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April 1979

Illinois Rural Electric News

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Illinois Rural Electric News

A regulatory mess

In February, during the annual meeting of the National Rural Electric Cooperative Association, thousands of participants signed a letter addressed to President Carter asking for relief from the many rules and regulations which needlessly are driving up consumers' electric rates.

Expressing concerns of electric cooperative consumer-members, directors and managers, the letter called on President Carter to stem the flow of bureaucratic red tape which accounts for billions of dollars in extra costs to consumers each year.

The letter certainly isn't the first appeal by electric cooperatives for government to come to grips with the serious problem it has created by the regulatory process. They have long sought to call attention to increasing, excessive regulation. And, there are others who are being heard as they warn of what is happening.

United States Rep. Robert H. Michel of Peoria submitted to his fellow House members a copy of a speech by Richard Elkin, a member of the North Dakota Public Service Commission and President of the National Association of Regulatory Commissioners.

In the speech Elkin spent little time in getting to the point. He asks how many people are aware of the fact that about 30 percent of consumers' electric bills are caused by legislation. "What kind of regulation?" Rep. Michel asked of his colleagues. "Primarily environmental and other forms of regulatory legislation, created by Congress or the State legislatures, implemented by rule-happy bureaucrats and always costly to the consumer," Rep. Michel answered, as he submitted Elkin's speech for the information of Congress and

inclusion in the Congressional Record.

Add inflation to the cost of regulation and it is not difficult to see the terrible impact they have on consumer costs.

A recent account of the problems of regulations (they affect all segments of our life and economy) by George D. Webster, writing in *Association Management*, relates the plight of a farmer who had entered into a contract with a government agency for insurance on his wheat crop, only to have the U.S. Supreme Court rule that he could not recover a loss to his crop because a regulation, unknown to both the insured and the agency representative—but nonetheless published in the *Federal Register*—precluded such insurance. (Publication of a regulation in the *Federal Register* constitutes constructive notice to all those who may be affected, Webster points out. Those familiar with the *Federal Register* know the task it is to keep abreast of regulatory change.)

While the Supreme Court did not agree with the farmer, one dissenting Justice captured the essence of the situation and made it clear in his opinion:

"To my mind it is an absurdity to hold that every farmer who insures his crops knows what the *Federal Register* contains or even knows that there is such a publication. If he were to peruse this voluminous and dull publication as it is issued from time to time in order to make sure whether anything has been promulgated that affects his rights, he would never need crop insurance, for he would never get time to plant any crops."

It is time the flood of expensive, time-consuming, misdirected, unnecessary and sometimes concealed regulations is reduced to a flow of only those really necessary to meet the needs of the people.

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Cover: These boaters may be wearing jackets, but the green of the budding leaves indicates Spring has come to Illinois.

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energy efficiency

Poorly installed insulation can be a costly investment

If residential installations of insulation materials are properly performed, they will make significant contributions toward a more comfortable home and will probably save you money. However, improperly installed insulation can prove to be a costly expenditure.

All insulation materials have certain guidelines or installation practices which should be met at the time of installation. These guidelines are not always followed at the time of installation. Some are overlooked, others are simply disregarded because of the degree of difficulty involved with particular applications.

Regardless of whether you intend to do the work yourself or hire the work done, you should be aware of what will be done and how it will be installed. Of all the areas in the home which will be and can be insulated, the attic and sidewall areas will cause the most problems.

Although insulating an attic would seem to be a simple task, there are a number of decisions to be considered. These include: type of insulation to be installed, insulation mix if a combination of material is to be used, attaining adequate ventilation, vapor barriers and how much material should be added.

Probably the most important of your considerations is that of proper attic ventilation. The greater the temperature differential becomes between the insulating material and the roof surface, the greater the possibility of a moisture problem developing. Without proper attic ventilation, the homeowner may, in time, face rotting rafters and roofing sheathing and water deterioration of insulation and ceiling materials.

To determine if you have adequate ventilation, check your attic in the dead of winter. Some frost, especially



WHAT TYPE OF MATERIALS DO YOU RECOMMEND?

on nail heads, will always be there, but if you have large areas of heavy frost you probably are not properly vented. If you do find excessive amounts of moisture, then a change is necessary. Perhaps simply freeing blocked vents will solve the problem or power vents may need to be installed. In any case, if you have a problem, check with your electric cooperative power use advisor. He may have suggestions on how to solve your problem.

Insulation in sidewalls is much more difficult to judge in terms of quality of installation because the results cannot be seen. It could be months before you know whether you have received a quality installation.

Your concerns with sidewall applications should be to prevent

settling, avoid shrinkage, make sure the entire cavities are filled, be sure that areas around windows and electrical outlets are sealed and that other trouble spots are well insulated.

Here are a number of suggestions which will help to improve the quality of your sidewall application:

- When you reach the decision to insulate, take an inventory of your home. Note especially hard-to-heat areas and drafty spots near windows and electrical outlets. These should be pointed out to a contractor or installer at the time of installation.
- All sidewall applications require some type of equipment. Be sure the salesman or contractor is familiar with various machine settings. Also check with applicator at time of installation to be sure he understands this equipment.
- Get an estimated amount of the material to be used on your job from either the salesman or the contractor prior to your installation. Use this figure to check the actual amount of material that was used on your job at completion of installation.
- Be on hand to observe the installation and request various checkpoints during application. These checkpoints could either be picked at random or they could be areas that you have previously determined to be trouble spots.
- If the installation is to be contracted, be sure that you have some type of "windy day guarantee." This is to ensure you that at a later date your contractor would be willing to come back to try to plug up these drafty areas.

While there is no way to guarantee that following these guidelines will produce a trouble-free insulation application, they should help improve the quality of the overall installation, and save you energy and money.

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Near right: Robert Wagner of Burnside, center, was honored for his years of service as a director of the National Rural Utilities Cooperative Finance Corporation and as a leader in the development and progress of the electric cooperative program. Presenting Wagner with a resolution from the Association of Illinois Electric Cooperatives is Thomas H. Moore, Executive Vice President of the AIEC. Mrs. Wagner looks on. Far right: Stanley Greathouse of Johnsonville, Illinois NRECA Director, right, greets Secretary of Agriculture Bob Bergland following Bergland's speech to the delegation. In the center is Jim Holloway of Sparta, Manager of Egyptian Electric Cooperative, and in the background is Egyptian Director A. C. Hayer, also of Sparta.



Speakers agree regulation

Excessive regulation is a major problem contributing to higher and higher consumer electric costs, speakers agreed during the 37th annual meeting of the National Rural Electric Cooperative Association (NRECA) in Houston during February.

"A few years ago someone wrote that 'the path to civilization is paved with tin cans.' Today, it would be more accurate to say it's paved with environmental impact statements," Robert D. Partridge, Executive Vice President and General Manager of NRECA, said during his speech to representatives of the more than 1,000 electric cooperatives. While environmental impact statements were measured by the number of pages in the past, it would be easier now to measure them by the pound, or even the ton, he said. Continuing on that theme, Partridge added, "Frankly, I am worried about the years ahead. I am concerned, as I know you are, about where the energy is coming from to fuel the economy, provide jobs and the food and fiber we must

have, and to protect the health and welfare of the American people in the '80's, '90's and beyond. "Back in 1973," he continued, "we imported a little over 35 percent of our daily needs. Last year that figure was 43 percent, about eight million barrels a day. Energy independence as a national goal is becoming more

"Energy independence as a national goal is becoming more important every day."

important every day. At a time when industry and government projections show we need to add nearly 300,000 megawatts of electric generating capacity in the next 10 years, multiple licensing and permit procedures have lengthened the time it takes to build coal-fired or nuclear plants. The breeder reactor and the enormous

potential it offers for energy abundance and conservation of fuel resources in the next 50 years has been all but shelved. Instead, we as a nation yawn at the mention of an energy crisis and burn incense to the snail darter and the furbish lousewort. We're told the 'soft path' is the course to follow and that we not only can get along with wood, wind, and sun, but that we should. But I do not believe that we can turn our back on high technology and maintain our standard of living—much less lead the free world." While refusing to believe that soft path technology will solve all our energy needs, Partridge noted that they should be used for all they're worth and kept in perspective as part of a varied energy mix. He called for national energy policies that would provide for the orderly development of coal, nuclear and other fuel sources to provide the jobs and economic opportunities a growing population must have.

Several thousand of the estimated 11,000 persons attending the
ILLINOIS RURAL ELECTRIC NEWS



major cost problem

convention signed a petition addressed to President Carter urging an easing of the regulatory burden faced by the utility industry.

Secretary of Agriculture Bob Bergland stressed that conservation is needed to cope with the twin problems of inflation and energy shortages. "We have become increasingly dependent on imported fuel—which is dangerous considering the state of world affairs. It's also dangerous," Bergland went on, "because it fires unnecessary inflation. It creates a grave imbalance of trade with subsequent weakening of the dollar which in turn feeds more inflationary pressure. This directly weakens our world competitive position." Bergland suggested the use of conservation measures, pointing out that true conservation is not negative action, but positive and constructive. He suggested, for example, that constructive uses be found for the waste heat that now escapes from power plants. "Why not harness that excess heat for constructive purposes?"

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Agriculture and agribusiness are crying for new and cheap energy sources for processing, drying, and turning raw farm commodities into finished products. Why not municipal heating plants for our rural communities?" he asked.

REA Administrator Robert W. Feragen told the audience that the success of the rural electrification program depends upon the leadership of local rural electric systems following fundamental cooperative principles and concepts of service which typified the program's early beginnings. "The rural electric program continues to be popular and merit public support because the Congress, and the program's supporters, have long praised the program's orientation to local people, the elective process in the selection of directors from the community and the objective of serving all those rural areas where you live," Feragen said.

NRECA President Gene Porter, a Kansas farmer, warned against the "no-growth" mentality, and urged the

rural electrification leaders at the convention to take the initiative in warning the people of America of the economic consequences of such a policy. "We need to make it unmistakably clear to our officials in Washington and in our state capitals that we think all this no-growth bunkum is just so much nonsense," Porter urged. Having just returned from Indonesia and the Philippines, where NRECA is providing technical assistance to rural electrification efforts, Porter noted that "no-growth" is not a matter of concern there. "People there have no doubt about the direction in which they are headed, and neither should we. It's time for us to refocus our thoughts and efforts on the positive aspects of life. We need to begin once again to concentrate our effort on what we can do with the resources we have, to make our lives and our world a little bit better. We've got to shake loose the fear and timidity that have allowed those who would tell us what we can't do, to call the tune," Porter said.

During activities of the National Rural Utilities Cooperative Finance Corporation in Houston, Allen D. Beadles of Wisconsin was elected over Jack D. Ludwig of Illinois to succeed Robert R. Wagner of Burnside as the director-director representing District 5 on the CFC Board of Directors. Ludwig, of Fithian, is a director of Eastern Illinois Power Cooperative. In addition to recognition given outgoing Director Wagner during the CFC Annual Meeting, he was also honored

"It's time for us to refocus our thoughts and efforts on the positive aspects of life."

during the 10th Annual Illinois "Get-Together" Breakfast by his fellow Illinoisans and was presented a resolution adopted by the AIEC Board of Directors expressing appreciation for his contributions to CFC and the various segments of the rural electrification program in Illinois and across the nation.

Western Illinois Power Cooperative (WIPCO) officials are studying a number of power supply alternatives to determine which method will meet the electric power requirements of its seven member electric distribution cooperatives at the lowest cost.

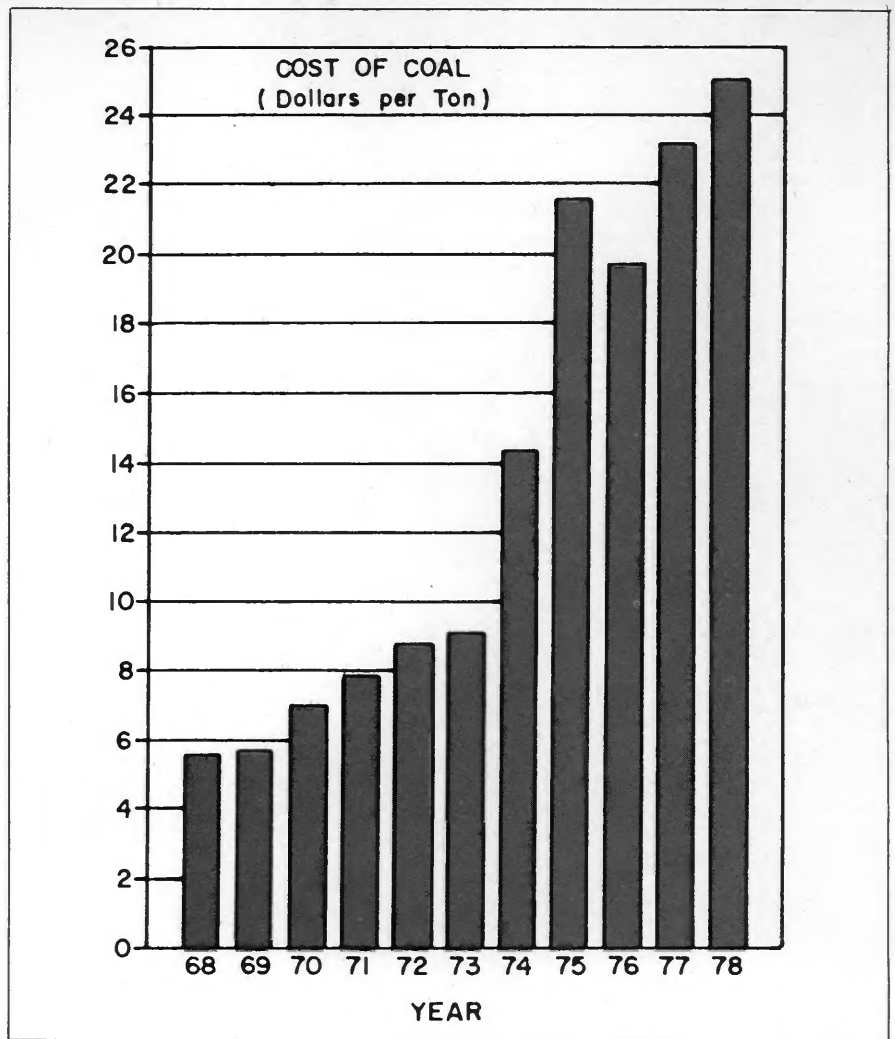
An outline of the various alternatives dealing with power supply and power transmission was presented to representatives of the member-cooperatives during WIPCO's 19th annual meeting Wednesday, March 14, in Jacksonville.

WIPCO General Manager Donald B. Bringman of Jacksonville said the power supply alternatives developed during the study include a variety of possible electric generation capacity additions to meet growing electric power needs of the member-cooperatives into the 1990's.

The seven electric distribution cooperatives which make up WIPCO are: Adams Electrical Co-Operative, Camp Point; Illinois Rural Electric Co., Winchester; M.J.M. Electric Cooperative, Carlinville; Menard Electric Cooperative, Petersburg; Rural Electric Convenience Cooperative, Auburn, Spoon River Electric Co-operative, Canton, and Western Illinois Electrical Coop., Carthage.

The present studies of WIPCO's alternatives incorporate not only methods of providing sufficient electric power, but also the expected costs of such alternatives as they relate to the expense of electric power delivered to the member-cooperatives. The main element of the several alternatives is WIPCO's 9.5 percent share of generation from the nuclear Clinton Power Station. Bringman described the finalization of the joint Clinton ownership agreement with Illinois Power Company as "one of the most significant accomplishments" for WIPCO in 1978. When the plant is operating commercially in early 1983, WIPCO and its membership will gain about 90 megawatts of generating capacity.

Other elements of the studies include several possibilities: joint ownership of the planned second unit at Clinton, a coal-fired plant at the Pearl River site where WIPCO



Key is Clinton station partnership

WIPCO studying power supply

presently operates a 22-mw station, joint participation with an unspecified partner in a coal-fired station and addition of gas turbines for peaking power requirements.

The report of President Lester W. Aeilts of Carthage focused on difficulties of 1978, including the long coal strike and a boiler explosion at the Pearl generating station. He said the two problems contributed to high power costs, adding, "We lived through it, however, and power costs are near normal.

"We have had some historic moments since we last met. We now have an interconnection with Illinois Power Company, which gives us opportunities to purchase some lower cost power at times. The outstanding event was the Clinton power plant

purchase. As you well know, this culminated three long years of negotiations."

The report of Secretary-Treasurer Virgil T. Parks of Milton reflected the difficulties caused by the explosion at the power plant and the subsequent loss of self-generation. The plant, shut down four months for repairs, provided in 1978 only 80 percent of the energy that it had in 1977. To meet members' increased requirements, purchase of electric power from other suppliers was necessary, accounting for a sharp increase in purchased power costs.

Illustrating the impact of purchased power costs (72 percent of the cooperative's expenses) is the increase in the average cost of power purchased by WIPCO from its suppliers. From



Reports of General Manager Donald Bringman, top, and President Lester Aeilts brought directors up to date on the past year's activities of WIPCO. The graph at the left shows the sharp increase in cost for coal used by WIPCO.

Alternatives

1968 to 1978, the costs climbed almost four hundred percent.

Fourteen representatives of the seven member-cooperatives were reelected to one-year terms on the board. Chosen were: Aeilts, Parks, Gene H. Burton of Browning, Robert E. Gant of Winchester, Roy D. Goode of Virden, Wayne Harms of Carlinville, Kenneth Marlow of Huntsville, William F. McCamey of Canton, Charles R. Melvin of Carthage, Loren A. Rhea of Waverly, John E. Root of Petersburg, Dean L. Searls of Camp Point, Charles W. Witt of Carlinville and Robert F. Zook of Athens.

Officers of the board were reelected, including: Aeilts, president; Marlow, vice president; Parks, secretary-treasurer; and McCamey, assistant secretary-treasurer.

APRIL 1979

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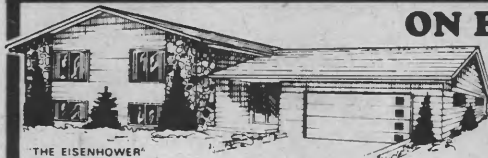
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State Senator John Knuppel, right, was among the featured speakers during the ninth annual Agriculture Legislative Breakfast in March. Illinois Agriculture Director John Block, left, also spoke, and Sid Hutchcraft, center, of the Illinois Pork Producers Association was master of ceremonies.

Agriculture Legislative Breakfast

'Stay united commodity and

Illinois' agriculture community was urged to "stay united to feed a hungry world," by State Senator John L. Knuppel of Virginia during the ninth annual Illinois Agriculture Legislative Breakfast during March in Springfield.

Knuppel, Chairman of the Senate

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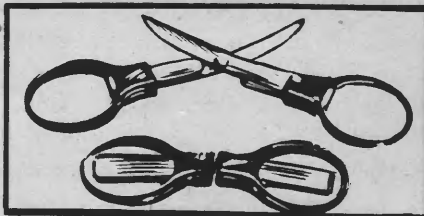
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Legislator urges industry groups

Agriculture, Conservation and Energy Committee, added that agriculture had "not suffered at the hands of the Illinois General Assembly, nor will you suffer." On farm problems, Knuppel said they "rest in Washington," and emphasized the importance of looking toward Washington for help with problems facing agriculture.

Representative Gale Schisler of London Mills, Chairman of the House Agriculture Committee, said the Illinois General Assembly was in Springfield to do the people's business. He added that he considered the House Agriculture Committee to be the most important in the General Assembly and urged agriculture groups to come forward with their ideas.

Illinois Agriculture Director John Block, the main speaker at the breakfast, called on the Legislature to help get agriculture's story across to the general population.

"We have plenty to be proud of. Look at ever-increasing productivity of the American farmer, who now feeds 56 of his fellow men across the state, the nation and the world," Block told the more than 600 attending.

Sid Hutchcraft, Executive Vice President of the Illinois Pork Producers Association and master of ceremonies, termed the breakfast "an opportunity for those of us in agriculture to better know the people who represent us and to help them understand the workings of Illinois largest industry."

Thirty-nine state agriculture commodity and industry groups, including the Association of Illinois Electric Cooperatives, sponsored the breakfast.

APRIL 1979

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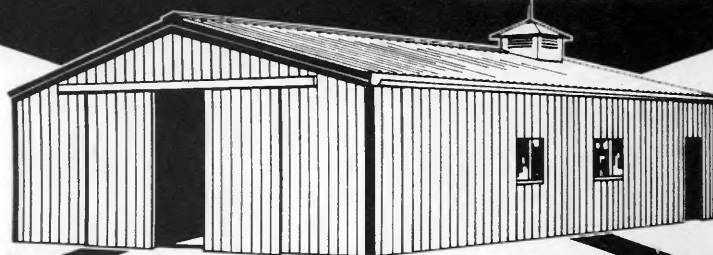
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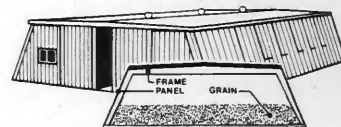


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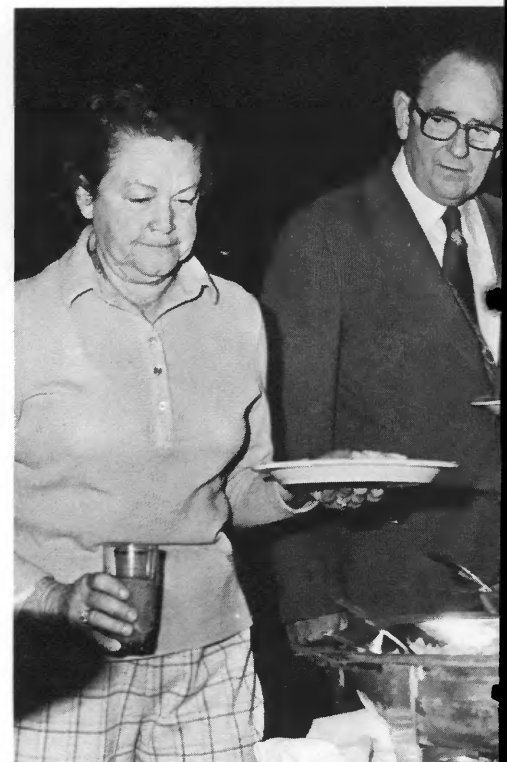
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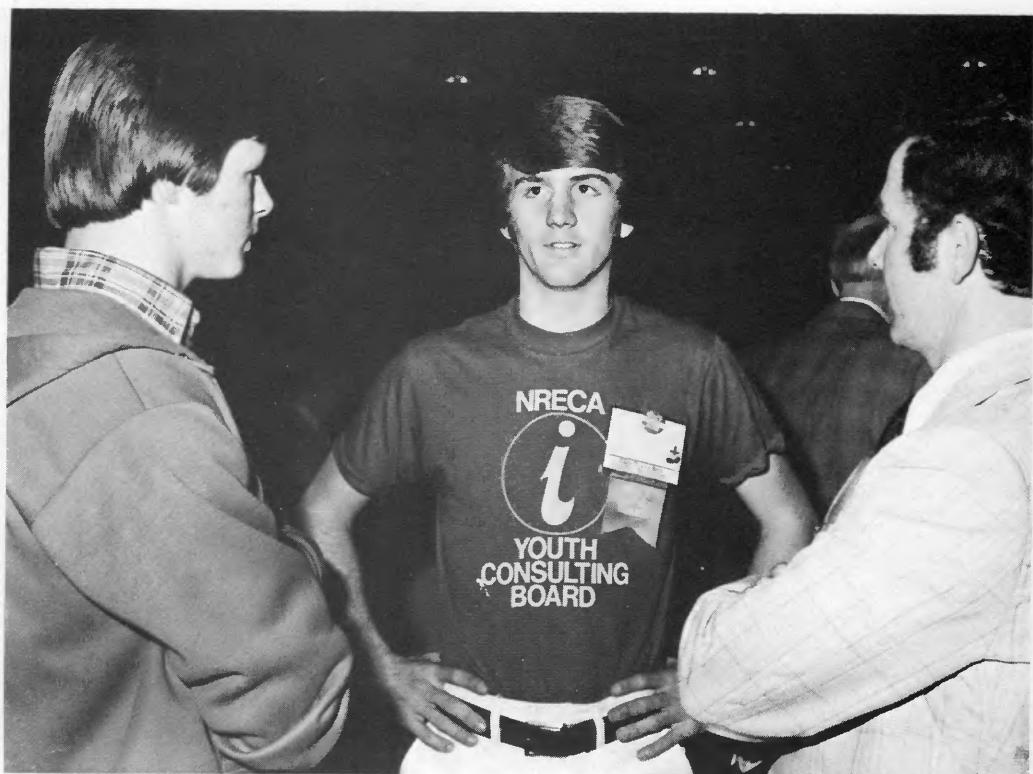
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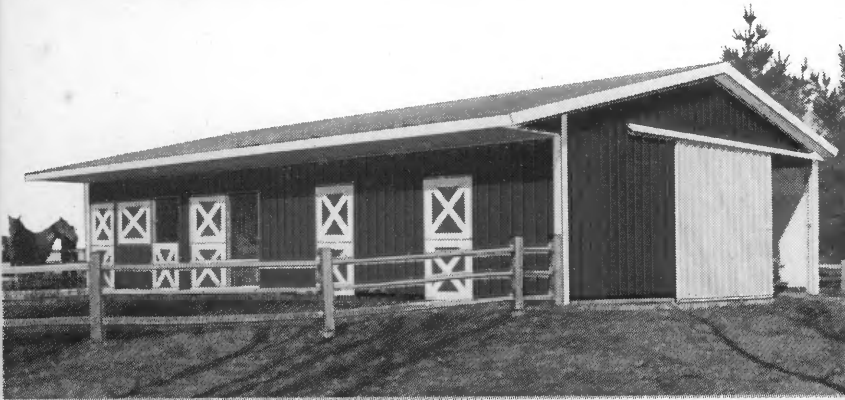
Illinoisans take active part in **NRECA** Annual Meeting activities



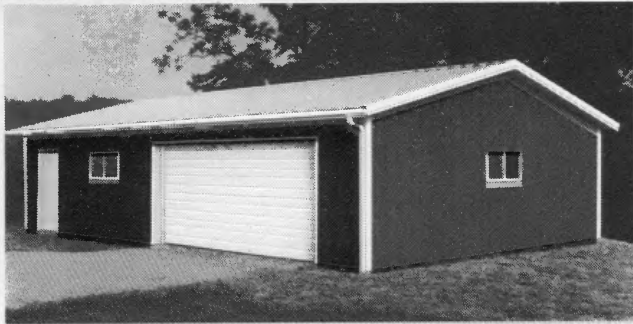
The National Rural Electric Cooperative Association annual meeting in Houston was largely a business meeting, and Illinois delegates were as heavily involved as any others. In the photo at left, Maurice Johnson, manager of Edgar Electric Co-operative Association, chats with James Beatty, president of the Illini Electric Cooperative. Below left, Mr. and Mrs. Jack Compton at the annual Illinois Breakfast. Compton is manager of Southwestern Electric Cooperative. Below, NRECA President Robert W. Partridge, in the foreground, and Mrs. and Mrs. Stanley Greathouse, go through the breakfast line. Greathouse is a member of the board of directors of Wayne-White Counties Electric Cooperative and is also the Illinois director of the NRECA Board. At lower right, Randy Rings, center, Illinois' delegate and president of the NRECA Youth Consulting Board, talks with Jack Ludwig, right, and another member of the youth organization. Ludwig is a member of the board of Eastern Illinois Power Cooperative. At right, Edgar director Joe Welsh registers at the National Rural Utilities Cooperative Finance Corporation (CFC) table.



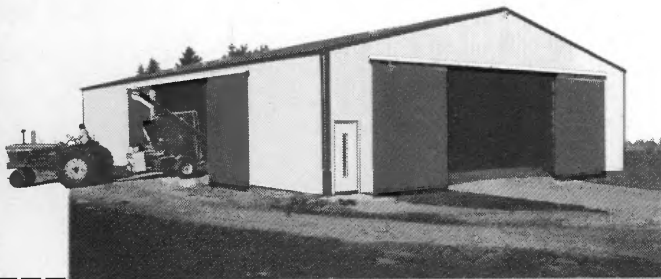
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Energy Expo explores cost-cutting alternatives

Common-sense ways to save energy dollars was the theme of Energy Expo in March at Sangamon State University in Springfield, and some 800 persons took advantage of the opportunity to learn about some two

dozen ways to cut costs.

The conference spanned nearly every energy-saving method from burning wood for heat to wearing warmer clothing. Agricultural energy-saving techniques were emphasized, too.

Classes were conducted to show how to save money in the home by weather stripping, insulation, wood-burning stoves and fireplaces, air conditioning, small appliances, and landscaping for shade and windbreaks.

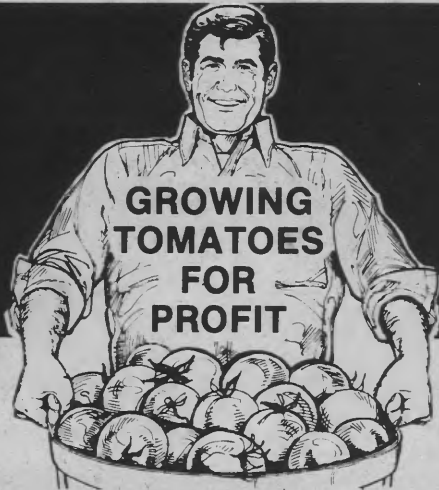
Jim Schmidt, Extension Horticultural Advisor-Residential Energy Coordinator in Sangamon County, noted that the Expo followed a similar program offered two years ago in housing, and was designed to bring to the forefront new developments in energy usage and conservation.

"Part of the reason for the emphasis on energy was to bring it to the forefront," Schmidt said, "and to enable people to hear from industry, government and private citizens who have experiences to contribute."

One of the more popular classes, Schmidt said, dealt with wood-burning stoves and fireplaces, and another, which covered caves, "lo-cal" and alternate homes, drew standing-room-only crowds during some sessions. Henry Spies, assistant professor and editor of the Small Homes Council of the University of Illinois, pointed out that underground homes, which may be very energy-efficient because of more constant underground temperatures, may give problems because of moisture leakage.

Randall Beasley, Director of Member Services for Coles-Moultrie Electric Cooperative and a solar energy enthusiast, told of his experiences with a series of simple solar collectors placed along the south wall of his home.

Energy Expo was presented by Region 6 of the Cooperative Extension Service of the University of Illinois at Urbana-Champaign.



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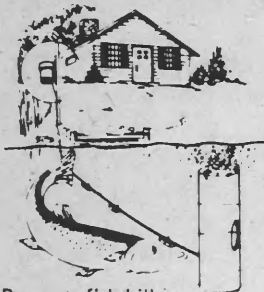
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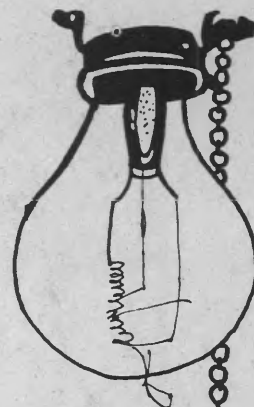
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Strong attendance marks farm show

An estimated 2,500-3,000 Illinoisans made it a point to take in some 55 exhibits at the 18th Annual Southern Illinois Farm Materials Handling Show March 6-8 in Nashville.

"It was one of the better attendances we've had," says Willard Wiggers, Director of Member Services for Monroe County Electric Co-Operative and this year's exhibits chairman for the show.

The show was started in 1960 to enable farmers to see new ways of easing, or speeding up, the work they needed to do around their farms. At the same time, equipment manufacturers and distributors could display their latest products to prospective buyers.

A newly wired and insulated building was one of the features of the show this year. "We moved some of our displays into the new building last year," Wiggers says, "to make up for the fact that we had lost some of the space we had used before. The new building has a low ceiling, though, and is more suited to displays that aren't very tall.

"The members of the Farm Materials Handling Show committee wired the building not too long ago," he continues, "and the Washington County Fair insulated it."

Wiggers notes that the new building proved to be a success this year, with the improvements.

"We had a wood stove exhibit over there," he relates, "and it was putting out a lot of heat. It was nice and warm with the new insulation."

The wood stove display was but a part of a recent trend at the show—the expanding use of equipment designed to conserve energy or to take advantage of alternative energy sources.

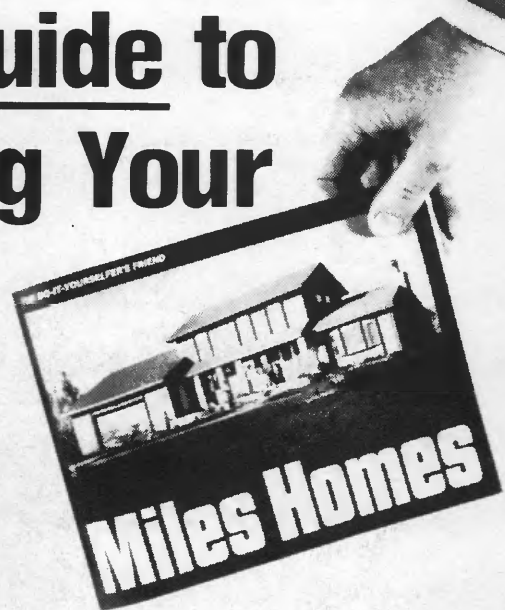
"We're not actually out to change the character of the show," Wiggers emphasizes, "and the primary thrust is still toward material handling equipment. We like to think that all the exhibits blend in to make a nice show, with a little something for everyone."

After the disastrous Easter ice storm last year and several weather-related outages in various parts of the state this year, Wiggers notes, standby generation equipment of all kinds is receiving heavy play.

People who come to the show apparently are serious about wanting equipment, Wiggers says. "As exhibits chairman, I talked to a lot of the exhibitors, and many of them tell me that this show generates a lot of sales for them—more than some of the bigger shows, even."

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Two Monroe County farms, both operated by member-owners of Monroe County Electric Co-Operative, were the sites of tours during a special Ag Day program of the Gateway (St. Louis) Chapter of the National Agri-Marketing Association (NAMA). NAMA, an organization of businesses which supply goods and services to the farm market, is the national sponsor of Ag Day. The Monroe County tour was but one of many activities conducted across the country to promote agriculture and create increased interest and understanding of agriculture among non-farm consumers.

Hosts for the two stops on the tour were Robert W. Rippelmeyer of Valmeyer and Ron and Joy Schewe of Waterloo. Rippelmeyer, who is

Ag Day observance

Rippelmeyer, Schewe farms toured



President of the Monroe County Electric Co-Operative Board, and his brother Ray operate a hog and grain farm on which they produce about 3,500 hogs annually, as well as soybeans, corn and wheat near the Mississippi River south of St. Louis. The Schewes milk about 80 Holstein cows on the dairy farm and grow grain on about 350 acres. Activities in the milking parlor were of special interest to touring students, one of whom had never been on a farm before.

Participating in the program were representatives of the various agribusinesses and advertising agencies of the St. Louis NAMA chapter, a group of Webster Groves, Missouri, junior high school students, U.S. Rep. Robert A. Young of St. Louis, Illinois State Rep. Ralph Dunn of the 58th District, Ray Lett, Illinois Assistant Agriculture Director, and Joan Adams of Oklahoma, president of the American Agri-Women's Conference.

ILLINOIS RURAL ELECTRIC NEWS




bove: Robert Rippelmeyer welcomes group to his hog and grain farm.
 ow: Ron Schewe explains his ry operation.

The opening activity for the approximately 90 persons on the two-bus visit to the farms was a pork luncheon at St. Mary's Parish Center in Valmeyer. Mrs. Adams spoke to the group, stressing the importance of agriculture in the nation's economy, pointing out problems facing agriculture and offering ideas at how many obstacles can be overcome. Rep. Young told of his long service in the Missouri State Legislature prior to that in Washington and his support of agriculture in many years as a state and federal official. Lett read Illinois Governor James R. Thompson's statement proclaiming the day Ag Day in Illinois.

NAMA sponsors Ag Day through its affiliate, American Agriculture Day Foundation, a nonprofit organization. Ag Day 1979 was coordinated on a regional and local level by the 16 NAMA chapters throughout the country.

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Ham for your Springtime table

HAM WITH RHUBARB & PINEAPPLE

- 1 (5 or 8 lb.) fully cooked canned ham
- 3 cups rhubarb pieces
- 1 (20 oz.) can pineapple chunks
- 1/2 cup sugar
- 3/4 teaspoon vanilla

Slash ham across the top to make a diamond pattern. In roasting pan, combine rhubarb, pineapple, with liquid, sugar and vanilla. Mix well. Spoon fruit mixture to sides of pan. Place ham in pan. Cover top of ham with some of the fruit mixture. Cover pan tightly. Bake at 350 degrees for 1 hour and 30 minutes, basting occasionally. Remove cover; take all fruit mixture off top of the ham. Bake, uncovered, for 10 minutes longer. Serve fruit as a sauce for the ham or pass it separately.

HAM ENROBED WITH GINGER APPLESAUCE

- 1 (5 or 8 lb.) fully cooked canned ham
- 1 1/2 cups applesauce
- 2/3 cup gingersnap cookie crumbs
- 1 teaspoon lemon juice
- 1/4 teaspoon ground cinnamon

Slash ham across top to make a diamond pattern. Set in a deep roasting pan. In mixing bowl, combine the remaining ingredients. Spoon applesauce mixture over the top of the ham. Bake at 350 degrees for 1 hour and 30 to 40 minutes or until meat thermometer reaches 140 degrees, baste occasionally.

GLACE HAM WITH CRYSTALLINE FRUIT

- 1 (5 or 8 lb.) fully cooked canned ham
- 1 cup fruit nectar (peach, pear, apricot)
- 1/2 cup honey
- Juice from two oranges
- 1/2 teaspoon ground allspice

CRYSTALLINE FRUIT

- 2 cups sugar
- 1 cup water
- 2 (15 to 17 oz.) cans of pineapple slices
- 2 oranges
- 1 1/2 cups sugar
- 1 1/2 cups water
- 12 fresh strawberries with stems

Slash ham across top to form a diamond pattern. Place in a roasting pan. Combine fruit nectar, honey and allspice; mix well. Pour half of nectar mixture over top of ham. Bake ham at 350 degrees for 1 hour and 30 to 40 minutes. While ham is baking, combine 2 cups sugar, 1 cup water and liquid from pineapple in a large saucepan. Bring sugar syrup to a boil; add pineapple and cook over medium heat until edges begin to get translucent, about 10 minutes. Grate peel from oranges in long shreds, or use a zester. Combine orange peel with just enough water to cover it in a saucepan; bring to a boil. Strain orange peel; rinse in cold water. Add orange peel to the pineapple and remove from heat; cover and set aside. Squeeze juice from oranges; strain and add to nectar mixture. Baste ham with nectar mixture every 20 minutes. In a small saucepan combine 1 1/2 cups sugar and 1 1/2 cups water. Bring to boiling; cover and boil for 3 minutes. Remove cover and place candy thermometer in syrup. Boil until temperature reaches 280 degrees. Meanwhile, prepare a china plate; sprinkle sugar evenly, 1/4 inch deep, on plate. When syrup reaches 280 degrees, immediately reduce heat as low as possible.

Holding a strawberry by the stem, dip in hot syrup, turning to coat evenly. Set dipped strawberry on pre-prepared sugared plate. Quickly dip remaining berries. To serve, garnish edges of large platter with candied pineapple. Add miniature palm fronds if desired. Set ham in center of plate. Make small "nests" of candied orange peel around ham. Place strawberries on the orange peel. Serve pan juices from the ham as a sauce; thicken with a small amount of cornstarch if desired.

EASY HAM CASSEROLE

- 1 (5 lb.) fully cooked canned ham
- 1 quart home-canned green beans or 2 (15-17 oz.) cans green beans, drained
- 6 med. potatoes, peeled
- 1 1/2 cups brewed, black coffee
- 1/3 cup water
- 1 (1/2 oz.) pkg. green onion dip mix
- 2 tablespoons corn syrup, optional

Place ham in a deep roasting pan. Surround ham with beans and potatoes. Mix together coffee, water and dip mix; pour over ham and vegetables. Cover pan. Bake at 350 degrees, for 1 hour and 30 minutes. Remove vegetables; place in serving dish and keep warm. Increase oven temperature to 425 degrees. Brush top of ham with corn syrup. Return ham to oven for 5 minutes.

BROCCOLI CASSEROLE

- 2 pkgs. frozen broccoli
- 1 can cream of chicken soup
- 1/2 cup of milk
- 1 cup of uncooked rice
- 1/2 cup of onion, sauteed in 1 stick oleo
- 1 cup of cheddar cheese (grated)
- 2 teaspoons salt
- 1/4 teaspoon black pepper

Cook rice and mix all ingredients, except cheese, together and bake at 300 degrees for 30 minutes. Add cheese to top and bake another 5 minutes.

ANGEL BISCUITS

- 1 cake compressed yeast, or 1 pkg. active dry yeast
- 3 tablespoons lukewarm water (very warm for yeast)
- 5 cups all purpose flour
- 1 teaspoon soda
- 3 teaspoons baking powder
- 2 teaspoons sugar
- 1 1/2 teaspoons salt
- 1 cup vegetable shortening
- 2 cups buttermilk

Dissolve yeast in warm water. Sift all dry ingredients together in bowl. Fold in shortening, add buttermilk, then yeast mixture. Stir until thoroughly moistened, then knead a minute or two (No rising is required). Roll out to desired thickness (suggest 1/2 inch), cut into rounds. Brush with melted butter and bake on ungreased pan at 400 degrees for 12 to 15 minutes. Dough may be refrigerated until ready to use, it keeps well for several days. Baked biscuits freeze beautifully.

MANDARIN ORANGE CAKE

- 1 yellow or white cake mix
- 3 eggs
- 3/4 cup oil
- 1 can mandarin oranges

Mix all together and bake as directed on box. Test for doneness. Makes 3 layers. Cool and use this icing: Mix together 1 large can crushed pineapple, 1 large pkg. instant vanilla pudding mix, and 1 large Cool Whip.

LEMON MERINGUE PIE

- 4 tablespoons flour
- 3 tablespoons cornstarch
- 1 1/2 cups sugar
- 1/4 teaspoon salt
- 2 cups boiling water
- 3 eggs separated
- 1/4 cup lemon juice
- grated rind from one lemon
- 2 tablespoons butter or margarine
- 1 baked pie shell

Combine flour, cornstarch, sugar and salt. Add boiling water and cook until thick, stirring constantly. Reduce heat and cook a few minutes over very low heat. Beat egg yolks slightly. Add some of the hot mixture gradually, and combine two mixtures and cook two minutes longer. Remove from heat, cook slightly and add lemon juice, grated rind and butter. Cool to room temperature. Pour into pie shell and cover with meringue. Bake until brown at 350 degrees—about 15 minutes.

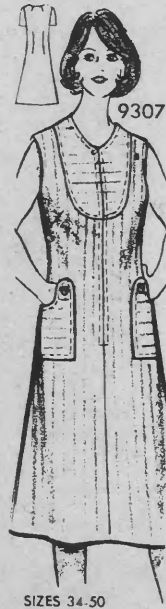
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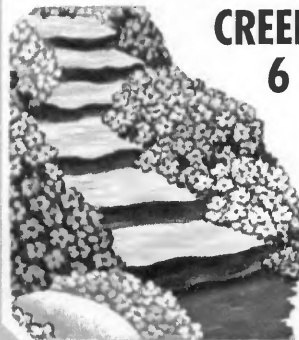
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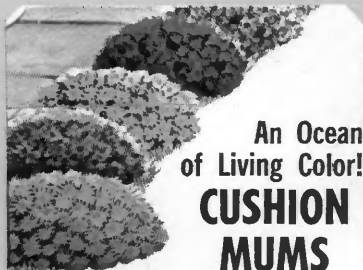
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12	FREE	Oxalis (plus 6 Anemones and 6 Peacock Orchids) if order totals \$12.00	0.00

Remittance enclosed, plus 90¢ towards postage and handling. Ship postpaid. **TOTAL \$**

Bill on my credit card, plus 90¢ postage and handling. Ship postpaid. (Check one). **GRAND TOTAL \$**

Master Charge American Express

BankAmericard (Visa)

Credit Card # _____
 Exp. Date _____
 PRINT NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____

MICHIGAN BULB CO., Dept. CM-144 Grand Rapids, Mich. 49550