

# Oregon Daily Emerald

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## Professor achieves nanotech advances

*Jim Hutchison's research may lead to creation of a 'nano-scale circuit'*

BEN BROWN  
NEWS REPORTER

Size does matter, or at least distance does, according to University chemistry professor Jim Hutchison's research.

Last month, Hutchison and his team at the Oregon Nanoscience and Microtechnologies Institute made a scientific breakthrough when they discovered a method to control the spacing between nanoparticles.

Gerd Woehrle, a chemistry graduate student who worked with Hutchison to develop the technique, said this tool kit might allow people to build nano-scale circuits, something no one has yet been able to accomplish.

Woehrle said circuits made with nanoparticles would be smaller and more sensitive than existing circuitry and microchips made with these circuits could hold more memory and could be 10 to 100 times smaller. These circuits would also use a lower current than conventional ones.

Nanoparticles interact only at very small distances: 1.5 to 2.8 nanometers, which are one millionth of a millimeter. Until now, scientists have not been able to reliably create reactions between particles, which have varied reactions at different distances.

More fine-tuning of the exact distance between particles allows scientists to better predict and control chemical reactions.

Dependable spacing is accomplished by growing particles on a "DNA template." Discovering how to reliably space and tune these reactions is part of what Hutchison calls his "tool kit."

"We're making a nano-scale Lego set," Hutchison said. "Now we have to figure out how to put the Legos together."

Hutchison said he is committed to

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## COMING TOGETHER



Thursday afternoon at the University longhouse construction site, workers Rick Parrish, Chuck Hatcher, Jim DeVorak, Gene Koll and Kirk Miller (left to right) of Preferred Construction, Inc. and Hatcher Crane Service, Inc. maneuver timbers into place with the assistance of crane operator Gary Smith.

Erik R. Bishoff  
Online & Photo Editor

## A new longhouse to call home

*The Many Nations Longhouse will combine influences from various Native American traditions*

OMIE DRAWHORN  
NEWS REPORTER

Construction is under way for the University's new Many Nations Longhouse, a \$1.2 million project that has been 10 years in the making.

The new longhouse, which is scheduled to be finished by late October or early November, will replace the original longhouse, a converted World War II army barracks.

In the meantime, Native American students are using a modular to hold their meetings.

"With the exception of the \$350,000 that was allocated from student building fees in 2002, the project was funded with private funds raised over the last five years," said Dave Hubin, Executive Assistant to the President, adding that students funded one-third of the building's cost. "The new longhouse) will allow the entire University to draw from and learn from native traditions."

A longhouse is a traditional community center common to many Native American peoples in the Pacific Northwest and around the country, according to the Many Nations Longhouse Web

site. The University's longhouse serves many purposes. It is a place for celebrating weddings, graduations, ceremonies and powwows, as well as for studying, socializing and relaxing. Many consider it a home away from home.

"During spring and winter powwows, students and community members come to the longhouse for a feast," said Gordon Bettles, Interim Steward of the longhouse.

Campus groups like the Native American Law Students Association, Southern Oregon Research Projects, Native American Student Union, Northwest Indigenous Language Institute and the Center for Study of Women in Society hold meetings there.

Bettles said the building is modeled after the Kalapuya tribe's longhouses and designed through many meetings with tribal elders, students and community members.

"This longhouse is the coming together of many different ideas of many different cultures," Bettles said.

Although the longhouse is modeled after the Kalapuya, nine tribes have contributed some item or idea to the project. For example, lumber

used in the new facility will come from the Warm Springs tribe.

Bettles said there is a stone at the entrance just inside the Longhouse that touches the ground because some tribes believe there should be earth in the longhouse.

"The door to the east symbolizes the tribal value of looking through the front door and greeting the rising sun," Bettles said. "The spirit goes into the west after people live their lives."

The longhouse will also have a skylight to represent those tribes that enter the house through the roof.

The original longhouse was beyond repair and virtually unlivable. Hubin called it a "spiritually rich, structurally decrepit building."

"The roof needed replacing," Bettles said. "The floor was so old, in some places you could actually fall through."

Bettles said it was cold in the winter and hot in the summer because of faulty air conditioning.

James Florendo, an academic advisor for the Office of Multicultural Affairs, said the building

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## Oregon Marine dies in Iraq

*A vehicle accident killed James Huston Jr. of Hermiston, one of at least 24 soldiers with 'close Oregon ties' to die since March 2003*

ASSOCIATED PRESS

Hermiston, Ore. — An Eastern Oregon marine has been killed in action in Iraq, according to military officials.

In a brief news release, the Pentagon said that Lance Cpl. James Huston Jr., 22, of Hermiston, died Friday in a vehicle accident while his unit was responding to "hostile action" in Al Anbar Province, Iraq.

The military said he was a rifleman based out of Camp Pendleton, Calif.

According to Camp Pendleton spokesman Nathaniel

Garcia, Huston joined the Marine Corps on Oct. 10, 2001. He had been awarded several military honors, including the Navy and Marine Corps achievement medal, the Armed Forces expeditionary medal, the presidential unit citation and the Sea Service deployment ribbon.

James's brother Matthew, an electrician in the Navy, told the East Oregonian newspaper in Pendleton that knowing his brother's death was an accident helps the family deal with their loss.

"I think we all take comfort knowing it wasn't in his hands," Huston said. "It was an accident, and accidents happen."

James Huston had been redeployed to Iraq in March, after being in the country the first two months

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## NEWS BRIEF

### Endowment by alumnus honors EMU's first director

University graduate Andrew "Andy" Berwick Jr. and his wife Phyllis have given \$100,000 to start an endowment for student leadership activities in the EMU.

The endowment, called the Richard C. Williams Endowed Student Leadership Fund, is named after Berwick's former mentor and the EMU's first director.

The endowment will support workshops, seminars, student and professional staff members, and an information resource for campus.

"When I was chairman of the board of the student union and Dick was

the director, I spent a great deal of time talking with him about student union problems and how to solve them," said Berwick, a 1955 business graduate. "He never gave me direct answers. He always tried to make me come up with my own solutions. His mentoring helped me develop a lot of self-confidence and organizational skills that were a very important part of my success in the business world."

Williams, who oversaw the EMU's construction and served as director from 1948 to 1954, expressed surprise at the endowment.

"I'm still at a loss for words," Williams said. "This is the nicest thing that's ever been done for me."

— Jared Paben