

Denver combines music, politics at Salem

By E.G. WHITE-SWIFT
Of the Emerald

(SALEM)...What does the departure of Chad Mitchell from the Chad Mitchell Trio in 1964 have to do with nuclear safeguards in 1976?

Mitchell's departure from the trio was to be the golden opportunity for either guitarist Steve Brainard or a Colorado songwriter. Brainard is still punching cattle, but the songwriter, John Denver, spent four years with the trio before striking the gold-dust of stardom.

Denver brought guitar, songs, and a backup band of his own to the Salem armory Monday night and left some gold behind. Over \$20,000 was raised for the coffers of Oregonians for Nuclear Safeguards (OFNS). OFNS, proponents of Ballot Measure No. 9 and sponsors of the special "Yes on 9" benefit concert, will use the proceeds from the show for a "Yes on 9" media campaign.

The media campaign will also feature Denver; he recently filmed three TV spots in Colorado, one of which will be used locally by OFNS. In addition, Denver spent his own money to fly himself and the band to Oregon. He also donated a reported \$25,000 to OFNS prior to the concert as part of his financial commitment to the politics of nuclear safeguards.

Politics and music are not common denominators, so Denver spent most of the

three-hour concert sweating out songs. "What we're here in the armory for has to do with life," said Denver. "What I do is sing songs about life; we're not going to debate safeguards."

The politics were left at the ticket office. Salem's armory was sold out, with all 3,700 tickets going for \$10. There were no reserved seats, so some diehard Denver fans had been waiting outside the armory doors since 9 a.m. for the opportunity to scream through the door at 7 p.m. to claim front row seats.

How did John Denver with, let me count...eleven record albums, television specials, sell-out concert tours, a highly visible image and household name, end up in Salem doing a benefit concert for nuclear safeguards? Simpatico is responsible. Simpatico was also responsible for the nuclear safeguards benefit performance by Lily Tomlin in Eugene this summer.

Simpatico is in the business of raising funds for environmental causes by arranging benefit performances. Although they have largely arranged benefits by performers so far, they expect to contract athletes and other public personalities in the future.

Primarily a non-profit producer, the firm is currently operating under a \$20,000 grant given to them in June by three wealthy San Francisco individuals interested in environmental causes. The nine-month grant provides living expenses for two full-time and two half-time promoters.

Although their present priority is nuclear safeguards, Simpatico has organized benefits for other groups and intends to support other environmental causes after the



John Denver

November elections. They have promoted benefits for Indians and legal fees battles, fought the cutting of the redwoods, supported efforts to save the mountain lion in New Mexico and helped raise money for wilderness studies.

"Right now we think nuclear safeguards

is the most important issue facing the country," says Simpatico promoter Vicki Leon. "In addition to nuclear initiatives like Ballot Measure No. 9 in Oregon, we are working on a mass media public education program to inform people about energy conservation methods that they can use today."

Simpatico promoters state that John Denver has made a very personal and very strong commitment to nuclear safeguards. One promoter told the Emerald that one of Denver's secret goals is to be interviewed by CBS on "Face the Nation" about nuclear power.

Even though Denver could have argued nuclear philosophy from the stage, he refrained, saying there are two sides to every issue and he did not want to promote his personal decision. Although he didn't point it out, most of the screaming and shrieking fans were not old enough to vote or had already made their own political decisions about nuclear safeguards.

"What I do is take advantage of the place I find myself," Denver says, "to help make choices available to the people. Only to the degree that people participate will the democratic society choose what it wants."

After all the hand clapping faded away and the last microphone jack was unplugged, a few lines from one of Denver's songs filtered out.

"Though the cities start to crumble," goes Denver's song, "come and stand beside us, we can find a better way."

Chemistry Prof develops unique microscope

By LINDA CHAPMAN
Of the Emerald

The only ultra-high vacuum photoemission electron microscope in the world resides on the first floor of Science II. The unique instrument was developed and built entirely at the University by Hayes Griffith, professor of chemistry and a staff of graduate students, research assistants and Science Services technicians.

The most important feature of the apparatus is its ability to photograph surface samples. Most electron microscopes require cross-sections but it is nearly impossible to obtain a sizable cross-section of certain biological material, according to Rudy Dam, a graduate student in molecular biology and a participant in the microscope project.

The new microscope can photograph cell membranes and the material that encloses most cells. It therefore may prove productive in future cancer research.

Oregon's photoemission electron microscope differs from other electron microscopes in that the electrons which produce the photograph are emitted from the sample rather than from an external source. This allows the researcher to identify chemically different areas in the sample, since each chemical emits electrons at differing rates. (Electrons are negatively charged atomic particles.)

It's a "clean" system, according to Rudy Dam. The ultra-high vacuum eliminates all sources of contamination, a condition which is essential to biological research.

Photoemission microscopes without this feature exist in Europe, where they are used primarily for metal research.

Another important feature of the instrument is its ability to keep biological samples cold enough to preserve their structure so that they can be photographed.

Although work has already been done on the new instrument, it will not reach its optimum level of resolution and magnification until a specialized laser arrives that is being built at the Oregon Graduate Center in Beaverton. The laser will replace the xenon gas and metal vapor arc lamp that is being used as an excitation source.

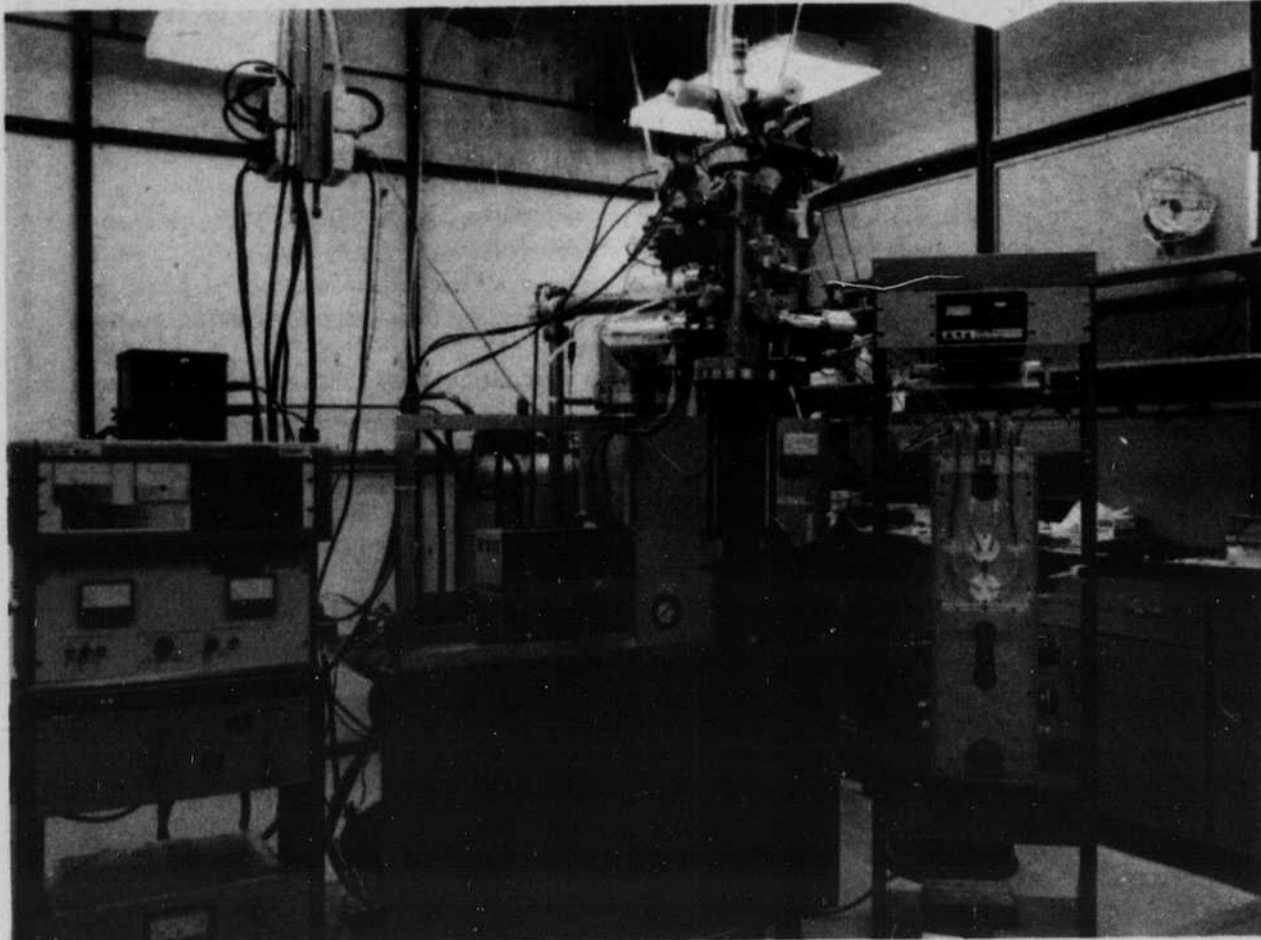
Completed this July, the project has been eight years in development. A prototype microscope

was completed in 1972. The new instrument is a refined version of that first attempt.

Griffith received grants from the National Science Foundation and the National Institute of Health to carry out his research. Chief designer and builder was George Lesch of University Science Services. Keith Congsley also assisted with the project. Gertrude Rempher, a professor of physics

at Portland State, designed the lenses.

Griffith said that undergraduates "right out of freshman chem" are participating in sample preparation and some experimental research projects of their own on the microscope. "Being a chemist is being an apprentice," said Hayes, who tries to involve undergraduates in major research projects.



University Prof. Hayes Griffith and a staff of assistants developed and built this unique ultra-high vacuum photoemission electron microscope, capable of photographing cell membranes.

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