennessee. Freeland pointed out that several varieties of each species are in the blueberry plot at the Plateau Experiment Station near Crossville where a field day will be held on August 5.

"This blueberry planting is at its peak of bearing years," Freeland added.

## WEED CONTROL CHEMICALS CAN STILL BE USED

Experience and research has indicated that the practice of post-emergence application of weed control chemicals is essential in many cases for a complete weed control program, according to Albert J. Swearingen, associate agricultural engineer with the University of Tennessee Agricultural Extension Service.

This can be true even though pre-emergence chemicals may have been effectively used. Late growth weeds can influence the quantity and quality of the harvested yield even more than early weeds.

"Time and quantity of chemical applied in post-emergence application is as important as in pre-emergence application," reminds Swearingen. "Post-emergence brings on another precise requirement in that the chemical needs to be applied in the growing buds of the plants to be killed but must be kept away from the buds of the plants that are to be preserved. This means the nozzle tips cannot be bobbing and jumping as they are moved across the field."

As a result of this requirement, most post-emergence spray rigs have slide mounted nozzle tips. In many instances protective shields are added to keep random spray drops from contacting cultivated plants.

To get the chemical applied to weeds in the row, Swearingen stresses that the angle and height setting of the nozzle tip must be precise.

"Every operator should check the job his post-emergence unit is doing in his field," urges the agricultural engineer. "Remember a change in relative size of weeds and cultivated plants will require a change in nozzle setting."

Post-emergence chemicals haphazardly applied may kill the unwanted weeds, but in so doing may reduce the yield of the cultivated crop. The yield may be reduced without a noticeable influence on the growing plant at time of chemical application.

## FARM BRIEFS

Your beef cow herd needs attention throughout the year. Failure to do the right thing for the cow at the right time can drastically affect profits.

\*\* \*\* \*

A waterless period can mean trouble for crops, but a lack of water can spell disaster for homes and farm buildings in case of fire.

\*\* \*\* \*

Dairymen should remember that good sanitation and chemical fly control go hand-in-hand. Chemical fly control should not be used as a substitute for good sanitation practices around your dairy buildings.

\*\* \*\* \*

You can increase forage production from sorghum-sudan-grass hybrid pastures by topdressing with nitrogen, advises a University of Tennessee Extension agronomist.



# Conservation-Minded Father, Son "Practice What They Preach"

By: A. K. Booher, RC&D Project Coordinator  
and B. Q. Harrison, District Conservationist,  
Byrdstown, Tennessee



Jason P. Crouch and son Coleman look over Indian corn being raised as hobby.

Jason Crouch and son, Coleman, have served a quarter of a century as supervisors of the Pickett County, Tennessee Soil Conservation District. During this time they have set an example of conservation farming on their own land by continuously "practicing what they preach."

The elder Crouch was elected the first chairman of the district by fellow board members. Coleman, now chairman of the board, became a supervisor in 1962 when Jason retired after serving 17 consecutive years.

"I was farming forty-two acres when I first became a part of the Pickett Soil Conservation District," Jason explained. "It took 5 or 6 acres of pasture per head for my poor grade cattle. The sale of fifteen to twenty hogs along with the small calf crop and eggs from a flock of 100 hens was our total farm income during the early forties."

The Crouches are modest in discussing achievements on their own farm. They are more likely to comment on what a good job

their neighbors have done. However, when questioned closely, they will admit that they now own and operate nearly 1,000 acres. They maintain a herd of 100 registered Angus breeding stock. Two hundred and fifty acres of the farmland is used for pasture and hayland. Another 10 acres is cropland, with the remainder devoted to growing timber.

"We now figure on two acres of pasture per mature cow," Coleman said. "We try to manage all our pastures properly by liming, fertilizing, clipping as needed, and following good grazing practices. Three farm ponds have been built for livestock water, forty-one acres of steep or gullied land has been planted to trees, and several previously gullied natural drainageways have been converted to grassed waterways." The Crouches have been gradually improving their woodland by selective harvesting practices.

Prior to 1949 when Jason bought his first tractor, a team of mules provided the power on the farm. Now they have three tractors

and two horses. "One difference between our horse and mule days and now," Coleman chuckled, "is that now the horses don't do any work. My boy Jeff claims one horse and a nephew the other."

Jason still talks about the time the Pickett County Soil Conservation District won the coveted Goodyear Awards Program in 1958 as the outstanding district in Tennessee, and his visit to the Goodyear farms in Litchfield, Arizona, representing his district in the awards program.

"There have been many changes in our district," the elder Crouch remarked. "For instance, our one and a half acre burley tobacco crop last year averaged nearly 3,500 pounds per acre, and I can remember when I considered 1,500 pounds per acre a good yield. Also, 3 to 4 acres of corn fills our 65 ton upright silo. Changes like this are prevalent throughout the district," he said.

"Dad still gives me some fatherly advice on how the district should be run," Coleman said. "And if you want to see him mad, let him see a load of logs that have been cut too soon."

Although Jason is retired as a soil conservation district supervisor, he continues to be an active leader for conservation in his county and area. In fact, both Crouches were active in the organization of the eleven county Hull-York Lakeland Resource Conservation and Development Project, of which Pickett County is a part.



Jason and Coleman Crouch look over the improved pastures on their farm and the herd of registered Angus cattle.



## Hiwassee College

(Continued from Page 7)

work rooms and other related facilities for an instructional program in drama. One large room over the west balcony is equipped with study carrels. Lockers are provided for commuting students. Additionally, it provides conference rooms for students, faculty and administration.

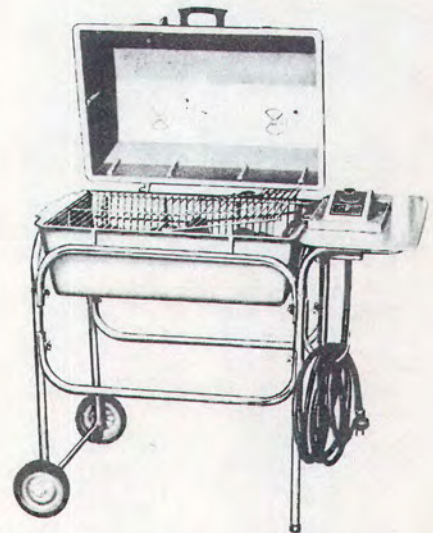
This three-story structure is fully air conditioned by one 181-ton electric central system. Electric heat is supplied by a 540 kw, 9 step electric boiler. The auditorium, conference rooms, and offices are beautifully furnished in colorful, modern appointments.

Hiwassee College is the second largest consumer of electricity on the Fort Loudoun Electric Cooperative system. Seven of the ten buildings on the campus are all electric.

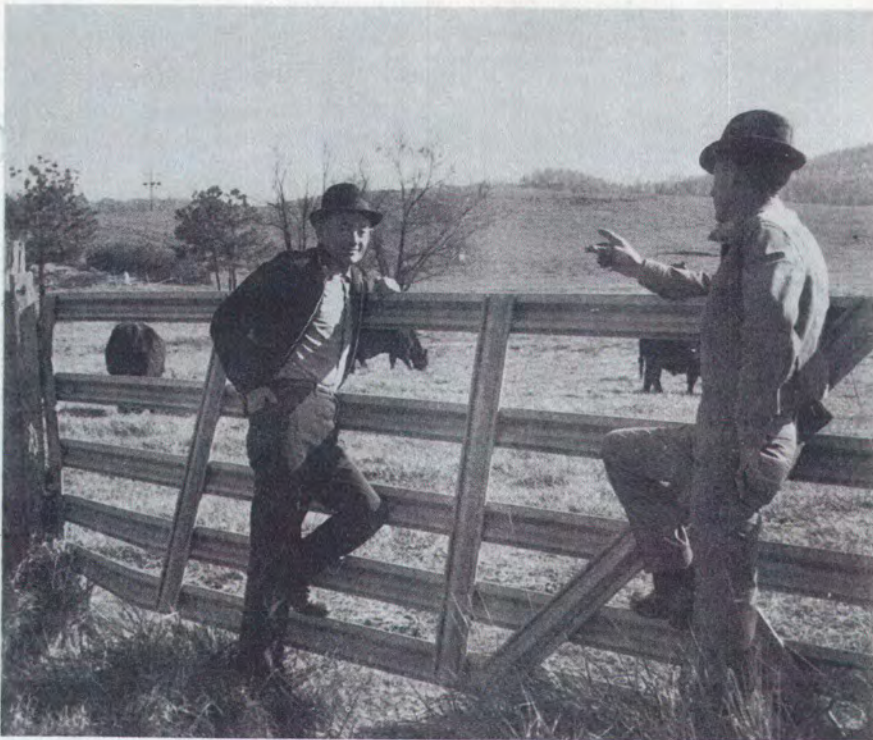
★ ★ ★ ★ ★

Last year more electric ranges were bought than ever before. Self-cleaning ovens and surface units are two of the reasons. Another is the exact heat control you get with every model.

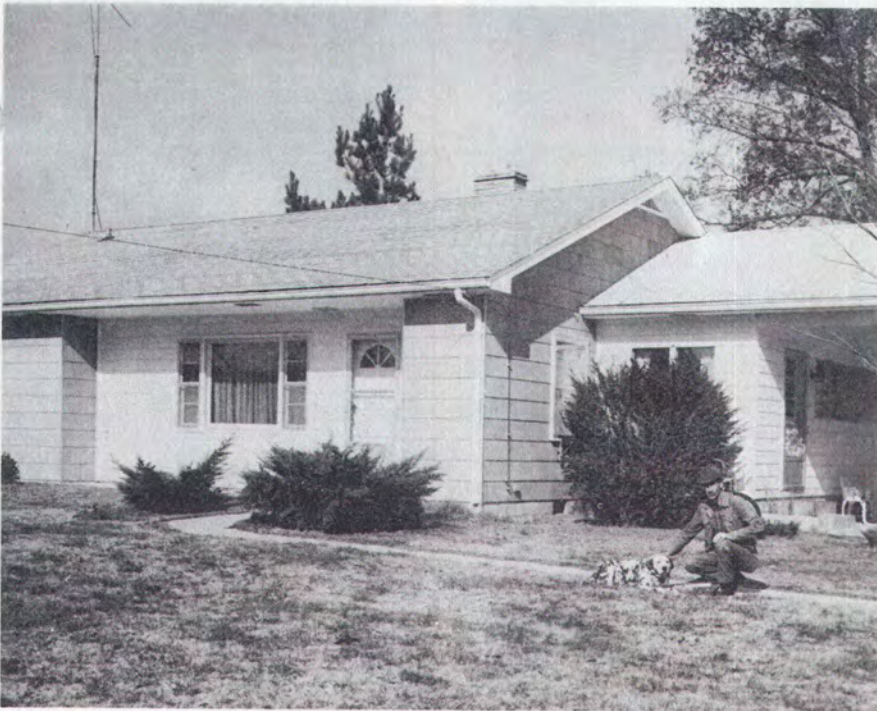
### Grill Better



*Electrically*



Jason Crouch and son Coleman discuss their partnership farming operation. Jason served as Pickett SCD supervisor from 1945 to 1962. Coleman became SCD supervisor following Jason's retirement.



Coleman Crouch and the family pet in front of his new home. J. P. and son Coleman have, combined, served 24 years as SCD supervisors in Pickett County. Each has built a new home.

*fresh*  *clean* **ELECTRICITY DOES IT BEST!**



# "RURAL ELECTRIC TOUR - 1970 STYLE"

By Jerry T. Lackey

*(Editor's Note: Jerry Lackey would have to be considered one of Tennessee's busiest young men. He is pastor of both the Clopton and Macedonia United Methodist Churches in the Brownsville District of the Memphis Annual Conference AND an English teacher at Munford High School. It was in this latter capacity that he was awarded a trip as a chaperone on the annual Washington Youth Tour sponsored by participating rural electric co-ops in Tennessee. Following is Reverend Lackey's account of the Youth Tour, which included 50 essay-winning youngsters, 15 adults-chaperones and Janet Porter, Tennessee's reigning Miss Rural Electrification U.S.A.)*

After a briefing of tour instructions, we stepped out of the Nashville statewide office. The sky was threatening as Lofton "Shutter-eye" Robertson aimed his camera at us. At approximately 7:45 a.m., T. O. "Warbling" Walker warbled, "Move 'em out." The twin diesel engines roared as Mr. Hill and Mr. Newbern, our bus drivers, shifted into gear. This was the beginning of an exciting and educational excursion.

I was seated beside my wife, Gail, looking forward to our second honeymoon, not realizing that there would hardly be time to speak to her except while riding on the bus. Our bus was not so crowded as the other one in front, and some of the youths sat alone; others sat with one from their local cooperative area. It was not long until friendships were being formed. There was plenty to discuss. You know, the girls talked about the boys and,



of course, the boys discussed the possible opportunity of a lecture on modern art at the National Gallery of Art.

We arrived too late at Natural Bridge, Virginia, to see the "Drama of Creation," a reading from Genesis with accompanying lights and music. The beauty of the next morning erased this disappointment. At the sight of Natural Bridge, one hundred and thirty-two eyes witnessed a part of creation. A running, rippling stream reminded us; a hidden river quietly told us that part of nature was still a mystery to mankind.

A devotional service, Sunday, June 14, as we gathered out in the midst of nature, was a highlight to me. As sixty-six voices sang "America," "God Bless America," and "How Great Thou Art," our thoughts pondered upon the Lord's Day and also that this was Flag Day. Since we were traveling, we recalled that, as on any interstate, the Interstate of Life always has a "Stuckey's," a place for rest, food, and gas.

Later, we arrived at Monticello, the home of Thomas Jefferson. As we waited in the line of approximately two hundred people, I felt a tap on my shoulder; a young man said, "I don't believe he's home." Well, he wasn't, but we enjoyed this magnificent place.

Once again we were pushing forward toward our nation's capital. On the way, one of the greatest things that happened was the singing on our bus. The chaperones and the youths sang together. There was no generation gap because the hymns and folk songs were familiar to all ages. Each person knew the songs because at sometime in the past, each had listened, there again proving to us that there is no gap among people who "listen" to each other.

Finally, we watched the Washington Monument growing before us, telling us this is where it happened, happens, and will happen. As we rode to the motel, we were teased by the sights of the Pentagon, monuments, and the dome of our Capitol. Tomorrow we shall see.

I guess I was as excited as anyone. Early the next morning, I stepped outside to see the view of the one place I had always dreamed of seeing. Then I saw them — two crows, flying at different elevations but in the same direction toward the Capitol building. I wondered if they were members of the House or the Senate. It seems a lot of "flying around" goes on in Washington, D.C.; those crows looked familiar.

We were fed like royalty; in fact, by Wednesday, the group was begging for a plain "ole ham-



burger." They led us in a pace that would make a determined Tennessee Walking Horse perspire with Kentucky sweat.

On Monday, we saw the "Iwo Jima Monument" with the outstretched hand that had helped to raise "Old Glory." I thought, "We need hands with scars from waving our flag." My thoughts continued as I looked at the graves of the Kennedy brothers and the many tombstones in Arlington stretched out like a giant cash register tape giving the cost of freedom. Later, as we watched the changing of the guard at the Tomb of the Unknown Soldier, the group must have felt the strength of the Unknown.

Then we visited the NRECA building, where we met the representatives of all local cooperatives in Washington, D.C. There we listened to a program showing how a cooperative works. This explanation was presented through a comical film. This entertaining educational film bridged a gap that brought about understanding. Soon, they sent us on our way to Mt. Vernon. More and more, American history seemed to spring to life. I'm glad that most of the youths still have one more year of high school because this trip, I know, increased their interest in their country and its government.

By this time, excitement converted shyness into electricity — electricity produced and controlled by a cooperative. A cooperative is something that works because people toil together, play together, and enjoy togetherness. This group was an example of a successful cooperative, the kind which we need every day. My mind put together the following as I looked out over the hills of Virginia:

*Fencerows are all alike.  
They divide,  
Separate,  
Contain.*

*Fencerows keep out  
and keep in.  
That is their purpose, their life.  
They live.  
They exist.  
Must all be like fencerows?  
To reach the other side,  
one must climb over,  
cut through, or destroy.  
DON'T PLAY WITH  
FENCEROWS . . .  
PLAY WITH BRIDGES.*

Our nights were also planned for us. Monday night we went on the Potomac River Boat Trip. The sights and sounds of that night will live a long time. Many states were brought together with the echoes of "you 'alls" and "youse guys." Some even tried to teach me the dance called the "chicken." It was easy. In my football training days we called it "side-straddle hop."

The breakfast at the House Restaurant in the Capitol with our Senators and Representatives was another highlight of the week. Did you know that politicians eat regular food? They do. Why, I even noticed one using both hands while eating! Back to our tour. While at the Capitol, we walked across the street to the Supreme Court Building to eat lunch. While standing in line at the cafeteria, I thought, "In the Hall of Justice, I waited to eat." May this group always eat there.

*(Continued on Page 21)*



Another highlight visit was to Mount Vernon, home of our nation's first president, George Washington.



Miss Rural Electrification U.S.A., Tennessee's own Janet Porter, served as a national hostess as well as a tour member from the Volunteer State.



Historical was the word for the stop of "Monticello," home of President Thomas Jefferson.



The tour started — and ended — here, at the headquarters building of the Tennessee Electric Cooperative Association which arranged and conducted the tour in behalf of participating local electric cooperatives.



First major stop en route was at Natural Bridge in Virginia.



Among the many visits made in Washington D.C., one was to the Tomb of the Unknowns.



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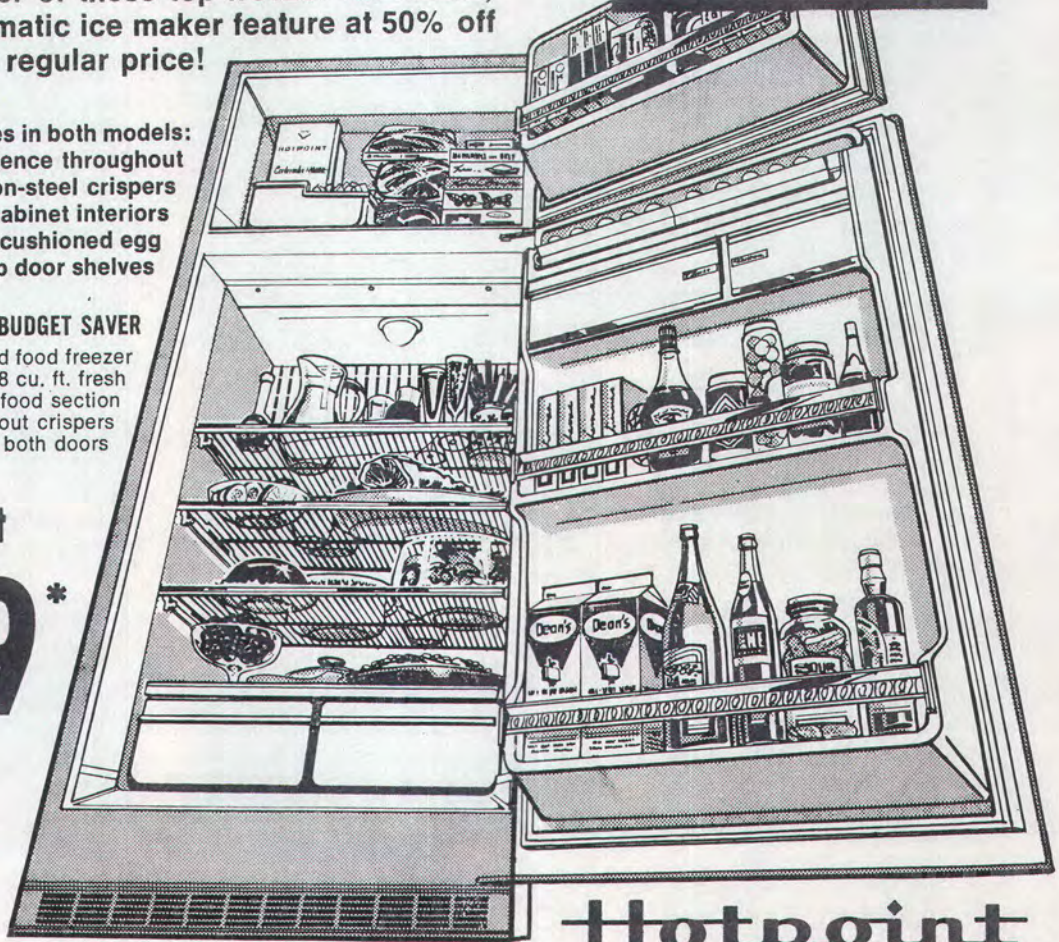
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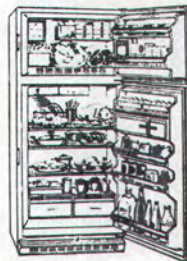
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\* Prices Optional — See your local Hotpoint Dealer



## YOUTH TOUR

(Continued from Page 19)

The night started out with stuffed lobster, well-done steaks, wiggling frog legs at the Flagship Restaurant; but it ended with sixty-six stuffed humans. Even after a meal like that, our group gathered with Texas, Indiana, and Oklahoma youths for a song fest. As curfew drew near, a prayer was lifted up; then all sang "Kum-Ba-Ya," and we went to our rooms with happy, thankful hearts. That was Tuesday.

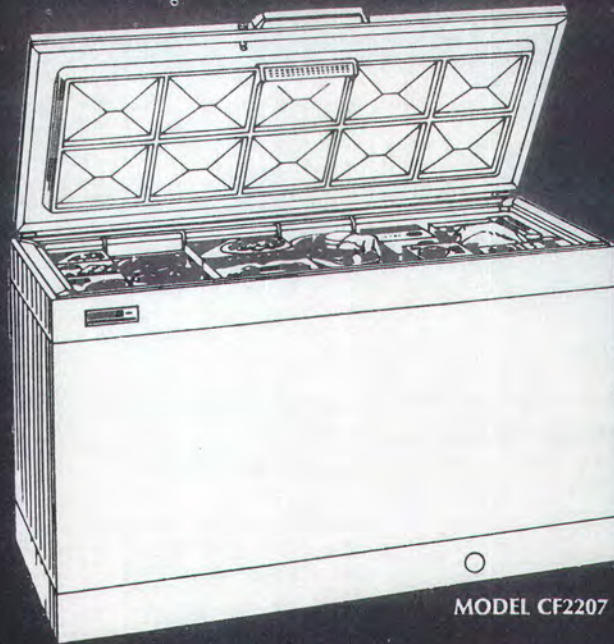
Wednesday morning rang out with NRECA Youth Day Ceremonies. Lewis Strong, president of NRECA, left us with this advice, "The only way you can repay the past is to put the future in debt to you." From that meeting we left for the White House, a place that has housed America's finest. That which we had seen in pictures was real, just as democracy is no idealistic picture — DEMOCRACY IS REAL. That is how we felt. Former astronaut, William Anders, encouraged us to prepare and to preserve. This group is in debt to its local cooperative for the opportunity of seeing the "Lungs of America."

Yes, we left Washington, D.C., on Thursday with mixed emotions. We had visited the Mall which offers the National Gallery of Art, the Smithsonian Institute, the National Archives, and many other national buildings. All these buildings are of stone and masonry, but it is what's inside these buildings that is precious. All the souvenirs purchased by our tour group will never take the place of what the "Tennessee 66" of the 1970 Rural Electric Youth Tour placed inside their hearts, the strongest buildings in the world.

Thanks to all the Tennessee local cooperatives for this program. There is no better means of public relations. Thanks to the chaperones, whose character helped influence a group which we will depend upon to keep a free Capitol for future generations to see.

Yes, there were misty eyes at departing, but the sale of postage stamps will increase for a while because of strangers who became friends on the way to Washington, D.C.

Washington, D.C. was fantastic. Virginia was beautiful. Tennessee is both, plus . . .  
*Tennessee is home.*



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LEWISBURG, TENN.  
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LIVINGSTON  
General Furniture Company  
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MADISON, TENN.  
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McMINNVILLE, TENN.  
Bert's Radio & Appliance

MT. PLEASANT, TENN.  
Easy Pay Tire Store

MURFREESBORO, TENN.  
Home Furniture Company

OLD HICKORY, TENN.  
Old Hickory TV Sales & Service

PORTLAND, TENN.  
Dan's Furniture & Appliance

RICKMAN, TENN.  
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Greenfield's Furn. & Appl.

SMITHVILLE, TENN.  
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**GENERAL MANAGER** — Manager for rural electric generation and transmission cooperative serving 8 members in Western Kansas. System now has one 18.5 MW plant with a 94 MW plant under construction. Operating agreements in effect for generation and transmission facilities. Will be primarily responsible for administrative aspects only. Engineering background helpful but not required. Ability to plan and negotiate for future power supply essential. Experience in management of an electric utility and knowledge of G&T operations desired. Excellent fringe benefits. Salary open. Reasonable moving costs will be paid. An equal opportunity employer. Apply on REA Form 328 to Mr. W. A. Dobson, Manager, Wheatland Electric Cooperative, Inc., P.O. Box 130, Scott City, Kansas 67871. Please have applications in by September 1, 1970.

Wanted: Wild Ginseng and other roots. Free List. Southeastern Fur Co., Route 4, Sumner, Illinois 62466.

**PEACH TREES,** Low as 30¢. Cherries, pears, apples, plum, nut trees, strawberries, blueberries, dwarf fruit trees, perennials. Grapevines 20¢. Shrubs, evergreens, shade trees, roses 25¢ up. Quality stock can't be sold lower. Write for FREE color catalog and \$2.00 FREE bonus information. TENNESSEE NURSERY COMPANY, INC. Box 80, Cleveland, Tennessee 37311.

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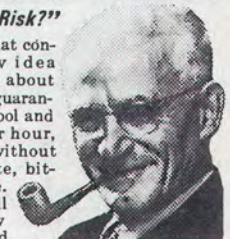
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# PUZZLE CORNER

The July Puzzle Corner was just that for many of our readers with fewer than 200 sending in the correct answer.

The puzzle concerned the bottom of the pendulum of a grandfather clock, hanging straight down and at the top of its swing. The question: If the horizontal distance by which the bottom of the pendulum is displaced five (5) inches and the vertical displacement is one (1) inch, how many inches long is the pendulum?

The answer: thirteen (13) inches.

The \$10 first prize winner of the July contest is Joe Huskey, Post Office Box 476, Copperhill, Tennessee 37317, a member of Tri-State Electric Co-op, Copperhill.

Second and third prizes of \$5 each, chosen by lot as is first place from all correct answers, go to B. F. Walker of Route 1, Bethel Springs, Tennessee 38315, a member of Pickwick Electric Co-op of Selmer, and to Mrs. James A. Greer of Route 2, Box 178, Fairview, Tennessee 37062, a member of Middle Tennessee Electric Membership Corporation, Murfreesboro.

And now for our August puzzle which might appear to have more than one possible answer, but doesn't.

Mr. Brown, Mr. Green and Mr. Black were having lunch when one of them, wearing a green tie, said: "Have you noticed? We have the same color ties as our last names, yet none of the ties match the name of the man wearing it."

"You're right," replied Mr. Brown. Which tie was each man wearing?

Send your name, address, and name of your electric co-op to:

Puzzle Corner  
The Tennessee Magazine  
P. O. Box 7232  
Nashville, Tennessee 37210

\*\* \* \* \* \*

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AUGUST, 1970

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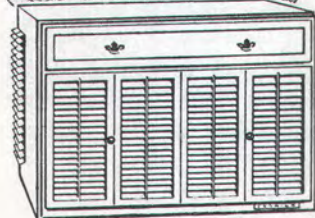
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