

# See Voyager's Saturn flyby

In the late summer of 1977, the United States launched 2 unmanned voyager spacecraft on an extensive tour of the outer planets. The first payoff occurred in 1979 when both voyagers passed by Jupiter and its moons, taking what have been termed the most exciting photographs in the history of the space program.

On November the 11th, voyager 1 will pass within several thousand miles of the surface of Titan, one of Saturn's moons, on November the 12th, voyager will come within 77,000 miles of the upper cloud layer of Saturn and then continue on to pass out of the Solar system.

During the three day period extending from November the 11th to the 13th, Portland cable subscribers and OMSI visitors can experience something special... a television program partially originating from a billion miles in space, from directly over the surface of the planet Saturn. The National Aeronautics and space administration has reserved satellite time through home box office via Satcom 1. Special programming, animated sequences, and general background information will be combined with live pictures of

Saturn and its moons in a program which will originate from the Jet Propulsion Laboratories.

Liberty Cable Company, on its channel 33, will broadcast live and also tape delayed feeds of the NASA Saturn fly-by programming, for those Portlanders who do not have access to the cable programming, OMSI will carry the programs on its large 6 foot television projection system at the Science Center's West Hills location, across from the Zoo. OMSI will carry the live feeds and then rerun them throughout the day until their 5pm closing hour. Liberty Cable will carry the daytime live feeds and then rebroadcast them in the evening.

All NASA Voyager special programming will be carried on Liberty Cable's channel 33. Following is the schedule: Tuesday, November 11 - live broadcast, 11am to 1pm. Wednesday, November 12 - live broadcast 2 to 5pm, evening repeat 9pm to midnight. Tuesday, November 13 - live broadcast 11am to Noon, evening repeat 8 to 9pm.

During the period of the Voyager Saturn flyby, OMSI will have special features and presentations for the public, on the weekend of November 15 and 16, OMSI will run

continuous showings of the highlights of the NASA television programming on the large Sony projection screen. All viewings of the NASA programs are free after regular OMSI admission. The Planetarium hotline (248-5947) will have all program times and special programming information.

As a follow up to the fly-by of the 11th, 12th, and 13th, OMSI will present a special Voyager night on Wednesday, December 17th. Featured will be a specially edited version of the NASA video tapes, a special Voyager Planetarium show, a guest speaker from NASA, and the collection of Voyager's Jupiter, as well as Saturn photography.

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Dr. Adebisi Ogunsolo (center) of the Ministry of Education in Nigeria, stopped in Portland during her visit to the United States to find "innovative ideas" to take back to her country. She spent

Thursday afternoon at the Black Educational Center talking to the youngsters and taught them a game played by youngsters in her country.

(Photo: Richard J. Brown)



MARGRET RICHARDSON

(Photo By: Denise A. Bartell)

## Richardson pushes education

By Nathaniel Scott

Margret Richardson, a Portland resident for the past 37 years, employed as an information clerk at Portland Community College, Sylvania campus, speaks of the educational process thusly: "Getting an education has proven essential, because without one, a person will not get very far as far as jobs are concerned."

She can be seen throughout the school, flashing her smile, waving hello, and frequently exchanging a word or two with students. When asked her views about students, she had this to say: "There is no reason why Blacks or anyone else should come here, or go to any school, if they are not interested in getting an education. That's what these places are for. The majority of the students here seem to be here to get an education, and the ones that I most frequently come in contact with are

serious about getting an education."

She is basically a stay-at-home person. "I enjoy reading and cooking. I like to look at cookbooks and then do what I want to with my recipes. Why? Because I have my own feelings about recipes -- how I would like those recipes to taste. Basically I like to experiment."

She has a brother employed at PCC, parents residing in the city, and a son who has presented her with two grandchildren. A religious person, a Jehovah Witness, she is considering taking some college classes to enhance her earning possibilities. PCC she said, "offers all employees a chance to take classes and upgrade their job capacity, and who know what the future may bring."

Margret Richardson is among the growing number of Black women who are taking advantage of the opportunities that are available.

**The Nominating Committee** of the Portland Branch, NAACP INVITES YOUR SUGGESTIONS FOR OFFICERS AND MEMBERS OF THE Executive Committee. Nominations will be made at the branch meeting November 16 at 4 p.m. at St. Mark Baptist Church, 103 NE Morris. In addition to the report of the Nominating Committee, nominations may be made by written petition signed by three or more members in good standing. No one shall be nominated without having first given his or her written consent and being a member in good standing. Forms may be obtained from Otto Rutherford, 833 NE Shaver, 281-3037, or call any other member of the nominating committee. They are Janet Clemmer, 245-0015, Harry Ward, 281-5209, Marie B. Smith, 281-2761, Gertrude Crowe, 284-7550, Mattie Louis, and Dan Van Brocklin, 287-9567.

**St. Andrew Community Center**, 4940 N.E. 8th at Alberta Street, is accepting applications for additional members of the Board of Directors of the Community Center. The community Center runs a variety of programs and is available for use by the community. Those persons who are interested are asked to contact Sharon Miyaji at 281-4300 or 281-2600 for further information. Applications are closed after Thanksgiving.

### HOW TO INSULATE YOUR FLOORS

IF YOUR HOME IS BUILT OVER AN UNINSULATED CRAWL SPACE, YOU COULD BE LOSING UP TO 30% OF YOUR HEAT. INSULATE YOUR FLOORS & KEEP THAT HEAT IN THE HOUSE & SAVE MONEY. \$\$\$.

HERE'S HOW TO INSULATE YOUR FLOORS YOURSELF:

**1. BUY THE INSULATION AND OTHER MATERIALS**

- ① Measure the area of the floor you're going to insulate in square feet (length x width).
- ② Crawl under the house & measure the distance between the floor joists to determine the width of insulation to buy. Put on those comfortable jeans & take a flashlight.
- ③ Tell your insulation supplier the width of material & the area in square feet you have to cover. Get faced or unfaced fiberglass insulation batts or blankets with R-19 insulation value. If faced, Kraft or foil goes toward heated space.
- ④ Buy the same square feet of chicken wire to hold the insulation in place. Or you can use nails & 19 gauge wire for the "laced wire" method. With wire it costs less, but takes more time.

**2. GET YOUR TOOLS TOGETHER**

- ① Sharp knife or scissors to cut insulation.
- ② Tape measure.
- ③ A face mask, goggles, gloves & a long-sleeved shirt to protect you from fiberglass.
- ④ Staple gun & staples to attach chicken wire.
- ⑤ Grounded portable light with extension cord.
- ⑥ Wire cutters to cut chicken wire or straight wire.
- ⑦ A hammer for the "laced wire" method.

**3. INSTALL THE INSULATION**

- ① Spread the ground cover over the crawl space to control moisture & keep you clean. Overlap any seams by 12". Extend the cover up the foundation walls 12". Don't wrap cover above foundation support pads.
- ② Create a "shelf" between two floor joists with a width of pre-cut chicken wire or laced wire. (See sketches). To use the LACED WIRE METHOD drive a nail in each joist about every 12 inches & loop the wire back & forth to form the shelf.
- ③ Stuff the insulation into the "shelf" & work your way down the two joists, alternately stuffing insulation & stapling up chicken wire. Don't staple too far ahead of your stuffing. Some for the laced wire method.

**TIPS:**

- ① Measure your crawl space opening BEFORE you buy your materials to make sure you can get them into the space.
- ② Work on small areas at a time.
- ③ Get someone to help you.

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