OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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PORTLAND STATE UNIVERSITY SEISMIC REHABILITATION PROJECT RELEASED

Portland, Oregon: The Oregon Department of Geology & Mineral Industries (DOGAMI) has released Special Paper 38 - PORTLAND STATE UNIVERSITY ONDINE RESIDENCE HALL SEISMIC REHABILITATION DEMONSTRATION PROJECT By Yumei Wang, Oregon Department of Geology & Mineral Industries and Christopher J. Heathman, Washington Department of Transportation. This Special Paper summarizes the successful seismic upgrade project of the 15-story Ondine Residence Hall at Portland State University (PSU) in Portland, Oregon.

Ondine Hall, built in 1966, provides student housing as well as other limited student services, such as classrooms, a theatre, and a laboratory. In 1996, this building was evaluated by structural engineers. Structural seismic deficiencies were found to pose a serious life-safety threat to the student, faculty, and staff who live and work in the building.

In April 2004, the Oregon Department of Geology and Mineral Industries (DOGAMI) was awarded a $3.8 million grant by the FEMA Pre-disaster Mitigation Program (PDM) for seismic upgrades to buildings in the Oregon University System (OUS). Of this, $2.3 million was allocated to conduct a partial seismic upgrade to Ondine Hall.

Final mitigation costs were approximately $3 million, with the state providing the additional $700,000 in seismic rehabilitation funds. PDM work was completed in November 2005.

The Ondine Hall upgrade was a high-visibility seismic rehabilitation demonstration project. It raised earthquake hazard awareness on campus, in the community, and among state leaders. This project has helped establish a foundation for more seismic mitigation of high-risk educational facilities.

This project, in many ways, previews the work that eventually will follow the just released Statewide Seismic Needs Assessment report. Funds in the form of state grants for seismic mitigation of public schools and other emergency facilities will be available in the future to do the same type of seismic rehabilitation that

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was completed at Ondine Hall.

Special Paper 38 - PORTLAND STATE UNIVERSITY ONDINE RESIDENCE HALL SEISMIC REHABILITATION DEMONSTRATION PROJECT is available on CD-ROM for $10. It can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 177, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at **http://www.naturenw.org**. There is a $4 shipping and handling charge for all mailed items. For additional information, please contact the Nature of the Northwest Information Center. Additionally, this item as well as all department maps can be purchased at DOGAMI Field Offices including 5375 Monument Drive, Grants Pass, (541) 476-2496 and 1510 Campbell Street, Baker City, (541) 523-3133.

The Oregon Department of Geology and Mineral Industries is an independent agency of the State, and has a broad responsibility in developing a geologic understanding of natural hazards. We then make this information available to communities and individuals to help reduce the risks from earthquakes, tsunamis, landslides, floods and volcanic eruptions. We assist in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards are key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

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http://www.OregonGeology.com

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