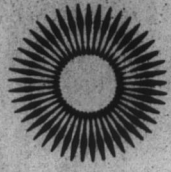


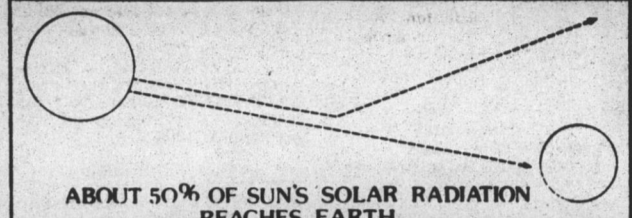
SOLAR FACTS



by Robert E. Lewis

A LOOK AT SOLAR ENERGY

Solar energy is the heat that comes from the sun. This energy is produced at the sun's core, which can be likened to a gigantic thermonuclear furnace. Every second this thermonuclear furnace converts more than 4 million tons of the sun's matter into energy. This energy is then radiated throughout the universe in the form of heat and light.



ABOUT 50% OF SUN'S SOLAR RADIATION REACHES EARTH

Even though the earth's surface captures only one-half of the available solar radiation, the potential of this energy source is astounding. If we could fully utilize all of the sunshine falling on the earth's surface during a single day, the entire world's energy needs could be satisfied for 15 years!

To better use the sunlight that is available to us requires concentrating the sun's rays. Although we often think of sunlight as being intensely bright and hot, the sun does not actually deliver much energy to any single spot at any particular moment. In addition, the amount of solar energy radiated to any one place on earth depends on the time of day, season, latitude and weather conditions.

Solar energy technology, then, is based on developing devices that can concentrate the sun's rays so they can be harnessed for domestic energy use.

In the United States, modern research on ways to use solar energy began during the 1930s. In 1954, scientists formed the Association of Applied Solar Energy to investigate methods of employing the sun's energy for domestic use.

By the 1960s, solar-energy homes were appearing around the country. And in 1974, following the fuel shortages and price escalations caused by the Arab Oil Embargo, Congress called for a vigorous solar energy research program to further develop this promising technology.

Today, the use of solar energy to heat our homes is a part of modern living. More than 40,000 homes around the country currently use solar energy systems to provide substantial portions of their heating needs. Some of these solar heating systems rely on hardware and mechanical equipment to collect and distribute heat (active systems). Others rely only on building's architectural design elements and its orientation toward the sun (passive systems).

By the year 2000, more than 20 million American homes and untold thousands of commercial buildings will be using solar energy systems to meet their energy needs.

In future columns, we will explore the various ways that solar energy is being used in our daily lives. This will include discussions of solar concepts, types of solar energy systems, new solar products and materials, legislative and community programs involving solar energy, and a look at some of the ways to convert a traditional home into a solar home.

In the meantime, you can learn more about harnessing solar energy by sending a stamped, self-addressed envelope to:

Robert E. Lewis, (#1-A) P.O. Box 3680, Grand Central Station, New York, N.Y. 10017

The Carolina Review: Spending Program Is Top Priority

NEW SESSION ... The 1981 edition of the budgetary session of the N. C. General Assembly will convene on January 14 at 12 o'clock noon.

While the primary function of the assembly will be to formulate the spending program for North Carolina over the next two years, past experience indicates that a variety of major issues will come before the lawmakers over the next six months. Already there has been discussion of a "crime agenda" from the governor's office, continued judicial reform, an economic and environmental agenda, reform in governmental contract

letting, and a number of other "important" issues. Those important issues include perennial favorites like ERA, abortion funding, tax reform, and education priorities.

In addition, this year's assembly must address district reapportionment - not only for their own seats - but for Congressional Districts as well. They are also faced with the unkind possibility of raising the state gasoline tax.

The 1981 make-up of the General Assembly will be much like Assemblies of the past if only slightly more conservative both idealistically and fiscally. The Senate, consisting of

50 members (not counting the lieutenant governor who is the presiding officer), will have 12 new members. Six of those members have had previous legislative experience.

The new Senate will be missing some familiar faces when they do get together - three of the most familiar will be veterans Ralph Scott, Jack Childers, and Jim Edwards, who all lost re-election bids.

The House, with 33 new members - six of whom have also had previous legislative experience, will seat 199 representatives on January 14.

The most familiar face missing on that side of the

Legislature will be former two-term Speaker Carl Stewart who ran (and lost) for lieutenant governor instead of another House term from Gaston County.

North Carolina taxpayers can take heart that the two legislative leaders of this year's assembly have the reputation of being extremely tightfisted.

Upcoming House Speaker Liston Ramsey has said his most important task as the Speaker will be to "see that every dollar of the taxpayer's money is spent with judicious care."

Jimmy Green, president of the Senate (as lieutenant governor), has a well-deserved reputation for not wanting to spend state money. While his spending habits have mellowed in recent years (teacher pay raise), he certainly won't be extravagant in today's economy.

Those in leadership positions below Green and Ramsey will most assuredly adopt similar fiscal attitudes - mainly because Green and Ramsey will be appointing those leadership positions.

Observers in the State House expect a major rearrangement of committee chairmanships with the more progressive,

spender at least, Stewart out of power. Ramsey, who has been in the House since 1961, will probably appoint longtime associates to the major "money" committees - Finance and Appropriations.

On the other hand, leadership in the Senate will remain practically as it has been over the past four years. Sen. Craig Lawing will serve a second term as president pro temp and Sen. Kenneth Royal will be the Senate majority leader. Donald Kincaid of Lenoir will probably again be the Senate minority leader.

There is at least some mumbled speculation over one of the major chair-

manships in the Senate. Sen. Marshall Rauch, the able and respected Finance Chairman, but campaign supporter of Green opponent Carl Stewart, might not be re-appointed. Longtime Green supporter and fundraiser, Sen. Conrad Duncan of Stoneville, has expressed a desire for the Finance Committee chairmanship. However, this might be the wrong "season" for Sen. Duncan's profession - he is a highway contractor. Duncan certainly deserves a break from his previous chairmanship, the headache-riddled committee on Wildlife.

Library Receives New Books

The following new books have been received at Shepard-Pruden Memorial Library.

- "The Alpha List", Ted Allberry; "Laughing War", Martyn Burke; "Fault Lines", James Carroll; "Count on the Saint", Leslie Charteris; "The Lords of Discipline", Pat Conroy; "Congo", Michael Crichton; "The American Heiress", Dorothy Eden; "Rip Van Winkle", Sanford Friedman; "In The Suicide Mountains", John Gardner; "Rivergate House", Elissa Grandower; "The Portent", Marilyn Harris; "Aries Rising", Arthur Herzog; "Solomons Seal", Hammond Innes; "Close Relations", Susan Isaacs; "Aztec", Gary Jennings; "The Secret Servant", Gavin Lyall; "The Scorpion", Gordon Pape; "Margaret's Story", Eugenia Price; "Maynard's House", Herman Raucher; "The White Robin", Miss Read; "The Violent Air", Chris Renn; "Gospel

- Fever", Frank Slaughter; "Shadowland", Peter Straub; "Death Lights a Candle", Phoebe Taylor; "Figure Away", Phoebe Taylor; "Unfinished Tales of Numenor and Middle Earth", J.R. Tolkien; "The Player's Boy Is Dead", Leonard Tourney; and "The Collected Stories of Eudora Welty."

Non-Fiction "The Teen Guide To Dating", Elaine Landau; "Everywoman's Health";

- "The Good Housekeeping Illustrated Cookbook"; "Farm Journal's Best Ever Cookies"; "The Power Bright and Shining", Rod McKuen; "Minnie Pearl", Minnie Pearl; and "Walt Whitman - A Life", Justin Kaplan.

Our special thanks go this month to the Edenton Women's Club who gave a generous check to the Library. This will help us to buy a newer, better microfiche viewer. It is much appreciated.

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Leadership Changes Hands

RALEIGH — North Carolina's community and technical colleges have new leadership January 1, when the State Board of Education turned over governance of the nation's third largest community college system to the State Board of Community Colleges.

last September. At that meeting, Carl Horn of Charlotte was elected board chairman.

N. Elton Aydtlett of Elizabeth City is a member of the new State Board of Community Colleges.

In an interview, Horn, who is chief executive officer of Duke Power Co., praised the board of education for its leadership. "On behalf of the citizens of North Carolina," Horn

said, "I would like to thank Dr. David Bruton (SBE chairman), and his board for their generous cooperation and help during the transition."

"They have developed a community college system that is one of the most outstanding in the country and they are handing it over to us in excellent shape."

The State Board of Education has overseen the growth of the community college system from 16 institutions in 1963 to a 58-campus network that last year provided nearly 600,000 persons with skill training and educational programs.

The new State Board of Community Colleges includes top business and industry executives, civic and community leaders and persons with extensive local governing experience in the community college system. The board is expected to be concerned with setting policy for the community college system. Principally they will be looking at program and fiscal accountability and at ensuring that state priorities for vocational and technical training are met.

The trouble with some religions is that their adherents worship words, without knowing the ideals that the words stand for.

Registration Begins

January 4 Private Art Instruction

Classes are arranged according to community interest. Classes will be scheduled for adults in any medium or series of media, if there are 4 or more requests in an area of interest.

Private lessons for children beginning at age 5 are available after school.

New students are being taken in all age groups for new or existing classes.

For information or registration call:

Mrs. Carol Sick
482-2341

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MINI COLLAGE FAMILY PICTURE FRAME \$1.44	SWINGWAY WALL TYPE MAGNETIC CAN OPENER Model 309W COMPARE AT 6.99 \$3.44	CHARMIN TOILET TISSUE 4 ROLL PACK WHITE YELLOW BLUE \$1.19	RELIANCE FINE LINE ACRYLIC MARKERS 10-PACK 67¢	HANKSCRAFT COOL VAPOR HUMIDIFIER MODEL 3972 COMPARE AT 19.95 \$11.44	HANKSCRAFT STEAM VAPORIZER MODEL 5562 1-Gal. capacity, provides up to 10 hours of operation. COMPARE AT 11.95 \$6.88	VIDAL SASSOON FINISHING RINSE 12-OZ. RECONSTRUCTING CREME 4-OZ. SHAMPOO 12-OZ. \$2.67 EACH	Theragran-M America's #1 brand high potency vitamins 100 PLUS 30 FREE \$5.99	FLINTSTONE VITAMINS Regular Vitamins 100 Vitamin Plus Extra C 100 \$2.17 \$2.44 \$2.67	EVEREADY ALKALINE ENERGIZER BATTERIES SIZE C 2-PACK \$1.39 YOUR CHOICE PER PACK	SLIM-ONE APPETITE SUPPRESSANT 30 CAPSULES \$3.88	ScotchTape dura flame II FIRELOGS 1/2" x 1100" TWO ROLL PACK 2200 INCHES OF TAPE 99¢ \$1.17 EACH

PRICES IN THIS AD EFFECTIVE THURSDAY, JANUARY 1, 1981 THRU SATURDAY, JANUARY 10

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