

Legend Dies

After a life of danger, an 82-year-old Roseburg Marine veteran was fatally shot in his home during a robbery Sunday

PAGE 4

Young ducks in training

The Oregon women's basketball team's players and coaches stressed defense and fundamentals at a summer camp for young girls at McArthur Court

PAGE 5

TODAY

This is the last day of the fiscal year for all ASUO programs.

WEATHER

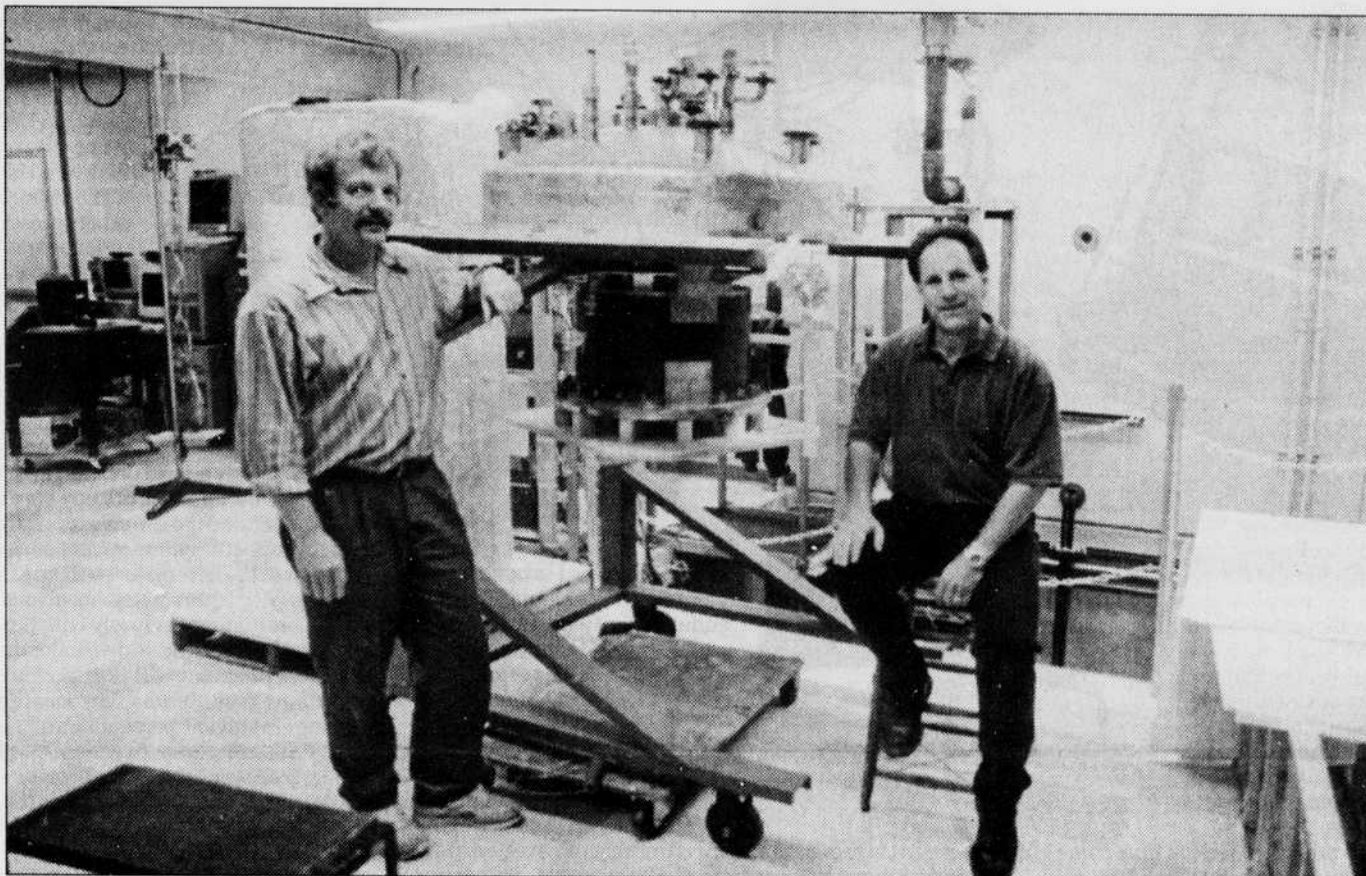
Today
Sunny
High 80. Low 54.
Wednesday
Mostly cloudy
High 77. Low 53.

University of Oregon
Eugene, Oregon

Oregon Daily Emerald

An independent newspaper
Volume 100, Issue 3

BREAKING NEW GROUND



"Research is a business where you're almost always wrong. It rarely works the first time."

Russel Donnelly
Professor

Research assistant Ladik Skrbek (left) and lab director Joe Niemela (right) help Donnelly with his project.

LAURA GOSS/Emerald

Colder than ice

Donnelly's research may eventually help date stars or measure weather patterns

Amy Goldhammer
Oregon Daily Emerald

He gives a whole new meaning to the word "frigid." Physicist Russell Donnelly deals with cryogenics, the study of extremely low temperatures, in his new, ground-breaking experiment.

The University professor was granted \$5 million — the largest grant ever given to one individual person from the National Science Foundation — in November 1996. Two years and five months later, Donnelly is working on a complicated project that has the science world buzzing.

Cryogenics involves more than just freezing dead celebrities. Donnelly is building and perfect-

ing a prototype helium flask that is eight feet tall and six feet in diameter. The project should overcome major barriers that have prevented engineers from administering realistic tests in a laboratory regarding problems such as turbulence.

"Research is a business where you're almost always wrong," Donnelly said. "It rarely works the first time."

Frustrated by many failed hypotheses and flopped experiments in this specific area of cryogenics, Donnelly got the idea for this project while bicycling along a path by a river.

Engineers are unable to accurately reach the Reynolds number, an extremely high, dimensionless number that measures velocity and flow, of

large objects such as submarines and airplanes when testing in wind tunnels. Donnelly hopes to get around this problem by using helium, which produces little friction, instead of air. The goal is to reach the Reynolds number in the laboratory under controlled conditions. This will help eliminate barriers in future cryogenic lab tests.

Instead of going outside and waiting for a windstorm to occur, the model will enable engineers and scientists to generate to the full extent whatever conditions are needed.

The outcome of this project will affect engineers, meteorologists and astronomers. This angle of

Turn to **HELIUM**, Page 3

Eugene Celebration gets new name, new historical focus

The event will cost \$258,600 but is expected to bring in a revenue of \$558,600, according to planners

By Peter Breaden
Oregon Daily Emerald

The new corporate look for the Eugene Celebration was unveiled Friday with Centennial Bank as the title sponsor. After 15 years of municipal operation, the Eugene City Council awarded the annual arts and entertainment showcase to Downtown Events Management Inc., a non-profit corporation.

"Our community expressed that they wanted this event and didn't want to pay with tax dollars," said Mick Westrick, director of DEM Volunteer Services.

Two weeks after it was created, DEM made a bid on the rights to the celebration.

"It's less than sixty days old," said Dave Crory, sales and marketing manager for DEM, which is an outgrowth of Downtown Eugene Inc. "DEI has really stepped up as a hero."

"It was in the conceptual stages, but it crystallized around the Eugene Celebration program," Crory said about the young corporation.

In order to secure funding for the event, DEM took out a \$150,000 loan from the City of Eugene and is currently building corporate support through businesses such as Lane Transit District, KMTR and PeaceHealth. The projected expenses for the celebration total \$258,600, while the projected revenue should amount to \$558,600, Crory said. Centennial Bank, the single

largest cash donor, will have the title sponsorship for the next three years.

"We felt that if we were going to make the contribution, we would want to be a title sponsor," said Gary Stevens, executive vice president of Centennial Bank.

The new program for the celebration will focus more on Eugene's heritage, Crory said. The late-September program will include an exhibit on "Eugene's Past, Present, & Future," a children's hayride, a storyteller, and a youth talent showcase in place of the Battle of the Bands.

In other Celebration additions, Eugene Mayor Jim Torrey cut the ribbon signifying the opening of the Celebration Store Friday morning. The former location of Baker's Pharmacy at 128 E. Broadway St. will be

Turn to **EVENT**, Page 3

