### **Education**, Recreation **Opportunities Abound**

Education and recreation don't necessarily have to take a big chunk out of your family's budget.

Educational opportunities abound; many are free or at low cost. Public programs or short courses and documentaries and educational TV programs are available to everyone, say extension specialists at North Carolina State University.

Educational expenses can be reduced by using library facilities whenever possible, attending public rather than private schools and attending in-state rather than out-of-state colleges.

Library facilities can also be used to find information on colleges and universities rather than purchasing handbooks on the schools.

By saving in advance, a minimum of credit will be needed to finance a college education. If credit is needed, seek low-interest loans. Take advantage of available scholarships and student-work opportunities. The college's financial aid officer can supply information on these.

Educational skills can also be upgraded or improved through on-the-job training or courses Avoid dealing with unknown

Benefits from recreation can also be extended. Get away from regular work or routine tasks and invest your money in the most meaningful activities.

Take advantage of mini-trips or one-day trips to points of interest or combine parttime jobs with travel in an area. The job will help finance the travel. Save money in advance for

expensive recreational activities such as travel or personal improvement and avoid excessive credit charges.

Seek wise buys in recreational equipment and give it proper care for long service. Rent recreational equipment used only occasionally rather than buying it.

Take advantage of recreational activities and facilities in your community. Many are free or low-cost because you have already paid for them through your tax dollars.

Make vour own extra pancakes and waffles and freeze on a cookie sheet covered with paper towels. When frozen, stack and store in plastic bags. To reheat, just pop offered by accredited colleges. in the toaster.



VELVETY TREE ANT manages a lopsided grin for a scanning electron microscope. Powerful new instruments, electron microscopes enlarge images with electrons instead of light rays. Research photographer and artist David Scharf who took the pic-

ture has perfected methods enabling him to examine live insects with the microscope. By lowering the energy of the electron beam and adjusting the system for maximum sensitivity, he is able to produce

Weaver:

'demagnifying.' " writes Mr.

"Today's high-speed compu-

ters, for example, depend on

tiny silicon wafers containing

intricate circuits and thousands

of transistors. They can be

produced with photographic

masks that have been made at

large scale, then ultraminia-

turized by photography

Someday, scientists hope,

these techniques will make

possible a miniature computer

rivaling the human brain with

its billions of connections. The

development of grainless films

already has made possible the

reduction of printing until each

letter measures only 100

of books in the Library of

Congress could be stored on a

At that size, all the millions

microscope-in-

through the

angstroms high.

single sheet of paper.

reverse.

## **Electron Microscopes Spy** On Nature's Invisible World

Alice-in-Wonderland world in

A whole new realm of atoms and molecules, a world man has diameter. never seen before, has been revealed by the electron microscope, an instrument that scope to such a point that they enlarges images with electrons were able to make a movie of instead of light rays.

The best optical microscopes, 2,000 times. They resolve, or genes that cause hereditary discriminate, objects no closer than about 2,000 angstroms, or 1/125,000 of an inch.

"By contrast, the best electron microscope can magnify an incredible 20 million crystal structure, learning how times, with a resolution on the order of two angstroms," reports Kenneth F. Weaver in the National Geographic.

Sees the Invisible "And even the individual only about one angstrom (about four-billionths of an inch), can Antarctica. be photographed in the same way that an invisible mote of dust can be 'seen' by the light unexpected benefit of the scattered when the mote floats through a bright beam of

'Angstrom-wide atoms are so small that it would take nearly a million of them to equal the thickness of a sheet of paper. The amazing viewing power

An incredible research tool of the electron microscope has now takes scientists into the already had an enormous effect on the life sciences. It is now possible to see viruses that are as small as 60 angstroms in

> Two scientists recently developed the electron microuranium atoms in motion. Biologists can even spot

limited by the wavelengths of normal cells changing into light, magnify no more than cancerous cells and identify diseases. The powerful electron micro-

scope is focusing on other sciences as well. Metallurgists are gaining new insights into metals corrode and fracture. Materials experts are looking

into the heart of rubber molecules to predict a tire's performance. Ecologists tracking down pollution can identify atom, which has a diameter of fine droplets, of sulfuric acid even in the pristine air of

> Works In Reverse "But perhaps the most

#### State Has Number Of Ghost Towns

The 100 counties of North Carolina have 157 uninhabited, abandoned towns and more than 1,000 ghost towns, all originally established in the 1700's and 1800's, according to a recently completed study by Treasure Index, a national publication.

A relatively small number of the old towns bloomed in size, in population and in prominence. The others are buried under such identifications as uninhabited abandoned towns, ghost towns and forgotten hamlets. Early indications show that the counties of Bladen, Buncombe, Chatham, Iredell, Moore, Randolph, Robeson and Watauga lead the state in

numbers of old towns. An abandoned town differs from a ghost town in that the latter is a community in drastically reduced circumstances. An abandoned town is exactly what the term implies-abandoned and therefore uninhabited. Such a town may have originally grown around a factory, a processing plant, a mine or a railroad station, for example. Many towns have suffered because they were bypassed by more modern means of transportation. Some suffered from too much water, other with not enough.

#### Reports For Duty

Marine Private First Class Charlie M. Dortch, son of Mr. and Mrs. Charlie G. Dortch of Route 2, Ridgeway, has reported for duty with Third Marine Division, Okinawa. He joined the Marine Corps in September 1976.

Leftover baked potatoes may be reheated by dipping them in hot water and baking again in a moderate oven.

Attach mini-pegboards to the insides of cabinet doors and hang cooking, cleaning, gardening, and craft tools nearly out of

#### Norlina 4-H Club Meets On Monday

By CHARLIE FIELDS, JR. Reporter

The Norlina Youth Improvement club held its monthly meeting Monday at the home of Mr. and Mrs. Thomas Kersey. The meeting was called to order by the president, Oita Cheston. Devotion and the minutes followed.

The business session was thereafter. Two new members joined the club. The group discussed having a sports event on April 11 at 1 p. m.

The educational topic was based on the play, "The Go Go Ghost Club." Three leaders. two parents and 27 members attended the meeting. Dues were paid and refreshments were served by the Kerseys.

#### Graduates

DENVER-Airman Michael D. Thompson, has graduated at Lowry AFB, Colo., from the U. S. Air Force technical training

course for weapons mechanics. Airman Thompson is a 1976 graduate of Mount Vernon N.Y. High School. His mother. Mrs. Geraldine C. Thompson, lives in Manson.

#### Birth

Mr. and Mrs. Raymond D. Stainback of Raleigh announce the birth of their second son, Christopher Brent. Mrs. Stainback is the former Sylvia Watkins of Palmer Springs, Va.

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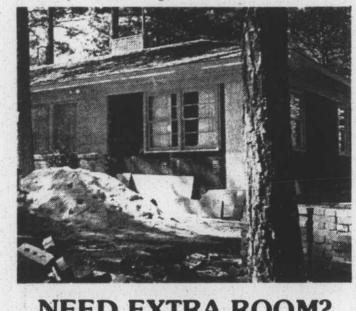
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