

Tryon Daily Bulletin, Fri., Nov. 20, 1981

The Cosmic Reporter

By Tim Linder

This week I have a guest columnist, 18 year old Randy Flynn of Saluda. Randy is an avid space enthusiast and has done research into the European Space Agency. Here is Randy's article:

"ESA Comes of Age"
By Randy Flynn

The European Space Agency, or ESA, was formed on May 31, 1975. It is made up of two previous organizations, the European Space Research Organization (ESRO) and the European Space Vehicle Launcher Development Organization (ELDO). ESA conducts satellite development, launcher construction and space research.

ESA is made up of eleven member states; Belgium, Denmark, France, Germany, Ireland, Italy, Netherlands, Spain, Sweden, Switzerland and the United Kingdom. Austria, Canada and Norway are observer nations and participate in some programs.

The agency has a total staff of 1425 people at its headquarters in Paris and various installations. Field installations are located in Noordwijk, Netherlands; Darmstadt, Germany and Frascati, Italy. These installations are responsible for study, development and testing of satellites, satellite orbital operations and Earthnet activities respectively. Other facilities located at Carnarvon, Australia; Kourou, French Guiana; Malindi, Kenya; Redu, Belgium; Fucino, Italy; Michelstadt, Germany and Villagranca, Spain are responsible for satellite tracking and data acquisition.

ESA also participates in some

joint programs with NASA. Spacelab for example is a reusable space laboratory designed and developed by ESA. Spacelab will be carried into orbit aboard the Space Shuttle sometime in 1983.

Some other current activities that are being planned by ESA are: Hipparcos, a satellite to be used for astronomical measurements; Giotto, a space probe that will encounter Halley's Comet in late 1985; and two Earth observations satellites called Meteosat and Sirio-2.

ESA's biggest and most important project at present is the new Ariane launcher. The Ariane rocket will enable Europe to have their own launch capabilities. Ariane will soon be fully operational after its fourth test flight. The Ariane launcher is designed to place up to a 970 kg payload into geostationary orbit. Later modified versions of Ariane will be able to place 2000 kg to 2420 kg payloads into transfer orbits.

The Ariane launch site is located at Kourou in French Guiana. This launch site benefits from a natural lift during an eastward launch. The Ariane can place in orbit from this site a payload 17% heavier than an equivalent launcher can from the Kennedy Space Center.

In just over six years of formal existence, ESA has become a major power in space.

WINE DISCOUNTS AVAILABLE. All wines at MR. A's DELI are discounted by the case. Also, the wholesalers are promoting over 40 brands for additional savings. Example: TAYLOR NY STATE CHAMPAGNE 15.36 off on a case or 4.99 a bottle. 859-9439. adv. 18, 20, 24, 27, c.

GOOD SHEPHERD EPISCOPAL CHURCH

**Special Sunday Services at the
Beginning of Advent and
in Preparation for Christmas**

- November 22, Last Sunday after Pentecost, 8 A. M. — Holy Communion, Breakfast and Vestry Meeting
November 23, First Sunday of Advent, 9:30 A.M. — Morning Prayer
December 6, Book-of-the-Month Sunday: St. Mark's Gospel, 9:30 A.M. — Morning Prayer and Sermon
December 13, Third Sunday of Advent, 9:30 A.M. — Holy Communion and Sermon

We invite everyone to share our Christian fellowship in all events at Good Shepherd Church

REVIVAL

Tryon Church of God
Nov. 15 — 22, 7 p.m. Nightly
Speaker, REV. McDONALD
Everyone Welcome

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Rub on. Ideal for paper, card-
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The Peppermint Gift Shoppe

Announces

It will be open for visitors and Browsers —

Friday and Saturday After Thanksgiving

November 27 and 28

10:00 a.m. to 4:00 p.m.

Out of town visitors will enjoy this unique shoppe

At The Meeting Place

500 Carolina Dr., Tryon, N. C.

Christmas Sale

Thursday, Dec. 3

10:00 a.m. to 8:00 p.m.

THANKSGIVING at



The Duck Cedar Inn

LAKE LURE, N. C.

Enjoy a traditional Thanksgiving Dinner in a relaxed, rustic atmosphere with a beautiful view of Lake Lure and surrounding mountains.

Our Menu for the day will be:

*Roast Turkey with sausage and sage dressing
Virginia Baked Ham with Pineapple Rings
Fresh Mountain Trout
Prime Ribs Au Beef*

*Choice of Appetizers
Large selection of vegetables
Variety of Homemade Pies
Ice Cream and Plum Pudding*

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TRAY**