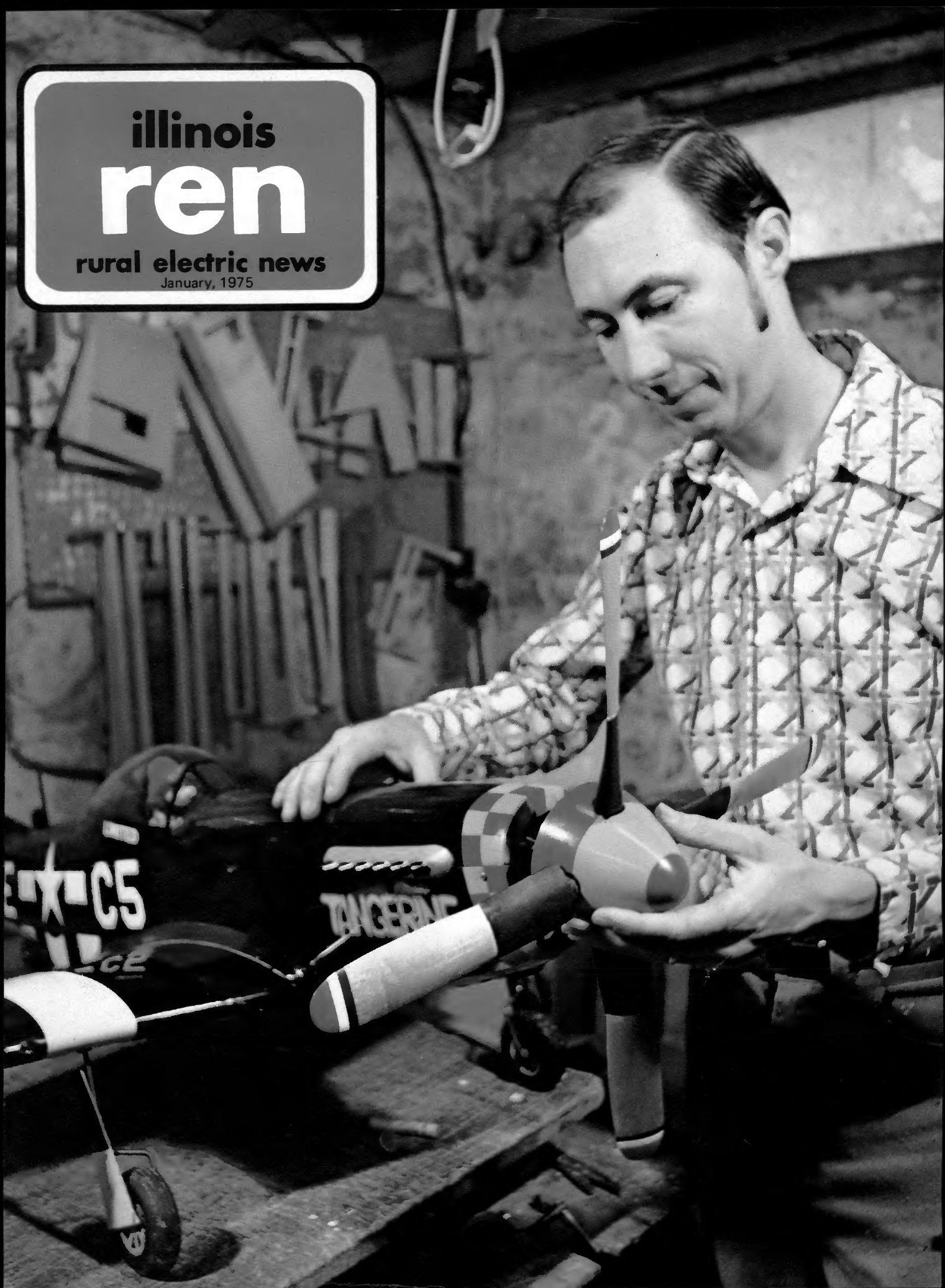


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rural electric news
January, 1975



Congress Refuses President Ford's Cut

The House of Representatives has insisted President Ford spend the \$540-million he wanted to cut from appropriations intended for the Department of Agriculture's Rural Electrification Administration and conservation program.

This marks the first time the House had invoked the provisions of the Congressional Budget and Impoundment Control Act of 1974 which states that, unless both Houses approve a President's request to withhold or reduce appropriated funds within 45 days, the President must spend them.

Electric Use in Rural Areas Increasing

Electric systems financed by the Rural Electrification Administration (REA) required 113.0 million megawatt hours (mwh) of electric energy to meet the demands of their consumers in calendar year 1973.

This was the largest annual input of electric energy in the 39-year history of the REA program, and exceeded the prior year by almost 8.8 million mwh.

The cost of energy purchased in 1973 averaged .84 cents per mwh—the highest since 1950.

David A. Hamil, REA Administrator, said the day of "bargain basement electric rates is past. The cost of electricity is increasing, and so is usage. The consumer, therefore, is paying more. But electricity still remains one of our biggest bargains considering the many ways it is used on the farm, and in rural homes and businesses."

Inmates Provide Christmas for Needy

When 22 parentless kids got exactly what they ask from Santa this year, they could thank a group of inmates at the Vienna Correctional Center.

According to the Rev. Herbert Bierman, chaplain at the center, the children are residents of the Mount Vernon Methodist Childrens' Home, and were treated to a Christmas party complete with games, food and gifts.

"A group of about 40 inmates here combined efforts in the project and contacted the children at the Home. We asked them to write down what they wanted for Christmas, and we gave it to them, whatever it was. In a lot of cases, we added something to their requests. One kid only asked for a record album—we gave him a portable radio to go with it."

Each member of the inmates' volunteer group donated most or all of their \$4 or \$5 monthly earnings at the prison, and collected the \$300 needed to carry off the project. "It was a real sacrifice for all of them, but it was something they wanted to do," says Rev. Bierman.

The party was held Saturday afternoon, December 14, at the Vienna center. A meal was provided in the kitchen, and after games and recreation, the kids opened presents and had a few other treats.

"I've been working at the center for seven years now," says Bierman, "and I've seen various groups come in at Christmas time to entertain the residents. It's very much appreciated—prison is a lonely place to be at Christmas—but I think that a project like this shows that the residents here don't like to be selfish. It means more when they're doing something for someone else. They miss that."

Ability to "Freeze" Prices Means Ability to "Fix" Prices

Three national food chains recently announced their plan to "freeze" prices on some food items. And that, proclaimed Rep. Frank Denholm of South Dakota, is "clear evidence of the capacity to fix prices on certain food items."

Congressman Denholm termed it "an unacceptable and intolerable fact that denies a price level to consumers or producers based upon supply and demand in the free and competitive market."

The announced imposition of a price freeze, and the implication of equal ability to control either ups or downs of prices, "should be a call to arms of the antitrust personnel of the U.S. Department of Justice and the Federal Trade Commission," declared the South Dakota legislator.

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COVER—Ralph White of Neoga changes propellers on his P-51 Mustang in his basement workshop, assembly line and design center. See story page 6.

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Illinois rural electric news

Over 100 Years of Service

This month three pioneers of the electric cooperative program stepped-down from their leadership roles.

Their combined length of service to the Illinois electric cooperatives is well over 100 years. The amount of man-hours they spent working for their cooperative is probably unmeasurable. And their contributions to them will be everlasting.

Managers Elmo Cates of Clay Electric Co-operative, Inc. Flora, Art Peyton of McDonough Power Cooperative, Macomb, and Herb Downey of Tri-County Electric Cooperative, Inc., Mt. Vernon, leave behind a tremendous record of service.

All three arrived on the electric cooperative scene in its infancy. And although they each faced similar problems, the area they served was as unique as the men were themselves.

Cates is considered a quiet man. He weighs his words carefully. But when he speaks, others listen.

For 27 years, Cates was the manager of the second smallest cooperative in Illinois with an average of fewer than three consumers per mile. More than one person through the years has written Clay Electric off as a lost cause. But those people did not know Elmo Cates. Today, the cooperative is one of the strongest in the state.

Downey had a completely different problem. On his first day of work, he had some 3,000 requests for electric service on his desk. Today the cooperative has more than 10,000 members.

Downey did not render yeoman service only to the cooperative's member-owners. He was dedicated to a better life for all people—rural and urban. He realized that their lives were so closely intertwined that what was best for one, was best for the other.

Peyton, too, has helped build a strong cooperative that provides dependable service to its member-owners. Engineering studies have shown McDonough could grow by 6,000 members in the next few years. Many have said the foundation for that growth was laid by Peyton.

Like Cates and Downey, Peyton had that something extra in life—the ability to help those in need. In 1966, he led a private fund drive to secure a diesel-driven generator for a medical mission in Africa. More recently, he has been in charge of a multi-million dollar trust for his church that provides funds for many humanitarian projects.

It would be rather trite to say these men will be sorely missed. But they are leaving the cooperatives in good hands—younger and less experienced, but capable hands.

Today's electric cooperative manager may face new problems, but his goal remains the same—to provide the best possible electric service at the lowest possible cost. With inflation, higher wholesale power cost and tough and expensive government regulations, that goal of "lowest possible cost" is becoming pretty elusive.

The men who follow Cates, Downey and Peyton have a clear path to go by. They helped build the walls of the cooperatives, now it's up to the new managers to help put the roofs on.

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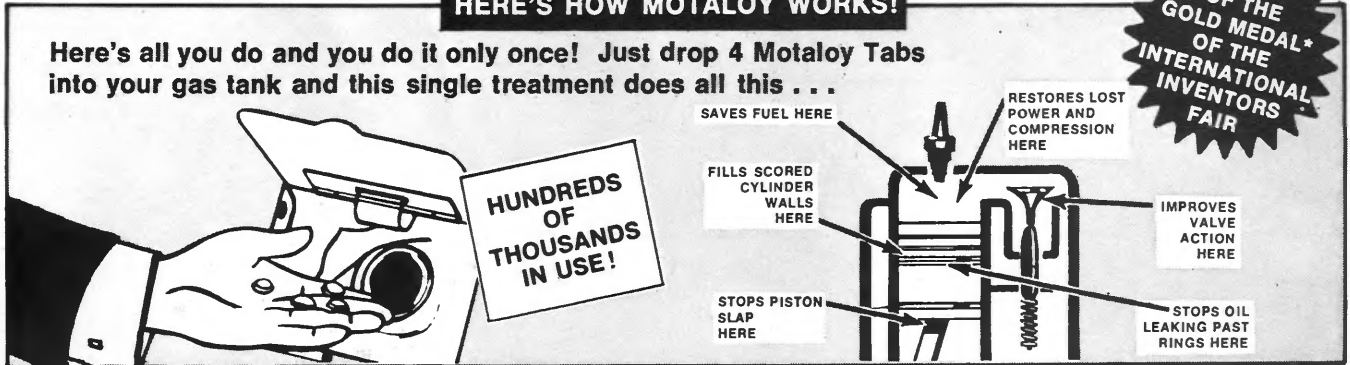
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"Motaloy raised the compression in my Chevrolet from 65 to 100 pounds, plus giving me five more miles per gallon."

W.A.C., Granite City, Ill.

"My tractor was in poor condition and ready for a complete overhaul job. Now after 5 months of use with Motaloy added the tractor has more compression and oil consumption has decreased by half."

E.H., New Plymouth, Idaho

"As instructor of the Automotive Shop I have been running a series of tests on your product 'Motaloy' and I wish to take this opportunity to report to you our findings. I put Motaloy in some 35 vehicles and have obtained marvelous results. In a majority of cases (all except 2 cars with burned valves beyond repair and/or broken oil and compression rings) the compression was brought up to factory specifications, oil consumption greatly reduced and gas mileage increased."

B.L.H., Instructor Automobile Shop, San Antonio, Texas

"We have sold Motaloy for nearly 8 years and have yet to have a dissatisfied customer. A good number of those who purchase buy again when they change cars. Many refer their friends to us when they see the results Motaloy gets in their own cars . . . a good job in increasing the efficiency and operation of their engine."

E.W., Service Owner, Texas

Ralph White of Neoga is generally regarded by his fellow aviators as a good pilot—though he has never had any formal training. He hasn't even cracked up an airplane in the past two years.

Two years without an accident is not a record many major airlines would envy, and flying without a license is hazardous, not to say illegal, but White is still a good pilot—a good model airplane pilot. Fly-

ing model airplanes is his hobby and all-consuming passion.

Unlike a growing number of other Walter Mittys who take to the air with their planes but manage to keep body and soul together by staying on the ground, White also designs and manufactures kits for construction of the planes out of his basement office, design center and assembly line.

Fliteglas Models, White's business,

has only been in operation in Illinois for the past year. It's the crowning of many year's interest and experience in modeling. It might not be fair to say White's whole life has been devoted to modeling, but it has been intermeshed with airplanes in one way or another since he was nine.

Electric power for White's business is provided by Shelby Electric Cooperative, Shelbyville.

model airplane pilot has situation



ABOVE: White designs his model airplanes in his basement, first making a plug from balsa or hardwood and then preparing a mold. The mold is then coated with fiberglass cloth and painted with resin to make the fuselage. RIGHT: With a little help from his son, White prepares his P-51 fighter plane, Tangerine, for takeoff.



"A bunch of us started with rubber-band models," White said. "From there we went on to control-line planes in high school. Most of the kids quit after high school, but it seems like I just never have."

After a tour in the United States Army—where he even then found some time to fly models at the bases—White entered college to study, what else, aeronautical engineering.

"After I graduated I went to work

for Boeing Aircraft in Seattle, Washington," White said. "I thought I had left models behind, but I hadn't."

White began working in the wind tunnel engineering group of Boeing where he tested scale models used to simulate real planes, in this case the Boeing 747. The models, unlike the ones White had constructed so far, were accurate to the best of man's technology and served as effective ways to test design structure and construction.

Were it not for the drastic cut-backs at Boeing, White might still be living in Seattle working on other people's models. He was laid off along with 60,000 other employees. For a man with a new wife, Martha, and seemingly a bright future, it was quite a shock.

"I didn't know what I was going to do at first," White said. "I had kept up with my model flying while I was in Seattle, though, and I had moved on to radio-controlled planes which are a lot more sophisticated and challenging."

"About the time of the layoffs I heard about a company in California which manufactured kits used in building planes was for sale. About a month later, I bought the company."

White learned the business for two months and then moved it back to Seattle where he stayed for four years. Finally, he moved back home. Since he has returned to Neoga, business has doubled and he has yet to catch up with his orders.

White is one of the few model kit designers who deals exclusively with fiberglass for plane fuselages. Although there are several companies which market model kits for radio-controlled planes, most sell balsa wood kits because they are cheaper. As far as White knows, there is only one other company which markets fiberglass model kits on a full-time basis. There are about 400-500 different kits available on the market.

"We make a lower-volume, higher-priced product," White said. "It costs more for a fiberglass fuselage than balsa because there is more labor involved and because the price

of the raw materials is higher."

According to White, there are around 200,000 active modelers, and each usually has more than one plane. The fiberglass models such as White makes are becoming increasingly popular among these highly selective buyers, even if they are higher in price.

"One reason is time," White said. "It takes a modeler about two or three weeks to build a fiberglass kit, install the radio and controls and be ready to fly. It takes about two or three months just to assemble a balsa model."

When White took over the company it was producing six different kits. It is now producing 13 different kits.

"A model plane someone has designed will get a local reputation among modelers who see it at shows and competitions," White said. "When I see a plane that has potential and has gotten a lot of publicity, I contact the owner and see if we can't work something out."

Most of the planes White has for sale are replicas of World War II fighter planes or stunt planes gleaned from other designs.

After deciding on a design, White settles down for some hard work before the final product is ready for sale.

First, a mock-up called a plug is made from balsa or hardwood. It takes about two to three weeks of full-time eight hour-a-day labor. Then, a mold is made from the plug. The mold is the heart of the model. Fiberglass cloth sheets are laid in the mold and coated with resin which is allowed to harden. The two are then separated and a fuselage section of the kit is completed.

The rest of the kit consists of accessories and the wing assemblies. The wings are cut by White from Styrofoam. When a modeler buys the kit, he will cover the Styrofoam with balsa wood which is also in the kit. Painting and marking the plane is left to the buyer.

White manufactures only the kits, leaving the radio controls and engines to others. Although most of the

(continued on page 17)

in hand...





LEFT: Even during his last few days at the office, Herb Downey continued to have a heavy work load. BELOW: Art Peyton speaks at a meeting about the importance of checking for underground lines before construction starts. BOTTOM: Elmo Cates, left, talks with Clay's new manager, Stan Huffman, at last year's annual meeting.

Herb Downey

The people who are in the service territory of Tri-County Electric Cooperative, Inc., were indeed fortunate 30 years ago when the cooperative's board hired a young engineer from Jerseyville to manage the cooperative.

Not only has Herb Downey helped provide the cooperative's member-owners with a dependable supply of power, he also has been a leader in civic and community projects.

Tri-County's success story really began a few years before Downey became manager in 1944. In 1939, when most cooperatives' were struggling to get a few hundred members signed up for electrical service, Tri-County had energized its first 600 miles of lines to serve 1,124 member-owners.

In fact, on Downey's first day on the job he was faced with 3,000 applications for service in the rural areas surrounding Mt. Vernon.

Today the Mt. Vernon-based cooperative serves more than 10,000 member-owners along some 2,300 miles of line in Jefferson, Marion, Washington, Franklin and Perry counties. According to cooperative leaders, Downey has played an integral part in the cooperative's growth and present success.

"I can remember in 1953 when we moved to our present headquarters. We thought it was way out in the country," Downey recalled as he reflected on changes in the area over the years. "Today, the coopera-

tive is surrounded by Mt. Vernon. We've also had to double the size of our office and warehouse."

Downey has always believed the cooperative should be active in the community. He served on the committee to bring the first locker plant to Mt. Vernon in 1946; is a long-time member of the Mt. Vernon Lions Club and served as its president in 1964; and became a director of the Greater Jefferson County Chamber of Commerce in 1966 and served as its president in 1972.

In 1967 he was elected state deputy of the Illinois jurisdiction of the Knights of Columbus. As state deputy he directed statewide activities of the order of more than 77,000 Catholic men.

"At Tri-County, we feel we have a responsibility to aid in community development in every possible way," Downey explained.

"When the Mt. Vernon United Fund was organized I was chairman of the first drive," he said. "We raised more money than in any year since. Of course, it was the first drive—enthusiasm was high. Also, I had the eager support of all of the people connected with Tri-County Electric. I couldn't have done whatever I was able to do without them.

"We encourage our people to be active in civic, church and community affairs which help to develop a better area in which to live and work. We think they have a special skill and we're happy to have them use it in the best interests of the areas we serve."

So, after 30 years of service, retirement comes for Downey. No doubt his retirement will be an active one, especially in community affairs. He and his wife, Gertrude, will continue to live in Mt. Vernon and he will remain on call to lend assistance to another young engineer—Allen Sisk, the cooperative's new manager.

Three Retiring Managers, Three Different Stories, Endings All the Same . . .

Sisk came to Mt. Vernon from Carlsbad, New Mexico, where he was employed by Southwestern Public Service Company as a district engineer. He is a native of Missouri and received his Bachelor's Degree in electrical engineering from Kansas State University.

At a recent dinner honoring Downey for his years of service to the electric cooperative movement, William H. McCamey, manager of Spoon River Electric Co-operative, Inc., Canton, and president of the Illinois Electric Cooperatives' Managers' Association, summed up the feelings of several electric cooperative leaders when he said:

"Herb Downey represents the spirit of community involvement that all electric cooperative managers share. He has not only rendered a great service to his cooperative, but to the people of his area as well."

Art Peyton

Art Peyton is a very lucky man. Few of us in our lives have an opportunity to lend a helping hand in a really important way to our fellow man. But in Art Peyton's lifetime, he has touched the lives of thousands.

Even before Peyton became manager of McDonough Power Cooperative, Macomb, he had already built a distinguished record in the field of rural electrification.

A registered professional engineer, he was employed by the Central Illinois Public Service Company for 10 years and by the Rural Electrification Administration (REA) as a construction engineer.

Headquartered with the REA in Washington, D.C. until 1947, he was active in Nebraska, Colorado, Kansas and the Dakotas where he assisted in pole procurement work following World War II.

He came back to Illinois as a field construction engineer for Shelby Electric Cooperative in 1947. Later that year he became manager of McDonough Power Cooperative.

Under Peyton's able leadership, the cooperative has grown until it now serves more than 4,200 member-owners living in McDonough, Warren, Hancock, Henderson, Schuyler, Knox and Fulton Counties. The member-owned business has assets of approximately \$3.5 million.

One reason for McDonough's steady growth is that in 1966, the cooperative secured a franchise which enabled it to continue to serve areas surrounding the city of Macomb as the city limits were expanded.

A recent study of a six-mile radius of Macomb served by the cooperative revealed that in the next few years, cooperative membership may be expected to increase by 10,000 members.

But Peyton's work has not been limited to the McDonough service area. In fact, his rural electrification work is internationally known.

In 1965, Peyton and his family traveled to Sierra Leone in West Africa where he was assigned to investigate the possibilities of establishing an electric cooperative in that underdeveloped nation. In 1966, he made a similar trip to Morocco. Both trips were sponsored by the National Rural Electric Cooperative Association under a contract with the Agency of International Development of the State Department.

While in Sierra Leone, Peyton met Dr. Lowell A. Gess of Nerstand, Minnesota. Dr. Gess was the head of the Tiama Medical Mission. Located in the humid, snake-infested interior jungle of Sierra Leone, the mission lacked an adequate generator for its hospital.

(continued on page 16)

Elmo Cates

It's a tough job being a manager of an electric cooperative. It's an even tougher job when you are the manager of the second smallest cooperative in the state with an average of fewer than three consumers per mile of line.

For the past 27 years, Elmo Cates, manager of Clay Electric Co-operative, Inc., Flora, has taken his job pretty much in stride even back in the early 1940s when the War Production Board issued an order to immediately halt all activities by the cooperative. It was pointed out that all available equipment and manpower were needed for the war effort.

It was a time of real gloom. Fence rows cleared for distribution lines were once again covered with brush. Some of the members moved away. The feeling among many people was that rural electrification in Clay County would be unlikely for many more years.

"Things were at a complete standstill," Cates recalled. "If you had polled the membership of the cooperative, three out of four persons probably would have told you the cooperative was dead."

But soon after that, the War Production Board reconsidered the importance of adequate electric power to farmers in the production of food and fiber and rescinded its order.

Finally, on September 9, 1944, 49 miles of line were energized and 204 members received central-station electricity for the first time. The person to throw the switch—Line Superintendent Elmo Cates.

The cooperative had gotten a late start in the field of rural electrification. It was not until 1940 Clay County residents even organized their own cooperative.

A few short years later Cates arrived, after working five years as a lineman at Wayne-White Counties Electric Cooperative, Fairfield.

After three years as line superintendent, Cates was employed as manager in 1947, a position he held until his retirement on December 31, 1974.

(continued on page 16)

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ILLINOIS RURAL ELECTRIC NEWS



Bache Chapel

“He who leaves the world better by his having lived, has not lived in vain.”

This was a favorite phrase of Joseph Lloyd Bache (Bay-che), a schoolmaster who compiled a modest fortune through shrewd investments and conservative living.

Bache, a Chicago resident, died October 1, 1965. Having no children, he left two-thirds of his \$1.7 million estate to the trustees of Garrett Township (Cartwright) Cemetery of Tuscola. It was here he grew up and it was here his will directed a fitting memorial be built.

Planning for the memorial began in 1970, keeping in mind the building was to be used for weddings,

community activities, funerals and interdenominational worship.

He wanted the memorial to be constructed of lasting material, designed to provide modern comfort and to have a restful and attractive atmosphere for any gatherings.

The memorial was fashioned in the tradition of English country churches, “bearing in mind modern design.”

To accomplish this, Joseph E. Coble, an architect from nearby Urbana, spent a week in England studying architectural designs of churches.

As a result of the study, a unique structure, which would later bear the name Bache Memorial Chapel, be-

gan to rise from the flat Illinois plains.

The memorial was literally poured out of 12 million pounds of concrete, enough to pave a two-lane highway a mile and a quarter long. Its 18-inch thick walls were left bare to resemble stone.

The sheer, rising walls of the building are severed by a steep roof and a 100-foot high clock tower. The tower has an observation platform accessible by 92 steps, from which visitors can view the surrounding countryside. Its roof is formed out of stainless steel terne and the doors are handmade from heavy oak timber.

(continued on page 21)

Everyone on earth will be affected by the current energy shortage with Americans at the top of the list.

Americans are so dependent upon coal, gas and oil that experts estimate each year a person uses fuel and electricity equal to the work of 80 laborers.

Our natural resources are nearly depleted and the future holds no more low cost energy. We must make the most efficient use of the materials which remain. All of us can start this efficiency at home.

How can we save energy in the home?

Take a modest three-bedroom house with 1200-square feet of floor space. By today's standards, this sample house is heavily insulated. About \$450 worth of energy is needed to provide heating, cooling, lighting and power for household equipment for one year.

Taking a closer look, the utility costs breakdown like this:

Heating and cooling	\$285.00
Water heating	74.00
Refrigeration	27.00
Cooking	18.00
Lights	13.00
Clothes dryer	12.00
Television	8.00
Dishwasher	6.00
Clothes washer	2.00
Misc.	5.00

These are rough figures and the cost will vary with the size and shape of the house. The significance is that \$359.00 of the total bill is used in cooling, heating and water heating.

Another look will show 62 percent of the total bill (\$285) was used only for heating and cooling.

Looking at this \$285 heating and cooling bill, we find roughly 28 percent of the energy is lost through windows, 27 percent is lost through cracks and open doors, 18 percent through walls, 12 percent through ceilings, 10 percent through floors and five percent through closed doors.

These figures indicate 55 percent of heat loss or gain is through windows and openings in the house.

In most houses, if you add up the area of cracks around outside doors, windows and around switches and light fixtures, the total is equal to having a four-foot square hole in the side of the house.

It is obvious that plugging these leaks will cut energy loss. Weather stripping, caulking and the use of storm doors and windows will also help conserve energy.

A tight-fitting damper on a fireplace will keep valuable energy from going up and out of the chimney when there is no fire. Fireplaces designed to recirculate air will also help conserve energy.

Outside doors should have hydraulic or spring door closers. If anyone is really serious about cutting down this type of infiltration, a vestibule with an extra door may be a solution.

Making sure furniture and draperies are not blocking heat ducts will add to the efficiency of a heating system, while pulling draperies

in the evening will insulate against the cool evening air.

When building homes one should keep in mind these and other ideas:

The use of polyethylene sheeting between the framing and dry wall will not only act as a vapor barrier, but will prevent air leakage through the walls. When installing, it should be taped around pipes, ducts and electric outlet boxes.

Heat loss through glass can be reduced by locating major window areas on the southside of a new or remodeled home and covering them with storm windows or plastic.

Two panes of glass will suffice, but three panes prevents the transfer of heat even further.

The shutters of our architectural past acted as insulation; maybe the future will hold in store a functional shutter designed to stop heat loss.

With insulation in mind, why not

building
↑
energy

place it in interior walls during home construction or remodeling. It provides soundproofing and permits turning the heat off in areas not being used.

Closets on the outside walls of the north and west sides of the house also help insulate the living areas from the cold winds. Wall-to-wall carpet will also add to the comfort level in homes.

Practically all homes in the U.S. need heating systems and one of the most efficient is the heat pump. It produces twice as much heat and cool air from the same amount of energy as other systems. In summer the unit reverses itself and acts as an air conditioner. If purchasing a heat pump, check its efficiency rating and make sure it is installed properly.

In summer, an attic may reach temperatures of 150-degrees. A thermostatically-controlled fan, along

with a humidistat will reduce both temperature and moisture build-up.

Humidity control in the winter time is also important. With an inside relative humidity of 45 percent, most people are comfortable at 69 degrees. However, a 10 percent drop in humidity causes the temperature to be increased to 76 degrees to reach the same comfort level. This seven degree increase is equal to a 21 percent increase in heating costs.

Our modern way of life also demands an abundance of hot water.

This energy consumption can be cut by installing the water heater close to the area of greatest use. In a large house with a family of five or more, two small water heaters may be more economical than one large unit.

Extra savings can be achieved by saving hot water for white, colorfast cottons and heavily soiled clothes.

Most newer fabrics don't require hot water for adequate cleaning.

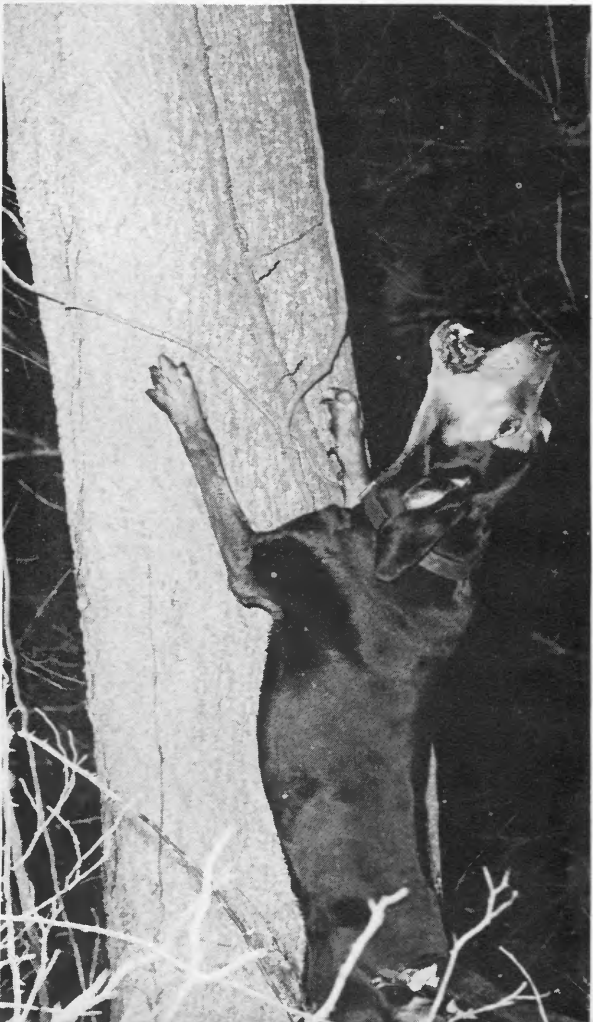
Making your automatic dishwasher do a day's work will save energy, while doing dishes by hand and using a stopper or dishpan can achieve the same effect.

Generally, less hot water is also required to take a shower, thus saving water and heat energy.

Going directly to the source of the hot water, energy can be saved by not overheating the water in the first place. Under most conditions, a thermostat set at 150 degrees Fahrenheit provides comfortably hot water.

There are many Do's and Don'ts to help keep energy bills low. Practicing a few of the ideas mentioned will save the consumer money and energy. It will also help conserve what natural resources we have left.

to Conserve Energy



the great american coon hunt

by Jim Pottorf

We were looking for a story at Edgar Electric Co-operative Association in Paris. As I stood out in a farmer's field on a cold, windy and dark November night, I kept thinking, "surely there must have been some OTHER story!"

When I got the invitation to go on a raccoon hunt with Ed Adams, a lineman with the cooperative and raccoon hunting aficionado, my first reaction was "you can't fool this kid." Having been a veteran of several snipe hunts when I was younger, I thought I was in for something similar.

Little did I realize I could have offended thousands of hunters who actually do go after the furry little bandit-faced fellows. Any day I expect a seething editorial from one of the many (I found out there were such things) coon hunting magazines. I guess I could always plead ignorance—it has gotten me through before.

Two days before I ventured to Paris, it was probably one of the most pleasant days of the year. And, as luck would not have it, the night I did go was the night after the first snow storm of the year. It was cold.

It was cold enough for John Robinson, member public relations director for Edgar Electric, to first wonder if I was coming, then shake his head. It was also cold enough for three other Edgar members who were going out to remember previous engagements. Probably the only person it wasn't too cold for was Ed—he seems to thrive on it.

We packed up two coon hounds in Ed's combination pickup and mobile kennel and drove off into the night.

"It all depends on whether the coons are going to go out to feed early or late," Ed said. "You have to be right when you pick for the best hunting."

I was by now feeling a slight chill; I was hoping the coons wouldn't come out, see their shadow and go back up a tree. Or is that groundhogs?

"I have been doing this since I was in my teens," Ed said. "A lot

of people do it for the money, and I'll admit I do too. But there is something great about coming out at night and just walking the land and hunting with the dogs."

There is money in coon hunting. The little critters fetch a decent price on the fur market and wind up being coats, capes and robes. They also wind up being automobile antenna ornaments, although they will never replace furry-dice and winking dogs in the rear window.

On the average, a coon weighs about 13 or 14 pounds, although like fish, it begins to weigh more for some hunters after the hide has already been sold. Ed said there are a few coons that weigh more than 20-24 pounds but that they are rare. He also said if the number of coons weighing this much are actually shot, there is a raccoon population explosion he doesn't know about.

The hides sell for between eight and 10 dollars, depending on the size. The meat is also sold and according to Ed, it doesn't taste too bad when it is barbecued. Somehow I hoped he didn't have some in the freezer for me to take home.

Equipment for coon hunting and the methods used are simple. You lay out money for a coonlight, a rifle, some tall boots and the dogs.

"That's one of the reasons I hunt a lot, too," Ed said. "I have to pay for the dog food."

A good puppy will sell for between \$100 and \$600, while an established coon dog could bring more than \$8,000. A lot of money even for Lassie.

As soon as we hit the first field, Ed let the dogs go. They sniffed, howled and started running—seemingly with a destination in mind.

"We'll just hang back a bit and let them go," Ed said. "We'll be able to tell when they have the scent and are on the trail." Kind of a sit back and leave the hunting to us attitude.

A lot of the game of coon hunting is walking. We started ambling down rows of corn stalks; or rather while Ed walked I tried to juggle a few pounds of camera equipment and shuffle along.

"Coons are curious animals," Ed said as he flashed his headlight into the trees and brush. "When they see a light, it is just natural for them to look at it. You can see their little, red eyes shining then."

A lot of the people who are in coon hunting just for the money have found a shortcut and have taken most of the sport out of it, Ed said. It's called spotlighting—just driving down a road in a truck outfitted with spotlights and shooting the coons out of the trees when they see them.

"Most of the people I hunt with don't like that kind of thing, and neither do I," Ed said. "They are just money hungry, they couldn't care less about sport."

The night before, Ed had gone hunting by himself and gotten five coons. In Illinois, there is no limit to the number you can shoot, but the season only runs for three months.

We weren't so lucky the night I went with him. About an hour and a half after we started, we heard a different pitch in his dogs' barking. A couple of minutes later I had this feeling something was happening.

We caught up to the dogs, who, in turn had caught up to and treed Mr. Rocky Raccoon. About one shot later, it was over.

"You have to watch the coons even after you tree them," Ed said. "You can catch a coon, or you get caught by a coon; the difference is whether you wind up getting hurt."

A treed coon reacts similar to a cornered tiger, Ed said. In other words, the best defense is a good offense to borrow from my sports-writing days.

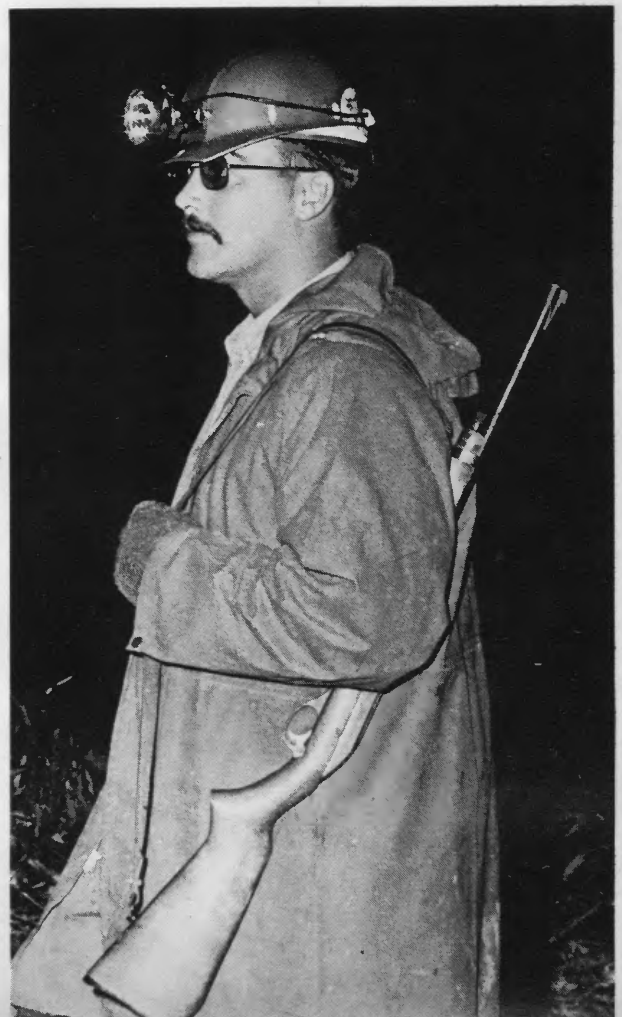
A coon has both claws and sharp teeth. Although their main diet is nuts, corn, fish and small reptiles, I

didn't particularly want to put it to the test. Especially after Ed told of other hunters winding up in the hospital, or having their dogs killed. The most common occurrence is for a coon to grab a dog by the neck and take it into water. The dog usually winds up second-best.

I think Ed was ready to stay out for a lot longer time, but I had a long drive so we packed the dogs, flopped the coon into the truck and left.

What can you say? Despite my earlier misgivings, a slight sniffle that lingered for days and an editor who wondered why I didn't make it to work on time the next day, I wouldn't mind doing it again. I might even subscribe to one of those coon hunting magazines.

OPPOSITE, ABOVE: The beady eyes of Mr. Raccoon peer down, obviously wondering who has disturbed his evening. OPPOSITE, BELOW: Coon hounds take the phrase "treeing a coon" very literally. BELOW: Just your everyday coon hunting clothes—fit for the coal mine or an assault on Normandy.



Art Peyton

(continued from page 9)

Dr. Gess, whose specialty is eye surgery, was operating a hospital which was little more than a roofed structure with no walls and exposed to the dust and flies.

Peyton suggested a diesel-driven generator as a solution to Dr. Gess' problems. Dr. Gess agreed, but the problem of how to get it was left up to Peyton.

After returning to the United States, an appeal for funds was made by Peyton. Soon, checks started to pour in; many from Illinois electric cooperative members. Enough money was raised and the generator sent to Dr. Gess. Today it is at work, generating electricity that assists in bringing modern-day surgical techniques and medicine to thousands of poverty-stricken Africans.

More recently, Peyton has provided outstanding leadership as chairman of a subcommittee of the Association of Illinois Electric Co-

operative's Power Supply Committee. Peyton served as chief spokesman for the group in the recent wholesale power contract negotiations with Central Illinois Public Service Company (CIPS), from which 17 Illinois cooperatives purchase all, or part of, their wholesale power requirement.

Through the efforts of Peyton and other members of the subcommittee, the group negotiated a reduction in the original increase proposed by CIPS by as much as \$850,000 annually.

This month, Robert Pendell took over as manager of the cooperative. Pendell came to work with the cooperative in 1947 as a lineman at the princely sum of 52 cents an hour—top wages in those days. He has served in many different capacities with the cooperative, including power use adviser and assistant manager.

Although Peyton plans to spend a considerable amount of time traveling with his wife, Glenna, visiting with his grandchildren and working

for his church, he still will be close to lend a helping hand if the cooperative needs him. His house is located only two blocks from the cooperative.

Art Peyton is like that. He has that special gift to lend a helping hand when it is needed most.

And those he has touched have indeed benefited many times over.

Elmo Cates

(continued from page 9)

"What Clay Electric Co-operative is today, Elmo made it," Board President William Stanford of Flora said during the cooperative's annual meeting last year. "By his dedication, his persistence and his ability to work with people, Elmo has built Clay into one of the strongest cooperatives in the state."

"I believe the thing I remember most about my years with Clay was our battles to secure enough loan funds to pull the oil field loads," Cates said. "I really believe getting over 140 pumping unit connections in the oil field is what made Clay. Before, we had operated with a deficit. In 1950, the oil load put us on the good side of the ledger."

Financially, Clay is in an enviable position. "Although the cost of wholesale power the cooperative purchases for distribution has risen drastically and we have increased our assessments to cover this increased cost, we still have one of the lowest rate schedules in the state," Cates explained.

Cates and his wife, Velma, plan to travel a little and visit their son, Robert, who is a college professor in New Mexico, and three grandchildren. "Other than that, I plan to spend most of my time working around our home," Cates said.

The new manager of Clay is Stanley N. Huffman, who has been assistant manager since July, 1974.

"I believe the cooperative will show a slow, steady growth over the next few years and Stan is the person who can ensure that the cooperative handles this growth well," Cates said. "He is the type of man who can get the job done."



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Meat, potatoes & trimmings---

ROAST RIBS OF BEEF

Place roast, fat side up, on rack in open roasting pan. Insert meat thermometer so bulb is centered in the thickest part of roast. Do not add water. Do not cover. Roast in a slow oven (325°F.) to desired degree of doneness. The meat thermometer will register 140°F. for rare; 160°F. for medium; 170°F. for well done. For a 4- to 6-pound roast, allow 26 to 32 minutes per pound for rare, 34 to 38 minutes for medium and 40 to 42 minutes for well done. For a 6- to 8-pound roast, allow 23 to 25 minutes per pound for rare, 27 to 30 for medium and 32 to 35 for well done. For easier carving, allow roast to "stand" in a warm place 15 to 20 minutes after removal from oven. Since roasts usually continue to cook after removal from oven, it is best to remove them when thermometer registers about 5°F. below the temperature of doneness desired. Before carving roast, remove strings; with a sharp knife, remove backbone and feather bones from roast.

SOUFFLE-TOPPED TWICE-BAKED POTATOES

8 Idaho potatoes
 2/3 cup milk
 1/4 cup butter
 2 teaspoons salt
 1/8 teaspoon pepper
 2 egg whites
 1 cup dairy sour cream
 1/2 cup snipped parsley
 1/4 teaspoon salt

Scrub potatoes, prick each with a fork and bake at 375 degrees until done, approximately 1 1/2 hours. Cut slice from top of each potato immediately and scoop out centers, being careful not to break skins. Mash potatoes; add milk, butter, 2 teaspoons salt and pepper and beat until light. Pile mixture into potato shells. Let cool, if desired.** To prepare topping, beat egg whites until they hold peaks. Combine sour cream, parsley and 1/4 teaspoon salt and fold into whites. Spoon topping on stuffed potatoes and return to oven for 15 to 20 minutes, until topping begins to brown.

*Potatoes can be baked with roast at 325 degrees until done, approximately 2 hours.

**If stuffed potatoes are allowed to cool, reheat for 15 minutes in 325 degree oven before adding topping.

BROCCOLI WITH CALIFORNIA ONION DRESSING

1/2 cup California Onion Dressing
 2 pkgs. (10 oz. each) frozen or 1 bunch fresh broccoli, cooked and drained
 1 tablespoon chopped pimiento

In small saucepan, warm California Onion Dressing. Pour over broccoli before serving. Sprinkle with chopped pimiento. Yield: 6 to 8 servings.

ORANGE BAVARIAN CREAM

1 tablespoon unflavored gelatin
 1/4 cup cold water
 3/4 cup orange juice
 2 tablespoons lemon juice
 1/2 teaspoon grated orange rind
 1/3 cup sugar
 1/4 teaspoon salt
 1 cup whipping cream
 1 cup fresh orange sections, cut in pieces

Soften gelatin in water. Combine fruit juices, orange rind, sugar, and salt; heat to simmering. Dissolve gelatin in hot mixture. Chill until mixture begins to thicken. Whip cream only until stiff. Fold whipped cream and orange sections into gelatin mixture. Pour into a 1-quart mold and chill until firm. 6 servings.

CDQ WHITE BREAD

(Tall, handsome loaf of white bread)

2 pkgs. active dry yeast
 3/4 cup warm water (105-115°)
 1 1/4 cups buttermilk
 4 1/2 - 5 cups all purpose flour
 1/4 cup shortening
 2 tablespoons sugar
 2 teaspoons baking powder
 2 teaspoons salt
 Soft butter

Grease a dull aluminum, glass or darkened metal 9 x 5 x 3" loaf pan. Dissolve yeast in warm water in large mixer bowl. Add buttermilk, 2 1/2 cups flour, shortening, sugar, baking powder and salt. Blend 30 seconds with electric mixer on low speed, scraping sides and bottom of bowl. Beat 2 minutes on medium speed. Stir in remaining 2-2 1/2 cups flour. Dough should remain soft and slightly sticky. Knead 5 minutes, or about 200 turns on a generously floured board. Roll dough into an 18 x 9" rectangle. Roll up from short side as for jelly roll. With side of hand, press each end to seal. Fold ends under loaf. Place seam side down in loaf pan. Brush loaf lightly with butter. Let rise in warm place until doubled, about 1 hour. (Dough in center comes about 2" above pan.) Heat oven to 425 degrees. Oven rack should be lowest position or bread will brown too quickly. Bake loaf 30-35 minutes. Remove from pan and brush with butter; cool on wire racks. Makes 1 loaf. (You can make 2 smaller loaves by using two 8 1/2 x 4 1/2 x 2 1/2" pans. Divide the dough in half after kneading.)

GREEN BEAN SALAD

2 large cans French-style beans
 2 tablespoons minced onions
 6 tablespoons Italian dressing (1 use Good Seasons)
 3 large tomatoes (wedged)
 1 cup sour cream

Drain green beans. Mix sour cream, onions and dressing. Pour over beans. Let set for at least 4 hours (overnight is better). Just before serving, cut tomatoes in wedges and arrange on top. Delicious.

POLYNESIAN CHICKEN SALAD

2 cups cooked chicken, cut into small pieces
 1 1/2 cups diced celery
 1 1/2 cups diced canned pineapple, or white seedless grapes
 1/4 cup shredded carrots, not grated
 1/2 cup toasted almond halves
 1/2 cup mayonnaise
 1/4 cup commercial sour cream
 1 teaspoon curry powder
 1 teaspoon fresh lemon juice
 1/2 teaspoon salt
 Salad greens
 Minced parsley

Combine chicken, celery, pineapple or grapes, carrots and almonds. Blend mayonnaise with sour cream and seasonings, pour over chicken and toss lightly. Chill, serve on greens with minced parsley.

CHICKEN SPAGHETTI

1 small green pepper, chopped
 2 stalks celery, chopped
 1 pint chicken broth
 1 small jar chopped pimiento
 1/2 lb. cheddar cheese, grated
 1 small can mushrooms, chopped
 3 lb. fryer, stewed and boned
 1 8-oz. pkg. spaghetti

Cook chicken, saute green pepper, celery and onion. Add pimiento and mushrooms. Cook spaghetti in broth about 10 minutes. Combine all ingredients, stirring in cheese last. Pour into a large casserole and heat in a 250-oven until serving time.

CABBAGE SLAW

Shred 1 head cabbage. Dice 1 large onion and mix. Put 1 heaping tablespoon salt in. Add 1 cup boiling water and let stand 1 hour, covered. Drain well. Add 1/4 cup water, 3/4 cup white vinegar, 1 cup sugar. Stir well until dissolved. Add 2 tablespoons pimiento, 4 tablespoons chopped bell pepper, 1 grated carrot, 1 teaspoon each of celery seed and mustard seed. Pack into jar and refrigerate several hours. Will keep about 8 weeks.

COCONUT-YAM CASSEROLE

4 medium yams, cooked and mashed
 1 teaspoon salt
 2 tablespoons butter
 1 tablespoon brown sugar
 1/2 teaspoon grated orange rind
 1 teaspoon melted butter
 1 cup coconut
 6 slices pineapple
 2 lbs. hot baked ham

Combine yams, salt, butter, brown sugar and orange rind. Shape into 6 balls, add melted butter to coconut, mixing well. Roll balls in coconut. Place pineapple on ham in casserole. Brush pineapple with melted butter. Bake at 350 degrees 10 minutes. Place balls in center of each pineapple slice. Bake 15 minutes longer or until coconut is golden brown.

FRUIT SALAD

1 cup hot water
 1 pkg. gelatin (lemon, orange or pineapple)
 1 cup crushed pineapple
 1 cup miniature marshmallows
 1/2 cup cottage cheese

Dissolve gelatin in hot water, add rest of ingredients immediately. When it sets slightly, stir in 1 cup of Cool Whip. Let set in refrigerator.

BANANA CREAM CHEESE PIE

1 baked 9-inch pie shell
 1 8-oz. pkg. cream cheese, softened
 1 can sweetened condensed milk
 1/3 cup lemon juice
 1 teaspoon vanilla
 4 med. ripe bananas
 2 tablespoons lemon juice

In medium bowl, beat softened cheese until light and fluffy. Gradually stir in sweetened condensed milk until thoroughly blended. Stir in 1/3 cup lemon juice and vanilla. Slice 3 bananas; line crust with banana slices. Turn filling into crust. Refrigerate 2 or 3 hours. Slice fourth banana, dip in lemon juice. Garnish top of pie with banana slices.

ORANGE CAKE

1 orange
 1 1/2 cups sugar
 1 cup raisins
 3/4 cup shortening
 1 egg
 1 cup buttermilk
 2 cups flour
 1 tsp. soda
 1/2 tsp. salt

Squeeze juice from orange, put juice in small bowl with 1/2 cup of the sugar. Set aside until cake is done. Grind orange peel and the raisins. Cream sugar and shortening until creamy. Add egg, orange peel and raisins. Sift dry ingredients together. Add alternately with buttermilk. Mix well. Pour into a greased and floured tube pan. Bake at 350 degrees until done. Glaze with the juice-sugar mixture while cake is hot. This cake is better to let stand for several hours before cutting.

HAILED BY MANY AS...

MIRACLE HEALING FOODS for the Relief of Signs of Illness!

Yes, Dear Friend:

Did you know that—right now—there is an ordinary vegetable, stored and forgotten in most kitchens, that is said to relieve many of the diseases of aging? According to one authority . . .

In the forests of Siberia, where it grows wild . . . the aged . . . the paralyzed . . . the sick . . . come on pilgrimages to eat of this wild vegetable and are relieved of their ills—rejuvenated and healed! He adds . . .

In Russia and Poland, among those who eat it, cancer is unknown and life averages over a century! Yet this amazing substance is available everywhere—for pennies!

MIRACLE HEALING FOODS REVEALED

You'll discover this food, and how to use it, on page 107 of an amazing book by Dr. Joseph M. Kadans—a *breakthrough book* that shows how certain common foods—called miracle healing foods by one authority—when used in a special way, can actually strike back at certain illnesses!

You'll find out how certain fruits, nuts, vegetables and seeds are said to:
Relieve painful backache, stiff, aching muscles and joints!

Ward off influenza, asthma, bronchitis, infections; protect you from colds, coughs, and respiratory ailments!

Relieve gas, ulcers, colitis; helps restore regularity!

Help heal stomach and liver disorders; help relieve kidney, bladder, and gall bladder problems; strengthen the heart!

Relieve such problems as baldness, boils, dandruff, eczema, pimples, and more!

Help relieve headaches, high blood pressure; help improve circulation; relieve hemorrhoids; wash away fatigue!

Help melt away extra pounds—and much more!

120-YEAR-OLD MAN CLAIMS: SIGHT AND HEARING RESTORED!

On page 132 of Dr. Kadans' book, you'll discover a certain vegetable oil that's as close to being an all-purpose "miracle" remedy as you can imagine! According to one of the many researchers I quote from sources other than this book . . .

This vegetable oil was used for EIGHT DECADES by a man who—at 40—suffered from illness that impaired his vision and hearing. He says, "My eyes were very painful . . . a film gathered over them. My hearing . . . quite dull and growing worse." Then he heard about this oil.

Immediately he applied it to his eyes and eyelids. The improvement was so pronounced that: "I used the oil freely about the ears externally, and put drops of oil into the ears . . . In a very short time my sight and hearing were entirely restored!"

OVERCOMES STIFFNESS IN SPINE, HIPS, SHOULDERS, AND KNEES! When he was in his sixties, this man's knees refused to bend and his backbone was so stiff that he cried out in pain. He now applied the same oil with a vigorous rub to his spine, hips, shoulders, knees, elbows, and other stiff areas. Apparently it worked so well that by age 108 he was riding a bicycle, dancing, and walking 20 miles a day!

THE VEGETABLE OIL THAT RELIEVED GALL BLADDER TROUBLES!

According to Dr. Kadans, on page 132 of his book, this oil stimulates contractions of the gall bladder and is valuable for many gall-bladder ailments.

In the October-December, 1962 issue of *Minerva Dietologica*, another doctor also reports that this oil is a valuable preventive against gallstones, greatly favoring complete emptying of the gall bladder. These findings were confirmed by an International News Service release. And back in 1893, a doctor reported that a gallstone lost 68% of its weight in two days when immersed in this pure vegetable oil.

ULCERS HEALED! In a medical-health publication, a doctor reports that he treats his ulcer patients with this same oil. After this treatment, a

"And God said, Behold, I have given you every herb bearing seed, which is upon the face of the earth, and every tree, in which is the fruit of a tree yielding seed; to you it shall be for meat." (Genesis 1:29)

friend is now able to eat the hottest Mexican spices!

BURSITIS HEALED! A woman suffering from painful bursitis in the shoulder decided to try this oil. Before long, she was able to raise her arm above her head, and has had no further attacks of bursitis since!

HELP FOR HEART AND ARTERIES!

Results of a scientific study, says another expert, indicate that this oil may be an important factor in the very low rate of heart and artery disease among middle-aged men in Greece! Out of ONE THOUSAND TWO HUNDRED FIFTEEN men examined, only four cases of heart or artery disease were found in six years! This oil is an important part of the Grecian diet. According to studies made in France, it seems to reduce cholesterol by as much as 26%.

LIVER PROBLEMS HEALED! On page 100, Dr. Kadans tells you how to use a certain common green plant, recommended for cleansing the liver and spleen. Says another authority: "Hepatitis, or inflammation of the liver, and jaundice, when uncomplicated, readily yield to it." Around 75 years ago, one doctor claimed that the root of this vegetable relieved liver trouble that had afflicted him for 15 years!

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Running down the list, we find:
A common fruit, which Dr. Kadans shows you how to use on page 136, that—according to one researcher—helps protect against *indigestion . . . gas . . . heartburn . . . sour stomach*. Modern research shows that this fruit contains a powerful enzyme that cleanses the system! One doctor tells how he treated *painful hemorrhoids* with this enzyme, and in three days a 52-year-old woman's improvement was regarded complete; she needed no surgery! With another user, gas pains disappeared like magic!

A common nut, page 175, which Dr. Kadans reports is good for constipation, having a definite laxative effect.

KIDNEY AND BLADDER RELIEF

On page 136, Dr. Kadans shows how a common, pleasant-tasting vegetable, often used merely as food decoration, may be used for a wide variety of illnesses but more particularly for dissolving gravel, bladder, and kidney stones.

PROSTATE AND DIABETES

One popular English authority reports some spectacular uses of this same common vegetable. A gentleman in his sixties was unable to pass water. He was suffering from prostate trouble—but because he had diabetes, they couldn't operate. Advised to try a tea made of this same



ABOUT THE AUTHOR

JOSEPH M. KADANS, Ph.D., has devoted his life to studying the use of natural food medicines. He has done extensive research on their amazing qualities and has shared his findings with thousands in his writings and lectures. Recognizing his genius, the U.S. Government assigned young Kadans, at the age of 20, to edit a health and safety magazine that reached 50,000 employees. He is an alumnus of 10 colleges and universities, and has served on four university faculties. Dr. Kadans is the founder and president of Bernadean University, and is the author of "Modern Encyclopedia of Herbs."

vegetable, he reported he soon could urinate freely and it was found that all traces of sugar had vanished from his urine!

RHEUMATISM AND ARTHRITIS

This same English authority refers to an elderly man who could barely hobble with the aid of two canes. When he drank the vegetable tea, he became well enough to discard the canes! This same humble plant has been hailed as a miracle healer because of its ability to relax stiff fingers and gnarled joints, according to another writer. He tells how a dressmaker's fingers became stiff and unmanageable. Medication was of no avail. But after drinking the vegetable tea daily, her fingers became youthfully nimble again!

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Bache Chapel

(continued from page 11)

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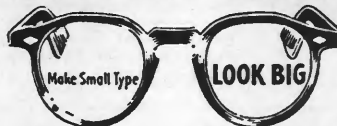
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