



FOOD FOR THE NEEDY - Dt. Louise Weeks, III, Commandress of Zeta Court no. 41 is joined by the charity committee members in preparing Thanksgiving boxes for needy families. Food was distributed to ten needy families in the Durham community by the court. Pictured left to right are Dts. Clara Perkins, Ella Gilmore, Harriet Armstrong, and Rosalee Sharpe, Nobles John Armstrong and Exter Gilmore, Dts. Pearl George, Hazel Flintall, Alice Rivers and Commandress Louise Weeks, Dt. Rosalee Sharpe served as committee chairman with Dt. Blanche Noel assisting.

MEN IN THE SERVICE

WILLIAMS

Marine Private Ernest Williams, son of Mr. and Mrs. Westley Williams of 426 Neville St., Fayetteville, was graduated from recruit training at the Marine Corps Recruit Depot, San Diego.

Students Awarded Fellowships

DURHAM - The North Carolina Central University School of Library Science has awarded fellowships for graduate study to four students.

One of the grants is for the spring, summer, and fall of 1976. The other three are to students who will begin work toward the Master of Library Science degree in the fall of 1976.

Miss Virginia M. Purefoy of Chapel Hill was awarded a Mellon Award, supported by the Andrew W. Mellon Foundation. She will concentrate on the field of academic librarianship in 1976-77.

Ron L. Jones of Raleigh, a recipient of the North Carolina Fellowship, will prepare for work in public librarianship in 1976-77.

Betty H. Hargrove of Franklinton, also a North Carolina Fellowship recipient, will study public librarianship in 1976-77.

Duchesses Of Utopia Give Program

The Duchesses of Utopia, a Federated Youth Club of Durham presented a most enjoyable program Sunday afternoon December 7 at the Lincoln Memorial Baptist Church. This program terminated their baby contest which was successful.

Edith M. Allen, vice president presided and recited one of her original poems, "Little Ones"; invocation was given by Sheri Buie, and president, Miriam Gattis, presented a creative dance.

A Child is Waiting. Special guest on the program were Denise Pettiford dancing to the tune of Young, Gifted and Black; and Venice Boone who recited the poem, "A Woman's Image and danced to the music of Ebony Women. Mrs. Edith M. Johnson, advisor, made remarks and presented the gifts to the parents of the winners. Other members of the club are Teresa Johnson, Danita Gattis, Crystal Lunsford, Michele Lunsford, Deborah Owens, Kathy Owens, Shelia Owens, and Donnetta Wall. Advisors: Mrs. Alice M. Davis and Mrs. M. Yvonne Rush.

The Veterans Administration reports that 73 of the 100 senators and 306 of the 435 members of the House are veterans of military service.

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Warns Bargain Hunters To Beware of Fast Buck Artist

Christmas bargain hunters should be wary of mail-order swindlers, who may be operating in greater numbers this year because of economic conditions, according to the U. S. Postal Service.

Several types of fraud and misrepresentation cases have been investigated by Postal Inspectors during the holiday buying season in past years.

Postal consumer protection attorney George Davis recalled one operator who advertised a well-known make of camera for sale at about \$50 less than its market value.

"He got thousands of people to mail him checks for \$19.95, but fortunately the Postal Inspectors got into the case very quickly," Davis said. "They found out that the swindler wasn't delivering any cameras, and got a court ordered seizure of his bank account containing \$50,000 before he could leave town with the money."

Postal Inspectors say \$200,000 was eventually returned to people who fell for the scheme.

Postal Service attorney say another scheme that operated during the Christmas mail-order season involved misrepresentation of the size and quality of dolls. The dolls mailed to buyers turned out to be much smaller and of poorer quality than those pictured in an ad.

"Another area to be careful of," said Davis, "is mail-order franchising that could involve obligations to buy and sell greeting cards for the holiday season. You could end up with a lot of cards that won't sell and would be difficult to give away."

Postal officials say that although the vast majority of mail-order companies are honest, the promoters of falsely advertised products show goodwill toward no one, not even during the Christmas season.

LIGHTWAVE COMMUNICATIONS SYSTEMS IN OUR FUTURE

Bell Telephone Laboratories soon will begin testing an experimental communications system that uses light to carry information.

This revolutionary system, which transmits information on light guided through thin glass fibers, is slated to undergo actual testing beginning early next year. The place is Bell Labs' Atlanta, Georgia facility where a 2000-foot cable containing over 100 fibers will be installed in ducts and manholes. Joining individuals fibers at the ends of the cables will enable testing of transmission lines many miles long.

Although this system is in the exploratory development stage and not ready for actual use by operating telephone companies, it represents a significant step forward from the laboratory environment to one approximating field conditions. An important feature of the equipment in this system is the packaging, which has been designed to be compatible with conventional electronics used in central office equipment.

The purpose of the experimental system is the evaluation of pulsed light transmission for use between Bell Telephone switching offices in metropolitan areas. Recent progress at Bell Labs and elsewhere in this technology has led the Bell System to consider lightwave communications as possible alternatives to cable and microwave radio.

The experimental lightwave communication system will be used to conduct a two-part study at transmission rates of 1.544 million bits a second and 44.7 millions bits a second (Mbs) respectively. The pulses of light will be created by light-emitting diodes (LEDs) and by miniature lasers which are modulated by interrupting the electrical current that drives the devices.

The extremely transparent glass fibers used in the experimental cables are supplied by Western Electric, the manufacturing and supply unit of the Bell System. The process for making the fibers was discovered and developed at Bell Labs. In related experiments glass fibers supplied by Corning Glass Works of Corning, New York, will also be used in a Bell Labs cable. Bell Labs designed a cable structure which cushions and protects the fiber guides so they can withstand the rigors of field handling, and aligns them for ease in splicing. This cable, containing over 100 glass fibers would have the capacity for handling tens of thousands of telephone conversations when used at the faster transmission rate. Methods for splicing these glass fibers in the field are also being developed, including a connector which make possible the simultaneous joining of all fibers in a cable with no handling of individual fibers.

The light source and detector devices have been packaged for practical everyday use. For example, the transmitter (the laser with its associated circuitry) and the receiver (the photo-detector with its associated circuitry) are packaged circuit boards containing the signal-processing, or repeater, electronics.

Individual fiber light guides are connected to both the transmitter and receiver packages by a rugged, flexible, plastic-coated section of fiber guide called a "pigtail". Craftspeople would simply plug the circuit boards containing the transmitter and receiver into specially designed shelves containing special connectors. There will be no need to work with individual fibers or to adjust the associated devices.

Because the laser in the higher capacity 44.7 Mbs transmitter is affected by changes in temperature, a feedback control circuit is included on the circuit board. This compensates for the effects of normal temperature variations likely to be encountered in central offices. The laser itself—a chip of aluminum gallium arsenide no larger than a grain of salt—is compatible in size with fiber dimensions. Lasers developed by Bell Labs have been operating continuously for two years and are expected to be highly reliable devices.

Light from the tiny laser source travels over the glass fiber guide and is converted to an electrical signal by a highly sensitive silicon detector dimensionally compatible with the fiber.

The second set of experiments, utilizing LED sources and less complex silicon detectors, is designed to evaluate simpler systems that would operate at 1.544 Mbs to carry 24 one-way, simultaneous telephone conversations per fiber light guide.

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1971 Comet 2-Door Hardtop 6 cyl., AT	\$1395	\$1195
1969 Torino 2-Door Hardtop AT	\$1195	\$995
1970 Maverick 6 cyl., straight drive	\$1195	\$995
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1967 Chevrolet Impala 4-Door sharp	\$895	\$595
1969 Olds Cutlass 4-Door AC, solid	\$1295	\$1095
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F78-15	\$35.95	\$2.55
G78-15	\$37.95	\$2.69
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J78-15	\$41.95	\$3.09
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C78-14	\$20.95	\$2.04
E78-14	\$21.95	\$2.27
F78-14	\$23.95	\$2.40
G78-14	\$24.95	\$2.56
H78-14	\$26.95	\$2.77
5-60-15	\$19.95	\$1.79
F78-15	\$22.95	\$2.45
G78-15	\$24.95	\$2.60
H78-15	\$26.95	\$2.83
L78-15	\$34.95	\$3.11

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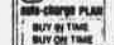
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