

WILLIAM (BILL) J BURNS

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EDUCATION

Master of Science (MS), Portland State University, Portland, OR

- Major: Geology (Engineering Geology)
- Master's Thesis: Engineering Geology and Relative Stability of the Southern Half of Newell Creek Canyon, Oregon City, Oregon
- Teachers Assistant (TA) and Research Assistant (RA)
- Graduated 1999

Bachelor of Science (BS), Florida State University, Tallahassee, FL

- Major: Geology
- Post Bachelor Studies, Civil Engineering Department at FSU
- Graduated 1994

American Society of Civil Engineers (ASCE) Short Course, Earthquake Induced Ground Motions, 2006

Association of Engineering Geologists (AEG) Short Course, Soil Strength and Slope Stability, 2008

Portland State University (PSU), Short Course, Project Planning and Organization, 2014

Emerging Manager Training Program, Short Course, DAS, 2017

Wilderness First Aid Training 2017

Foundational Training Program – DAS Management Education Series, 2019

TEACHING & SHORT COURSES

Adjunct Professor, Portland State University, Department of Geology, 2011, 2015

- Masters Students Thesis committee member

Courses/lectures

- Lewis and Clark College, Environmental Science
Spatial Problems in Earth Systems Science, 2015
- PSU, Engineering Department
Geotechnical Case Histories, 2012
Geotechnical Case Histories, 2010
Geotechnical Case Histories, 2002
- PSU, Geology Department
Advanced Engineering Geology, 2009
Landslides, 2011
Advanced Engineering Geology, 2013
- OASIS Adult Education Program, 2011
- Oregon Department of Geology and Mineral Industries, 2013, 2014
Short Course: Protocol for Inventory Mapping of Landslides
- Association of Engineering Geologists (AEG) Annual Meeting, 2013
Short Course: Protocol for Inventory Mapping of Landslides

GRADUATE STUDENT ADVISEES & MENTORING

Serin Duplantis, 2008-2012. Student/Early Career Mentor

Kate Mickelson, 2009-2011. MS Thesis committee. Portland State University

Mike Marshall, 2013-2015. MS Thesis committee. Portland State University

Cullen Jones, 2015. Student/Early Career Mentor

Sebastian Durringer, 2013-present. MS Thesis Advisor. Kent State University

Kassandra Lindsey, 2016-17. Student/Early Career Mentor

Heather Herinckx, 2017-18. Student/Early Career Mentor

Justin McCarley, 2018-19. Student/Early Career Mentor
Carlie Duda, 2020. Student/Early Career Mentor

LICENSES & REGISTRATIONS

Registered Professional Geologist (PG), Oregon
Certified Engineering Geologist (CEG), Oregon

WORK EXPERIENCE

Oregon Department of Geology and Mineral Industries (DOGAMI), Portland, OR

- Natural Resource Specialist 4
- Technical lead on landslide hazards at DOGAMI
- Landslide Geotechnical Specialist / Engineering Geologist
- Principal Investigator / Project Manager on projects involving research and creation of methodologies, geologic hazard maps, risk analysis, report writing and publication, and outreach
- Grant proposal development and writing
- Natural Hazards Section Supervisor 2016-2017
- Earth Science Section Supervisor 2018-2020
- Chair, DOGAMI Technical Review Committee, 2015-17, 2020-present
- Oregon Energy Facility Siting Council (EFSC) Lead, 2004-2017
- Oregon GIS Framework Program, Landslide Element Lead 2009-present
- DOGAMI Representative on Oregon Interagency Hazard Mitigation Team, 2016-present
- Chair, Oregon Landslide Risk Reduction Team (OLRRT), 2018-present
- DOGAMI Employee 2004-present

GeoStandards Corporation, Portland, OR

- Senior engineering geologist, project manager, and office manager
- 1998-2004

Mount Hood National Forest, Gresham, OR

- Engineering geologist
- 1996

NTL Engineering and Geoscience, Inc., Great Falls, MT

- Lab technician and field assistant
- 1993

PROFESSIONAL ORGANIZATIONS

Association of Engineering Geologists (AEG)

- Oregon Section AEG Program Chair 2005-2006
- Oregon Section AEG Newsletter Editor 2006-2012

Geological Society of America (GSA)

- Landslide Committee Co-Chair: 2020-present
- Environmental and Engineering Geology Division Management Board: 2011-2016
- Session Chair 2009 Annual Meeting: Landslides in the Pacific Northwest: Advances in Research and Practice
- Session Chair 2012 Annual Meeting: Insights into Geological Processes and Hazards Acquired through Recent Technological Advances
- Session Chair 2013 Annual Meeting: Landslide Inventories, Data Dissemination, and Risk Reduction
- Session Chair 2014 Annual Meeting: Landslide Hazard Analysis: Maps, Monitoring, Models, and the Future; Environmental and Engineering Geology

- Session Chair 2015 Annual Meeting: Landslide, Subsidence, and Debris-Hazards: Integrating Engineering Geology Research and Communication Solutions; Environmental and Engineering Geology Student Research Competition
- Session Chair 2016 Annual Meeting: Landslide Hazards: Inventories, Hazard Maps, Risk Analysis, and Warning Systems
- Session Chair 2017 Annual Meeting: Subduction Zone Coseismic Landslides Oral
- Session Chair 2017 Annual Meeting: Landslide Inventories Posters
- Session Chair 2018 Annual Meeting: Communicating Geologic Hazard and Risk: Sharing Successes, Failures, and Lessons Learned
- Field Trip Lead 2019 Cordilleran Section Meeting: Landslides in the Columbia River Gorge
- Session Chair 2019 Cordilleran Section Meeting: Geologic Hazards: Hazard Maps, Risk Analysis and Reduction, and Long-term Landscape Evolution

WORKSHOPS & SYMPOSIA CONVENED

Landslide Forum, 2006
 Landslide Symposium, 2007
 Landslide Sessions at GSA, 2009
 Cascadia Coseismic Landslide Workshop, 2017

SPECIAL TEAMS

GSA-EEGD Landslide Committee
 Cascadia Coseismic Landslide Workgroup
 ETART Geo Hazards Assessment 2020 wildfires
 GEER 2020 wildfires

GRANTS RECEIVED

2020: USGS Landslide Program – 2020 Wildfire Post-Fire debris flow data collection, Oregon, \$50,000, Principal Investigator.

2020: FEMA Risk Map (CTP) – Landslide Hazard and Risk Reduction in Wasco County, Oregon, \$143,000, Principal Investigator.

2020: USGS Landslide Program, Landslide initiation and monitoring: Collaborative Research with DOGAMI, \$10,000, Principal Investigator

2020: NEHRP, USGS Earthquake Hazards Program, External Research, Investigation of Cascadia Earthquake Triggered Landslides: Collaborative Research with DOGAMI and UO, \$15,000, Principal Investigator

2018: FEMA Risk Map, Geologic Hazard Mapping in Benton, Marion, Washington, and Morrow Counties, \$660,000, Collaborator

2018: FEMA HMGP (DR4258-8-F), Landslide Risk Reduction in Oregon, \$350,000, Principal Investigator

2017: NEHRP, USGS Earthquake Hazards Program, External Research, Investigation of Cascadia Earthquake Triggered Landslides: Collaborative Research with DOGAMI and UO, \$45,000, Principal Investigator

2017: Tillamook County-FEMA Risk Map (EMS-2017-CA-APP-00010), Regional Landslide Inventory, Susceptibility, and Risk Analysis, \$165,000, Principal Investigator

2016: FEMA Risk Map (EMS-2016-CA-APP-00017) guide to landslide risk reduction through land use: Collaborative with DLCD, \$83,600, Principal Investigator

2016: OSU/ODOT Research Grant (No. K5319A-A), Enhancing Landslide Inventorizing, Hazard Assessment, and Asset Management Using Lidar, \$53,138, Collaborator

2016: NEHRP, USGS Earthquake Hazards Program, External Research (G15AS00037, 2016-0063) Investigation of Cascadia Earthquake Triggered Landslides: Collaborative Research with DOGAMI and UO, \$60,112, Principal Investigator

2015: City of Eugene-FEMA Risk Map (EMA-2015-CA-00106), Regional Landslide Susceptibility and Risk Analysis, \$161,678, Principal Investigator

2014: City of Portland-FEMA Risk Map, Regional Landslide Susceptibility and Risk Analysis, \$175,254, Principal Investigator

2014: Bureau of Land Management (L14AC00345), Landscape LiDAR Mapping within the Mill Creek Watershed, Coos Bay, \$19,933.97, Principal Investigator

2014: Washington County Grant (CA 14-0641), Regional Landslide Hazard Mapping, Area 93, Washington County, Oregon, \$36,000, Principal Investigator

2013: Curry County-FEMA, Intergovernmental Agreement IGA, Landslide Inventory Mapping, Coastal areas of Curry County, Oregon, \$60,000, Principal Investigator

2013: Oregon Geospatial Enterprise Office, Framework Data Development Program, Statewide Landslide Susceptibility Map, \$50,000, Principal Investigator

2013: The City of Portland Water Bureau, Intergovernmental Agreement IGA 121220125, Landslide Hazard Study of the Bull Run Watershed, Oregon, \$115,000, Principal Investigator

2012: Oregon Department of Land Conservation and Development (DLCD), Intergovernmental Agreement IGA PS11015, Regional Landslide Inventory Mapping Harbor, Curry County, Oregon, \$15,000, Principal Investigator

2012: Clackamas County-FEMA, Intergovernmental Agreement IGA 11-21-2011, Landslide Susceptibility Mapping and Limited Landslide Risk Analysis, Northwestern Clackamas County, Oregon, \$121,876, Principal Investigator

2011: U.S. Environmental Protection Agency (EPA), Order No. EP-11-7-000174, Lidar Data Collection and Landslide Mapping Project of 5 Watersheds in the Oregon Coast Range, \$432,513, Principal Investigator

2011: U.S. Geological Survey, Award No. G10AC00133 Supplement No. 0001, Continued Landslide Inventory Mapping, Portland Metropolitan Region, \$90,000.

2010: U.S. Geological Survey, Award No. G10AC00133, Landslide Inventory Mapping, Portland Metropolitan Region, \$90,000.

2010: Oregon Emergency Management and FEMA, Hazard Mitigation Grant Program HMGP 1733-14-F, Landslide Risk Analysis along the Highway 30 Corridor, Columbia and Clatsop Counties, Oregon, \$91,243.

2009: USGS Cascade Volcanic Observatory Grant (ARRA-SV0008A) as Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Mult-Hazard Risk and Vulnerability Assessments at Select drainages Around Mount Hood (OR) Using Methodologies That Would Be Applicable to Other Volcanic Areas," \$180,000.

2009: Oregon Geospatial Enterprise Office Grant as Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Landslide Element Standard and Statewide Landslide Information Database Release 2 Development," \$76,000.

2009: USGS Landslide Grant (09CRGR000) as researcher, Oregon Department of Geology and Mineral Industries, Portland, OR for "Collaborative Landslide Hazard Study Initiative," \$75,000.

2009: Washington County Grant (CA 09-0103) as Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Regional Landslide Susceptibility Maps of the Western Half of the Linnton Quadrangle, Washington and Multnomah Counties, Oregon."

2008: City of Silverton Grant (41460-11242008) as Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Regional Landslide Hazard Maps of the City of Silverton, Marion County, Oregon."

2008: USGS Landslide Grant (08CRGR0005) as researcher, Oregon Department of Geology and Mineral Industries, Portland, OR for "Collaborative Landslide Hazard Study Initiative"

2007: Received FEMA DR 672 Hazard Mitigation Grant Program (HMGP) Planning Grant as Sub grantee, Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Landslide Inventory, Susceptibility Maps, and Risk Analysis of the City of Astoria, Clatsop County, Oregon."

2007: Received Washington County Grant (100075) as Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Regional Landslide Hazard Mapping, SW Quarter of the Beaverton Quadrangle, West Bull Mountain Planning Area, Washington County, Oregon."

2007: Received USGS Landslide Grant (07CRGR0009) as researcher, Oregon Department of Geology and Mineral Industries, Portland, OR for "Collaborative Landslide Hazard Study Initiative"

2006: Received USGS Landslide Grant (06CRGR) as researcher, Oregon Department of Geology and Mineral Industries, Portland, OR for "Collaborative Landslide Hazard Study Initiative"

2005: Received FEMA Pre-Disaster Mitigation Program Grant (EMS-2005-PC-0004) as Sub grantee and Principal Investigator, Oregon Department of Geology and Mineral Industries, Portland, OR for "Natural Hazard Mitigation Plan Development Support Project, Region 5 Mid-Columbia River and Region 8 South Eastern Oregon Counties"

2005: Received USGS Landslide Grant (05CRGR) as researcher, Oregon Department of Geology and Mineral Industries, Portland, OR for "Collaborative Landslide Hazard Study Initiative"

1997: Received METRO Grant (905828) as research assistant, Portland State University, Portland, OR for "Landslides in the Portland, Oregon Metropolitan Area Resulting from the Storm of February 1996: Inventory Map, Database and Evaluation"

PUBLICATIONS

- FEMA, December 2020, Release January 19, 2021. Archie Creek Fire, Holiday Farm Fire, Beachie Creek Fire, and Riverside Fire, Erosion Threat Assessment/Reduction Team (ETART), Summary Reports
- Calhoun, N.C., Burns, W.J., Franczyk, J.J., 2020. Landslide hazard and risk study of Tillamook County, Oregon, Oregon Department of Geology and Mineral Industries, Open-File Report O-20-13, <https://www.oregongeology.org/pubs/ofr/p-O-20-13.htm>
- Mirus, B.B., Jones, E.S., Baum, R.L., Godt, J.W., Slaughter, S., Crawford, M.M., Lancaster, J., Stanley, T., Kirschbaum, D.B., Burns, W.J., Schmitt, R.G., Lindsey, K.O., McCoy K.M. 2020. Landslides across the USA: occurrence, susceptibility, and data limitations. Landslides (2020). <https://doi.org/10.1007/s10346-020-01424-4>
- W.T., Struble, J.J., Roering, B.A., Black, W.J., Burns, N., Calhoun, Wetherell, L., 2020. Dendrochronological dating of landslides in western Oregon: Searching for signals of the Cascadia A.D. 1700 earthquake, Geological Society of American Bulletin
- Appleby, C.A., Burns, W.J., Hairston-Porter, R.W., Bauer, J.M., 2019. Coseismic landslide susceptibility, liquefaction susceptibility, and soil amplification class maps, Clackamas, Columbia, Multnomah, and Washington Counties, Oregon: For use in Hazus: FEMA's methodology for estimating potential losses

- from disasters, Oregon Department of Geology and Mineral Industries, Open-File Report O-19-09, <https://www.oregongeology.org/pubs/ofr/p-O-19-09.htm>
- Franczyk, J.J., Burns, W.J., Calhoun, N.C., 2019. Statewide Landslide Information Database for Oregon, release 4 (SLIDO-4.0), Oregon Department of Geology and Mineral Industries, Digital Data Series, <https://www.oregongeology.org/slido/index.htm>
- Sears, T.R., Lahav, M., Burns, W.J., McCarley, J., 2019. Preparing for Landslide Hazards, A Land Use Guide for Oregon Communities, Oregon Department of Land Conservation and Development (DLCD), https://www.oregongeology.org/Landslide/Landslide-Hazards-Land-Use-Guide_FINAL.pdf
- Bunn, M., Leshchinsky, B.A., Olsen, M.J., Calhoun, N.C., Franczyk, J.J., and Burns, W.J., 2019. The Scarp Identification and Contour Connection Method (SICCM): A Tool for Use in Semi-Automatic Landslide Mapping, Oregon, Oregon Department of Geology and Mineral Industries, Special Paper 52 (SP-52), <https://www.oregongeology.org/pubs/sp/p-SP-52.htm>
- Calhoun, N.C., Burns, W.J., Hay, S., Staley, D.M., Kean, J.W., 2019. Post-fire rockfall and debris-flow hazard zonation in the Eagle Creek fire burn area, Columbia River Gorge, Oregon: A tool for emergency managers and first responders, Proceedings of the seventh international conference on debris-flow hazards mitigation, Golden, CO, USA, June 10-13, 2019. <https://dfhm7.csmospace.com/docs/DFHM7ProgramFull.pdf>
- Calhoun, N.C., Burns, W.J., Franczyk, J.J., Monteverde, G., 2018. Landslide hazard and risk study of Eugene-Springfield and Lane County, Oregon, Oregon Department of Geology and Mineral Industries, Interpretive Map Series 60 (IMS-60), <https://www.oregongeology.org/pubs/ims/p-ims-060.htm>
- Perkins, J. P., J. J. Roering, W. J. Burns, W. Struble, B. A. Black, K. M. Schmidt, A. Duvall, and N. Calhoun (2018), Hunting for landslides from Cascadia's great earthquakes, *Eos*, 99, <https://doi.org/10.1029/2018EO103689> Published on 08 August 2018.
- Burns, W.J., Calhoun, N.C., Franczyk, J.J., Lindsey, K.O., Ma, L., 2018. Landslide hazard and risk study of central and eastern Multnomah County, Oregon, Oregon Department of Geology and Mineral Industries, Interpretive Map Series 57 (IMS-57), <http://www.oregongeology.org/pubs/ims/p-ims-057.htm>
- Bauer, J.M., Burns, W.J., Madin, I.P., 2018. Earthquake Regional Impact Analysis for Clackamas, Multnomah, and Washington Counties, Oregon, Oregon Department of Geology and Mineral Industries, Open-File Report O-18-02. <http://www.oregongeology.org/pubs/ofr/p-O-18-02.htm>
- Burns, W.J., Herinckx, H.H., and Lindsey, K.O., 2017. Landslide inventory of portions of northwest Douglas County, Oregon, Oregon Department of Geology and Mineral Industries, Open-File Report O-17-04. Esri geodatabase with internal metadata, external metadata in .xml format, 4 map plates (in both print and onscreen resolutions), scale 1:20,000. <http://www.oregongeology.org/pubs/ofr/p-O-17-04.htm>
- Burns, W.J. and Lindsey, K.O., 2017. Landslide Inventory of Eastern Multnomah County, Oregon Department of Geology and Mineral Industries, Open-File Report O-17-03. <http://www.oregongeology.org/pubs/ofr/p-O-17-03.htm>
- Madin, I.P., Streig, A.R., Burns, W.J., Ma, L., 2017. The Mount Hood Fault Zone—Late Quaternary and Holocene Fault Features, Newly Mapped with High-resolution Lidar Imagery, In Scott, W.E., Gardner, C.A., 2017. Field-Trip Guide to Mount Hood, Oregon, Highlighting Eruptive History and Hazards, U.S. Geologic Survey, Scientific Investigation Report 2017-5022-G, p. 99-110 <https://pubs.usgs.gov/sir/2017/5022/g/sir20175022g.pdf>
- Burns, W.J., Calhoun, N.C., Franczyk, J.J., Koss, R.J., Bordal, M.G., 2017. Estimating Losses from Landslides in Oregon, In De Graff, J.V. and Shakoor, A. (eds.), Landslides: Putting Experience, Knowledge and Emerging Technologies into Practice, AEG Special Publication No. 27, p. 473-482.

- Slaughter, S.L., Burns, W.J., Mickelson, K.A., Jacobacci, K.E., Biel, Alyssa, Contreras, T.A., 2017, Protocol for landslide inventory mapping from lidar data in Washington State: Washington Geological Survey Bulletin 82, 27 p. text, with 2 accompanying ESRI file geodatabases and 1 Microsoft Excel file.
- Burns, W.J., Mickelson, K.A., 2016. Protocol for deep landslide susceptibility mapping: Oregon Department of Geology and Mineral Industries, Special Paper 48. <http://www.oregongeology.org/pubs/sp/p-SP-48.htm>
- DeGraff, J.V., Burns, W.J., McConnell, V., 2016. Landslide Risk Reduction in the United States—Signs of Progress: Environmental & Engineering Geoscience, Vol. XXII, No. 3, August 2016, pp. 225–243
- Burns, W.J., Mickelson, K.A., Madin, I.P., 2016. Improvements in shallow landslide susceptibility mapping in Special Paper 520: Geoscience for the Public Good and Global Development: Toward a Sustainable Future. Geological Society of America Special Paper, p. SPE520-32
- Burns, W.J., Mickelson, K.A., Madin, I.P., 2016. Statewide landslides susceptibility overview map of Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-16-02. <http://www.oregongeology.org/pubs/ofr/p-O-16-02.htm>
- Burns, W.J., Mickelson, K.A., Jones, C.B., Tilman, M.A., Coe, D.E., 2015. Surficial and Bedrock Engineering Geology, Landslide Inventory and Susceptibility, and Surface Hydrography of the Bull Run Watershed, Clackamas and Multnomah Counties, Oregon: Oregon Department of Geology and Mineral Industries, Special Paper 46, 5 map plates. <http://www.oregongeology.org/pubs/sp/p-SP-46.htm>
- Burns, W.J., 2015. Landslide Risk Reduction Projects in Oregon. AEG Landslide Forum, Time to Face the Landslide Hazard Dilemma: Bridging Science, Policy, Public Safety, and Potential Loss, Seattle, WA <http://c.ymcdn.com/sites/www.aegweb.org/resource/resmgr/Events2015/aeg-ls-forum-program-abstrac.pdf>
- Burns, W.J., 2014, Statewide Landslide Information Database for Oregon, release 3.2: Oregon Department of Geology and Mineral Industries, Web: <http://www.oregongeology.org/sub/slido/>
- Burns, W.J., Mickelson, K.A., Stimely, L.L., 2014. Landslide Inventory of Coastal Curry County, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-14-10, 8 map plates Web: <http://www.oregongeology.org/pubs/ofr/p-O-14-10.htm>
- Baum, R.L., Schulz, W.H., Brien, D.L., Burns, W.J., Reid, M.E., Godt, J.W., 2014, Plenary: Progress in Regional Landslide Hazard Assessment—Examples from the USA, in Sass, K., Canuti, P., Yueping, Y. eds., Landslide Science for a Safer Geoenvironment, Vol.1: The International Programme on Landslides (IPL): town, country, Springer International Publishing, p. 21-36. Available at http://link.springer.com/chapter/10.1007%2F978-3-319-04999-1_2
- Burns, W.J., 2014, Statewide Landslide Information Database for Oregon, release 3.1: Oregon Department of Geology and Mineral Industries, Web: <http://www.oregongeology.org/sub/slido/>
- Burns, W.J. and Watzig, R.A., 2014. Statewide Landslide Information Database for Oregon, Release 3: Oregon Department of Geology and Mineral Industries, SLIDO-3.0. Web: <http://www.oregongeology.org/sub/slido/>
- Smith, J.B., Godt, J.W., Baum, R.L., Coe, J.A., Burns, W.J., Lu, N., Morse, M.M., Sener-Kaya, B., and Kaya, M., 2014, Hydrologic monitoring of a landslide-prone hillslope in the Elliott State Forest, Southern Coast Range, Oregon, 2009–2012: U.S. Geological Survey Open-File Report, 2013–1283, 61 p., <http://pubs.usgs.gov/of/2013/1283/>
- Burns, W.J., Mickelson, K.A., Jones, C.B., Pickner, S.G., Hughes, K.L., Sleeter, R., 2013. Landslide hazard and risk study of northwestern Clackamas County, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-13-08, 74 map plates. <http://www.oregongeology.org/pubs/ofr/p-O-13-08.htm>

- Burns, W.J. and Mickelson, K.A., 2013. Landslide Inventory, Susceptibility Maps, and Risk Analysis for the City of Astoria, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-13-05. <http://www.oregongeology.org/pubs/ofr/p-O-13-05.htm>
- Madin, I.P. and Burns, W.J., 2013. Ground motion, ground deformation, tsunami inundation, coseismic subsidence, and damage potential maps for the 2012 Oregon Resilience Plan for Cascadia Subduction Zone Earthquakes: Oregon Department of Geology and Mineral Industries, Open-File Report O-13-06. <http://www.oregongeology.org/pubs/ofr/p-O-13-06.htm>
- Burns, W.J., Duplantis, S., and Jones, C.B., 2013. Landslide Inventory Map of the Harbor Hills Area, Curry County, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-13-02. <http://www.oregongeology.org/pubs/ofr/p-O-13-02.htm>
- Burns, W.J., Mickelson, K.A., Saint-Pierre, E.C., 2013. Landslide inventory maps for the Pittsburg quadrangle, Columbia County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 55, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-055.htm>
- Burns, W.J., Mickelson, K.A., Saint-Pierre, E.C., 2013. Landslide inventory maps for the Vernonia quadrangle, Columbia County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 54, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-054.htm>
- Burns, W.J. and Coe, D.E., 2013. Missoula floods - inundation extent and primary flood features in the Portland metropolitan area, Clark, Cowlitz, and Skamania Counties, Washington, and Clackamas, Columbia, Marion, Multnomah, Washington, and Yamhill Counties, Oregon, in 2013 Esri Map Book, Volume 28. <http://media.esri.com/mapbook/volume28/index.html>
- Burns, W.J., Duplantis, S., Jones, C.B., and English, J.T., 2012. Lidar data and Landslide Inventory Maps of the North Fork Siuslaw River and Big Elk Creek Watersheds, Lane, Lincoln, and Benton Counties: Oregon Department of Geology and Mineral Industries, Open-File Report O-12-07. <http://www.oregongeology.org/pubs/ofr/p-O-12-07.htm>
- Mickelson, K.A., Burns, W.J., 2012. Landslide Hazard and Risk Study of the U.S. Highway 30 Corridor, Clatsop and Columbia Counties, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-12-06. <http://www.oregongeology.org/pubs/ofr/p-O-12-06.htm>
- Burns, W.J., Mickelson, K.A., 2012. Regional hazard maps of the City of Silverton, Marion County, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-12-05. <http://www.oregongeology.org/pubs/ofr/p-O-12-05.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., 2012. Protocol for shallow-landslide susceptibility mapping: Oregon Department of Geology and Mineral Industries, Special Paper 45. <http://www.oregongeology.org/pubs/sp/p-SP-45.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., and Duplantis, S., 2012, Inventory of Landslide Deposits from Light Detection and Ranging (Lidar) Imagery of the Portland Metropolitan Region, Oregon and Washington, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 53, scale 1:63,360. <http://www.oregongeology.org/pubs/ims/p-ims-053.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., and Duplantis, 2012, Landslide inventory maps for the Estacada quadrangle, Clackamas, Marion, and Washington Counties, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 52, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-052.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Redland quadrangle, Clackamas County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 51, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-051.htm>
- Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Sherwood quadrangle, Clackamas, Marion, Washington, and Yamhill Counties, Oregon: Oregon Department of Geology and

- Mineral Industries, Interpretive Map 50, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-050.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., Duplantis, S., and Jones, C. B., 2012, Landslide inventory maps for the Damascus quadrangle, Clackamas and Multnomah Counties, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 49, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-049.htm>
- Burns, W.J., Madin, I.P., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Gladstone quadrangle, Clackamas and Multnomah Counties, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 48, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-048.htm>
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CONFERENCE PRESENTATIONS & POSTERS

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- Struble, W., Roering, J., Black, B., Burns, W., Calhoun, N., Wetherell, L., 2019. Temporal Clustering of Landslide-Dammed Lakes in Western Oregon Using Dendrochronology, Program, Geologic Society of America Cordilleran Section Meeting, Portland, OR, <https://gsa.confex.com/gsa/2019CD/meetingapp.cgi>
- Calhoun, N., Burns, Franczyk, J., 2019. Landslide Hazard and Risk Study in the Cities of Eugene-Springfield, Central Lane County, Oregon, Program, Geologic Society of America Cordilleran Section Meeting, Portland, OR, <https://gsa.confex.com/gsa/2019CD/meetingapp.cgi>
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- Burns, W.J., McCarley, J., Krost, G., 2017. Collaborative Landslide Inventory Mapping in Douglas County, Oregon, Program, Geologic Society of America Annual Meeting, Seattle, WA
- Bunn, M.D., Calhoun, N., Leshchinsky, B. Olsen, M., Burns, W.J., 2017. Incorporating Semi-Automatic Landslide Mapping within an Existing Manual Expert-Based Framework, Program, Geologic Society of America Annual Meeting, Seattle, WA
- Madin, I.P. and Burns, W.J., 2017. Incidental Discovery of Young Gault Features in Oregon Lidar Consortium Lidar Data, Program, Geologic Society of America Annual Meeting, Seattle, WA
- Burns, W.J. and Calhoun, N. 2016. Update to the Statewide Landslide Information Database for Oregon (SLIDO) Release 4.0. Abstracts with Programs, 2016 Geologic Society of America Annual Meeting & Exposition
- Burns, W.J. and Edwards J., 2016. What is the Oregon Lidar Consortium and what do they do with the lidar? Professional Land Surveyors of Oregon 2016 Annual Conference, Eugene, OR
- Burns, W.J., 2015. Collecting and Using Landslide Inventory Data in Oregon. Program, 2015 Geologic Society of America Annual Meeting & Exposition, Baltimore, MD
- Burns, W.J., 2015. Landslide mapping in Oregon and along Oregon's highways, State of the Professions-Looking to the Future, GEO-Environmental Conference, ODOT
- Burns, W.J., 2014. Recent Landslide Hazard and Risk Studies in Oregon. Abstracts with Programs, 2014 Geologic Society of America Annual Meeting & Exposition
- Mickelson, K.A. and Burns, W.J., 2014. Landslide Hazard and Risk of Clackamas County, Oregon. Program with Abstracts, 2014 Association of Environmental and Engineering Geologists Annual Meeting
- Burns, S., Burns, W., Mickelson, K, English, J., and Madin, I. (2013), Risk estimation and reduction of geological hazards with an example from Oregon, USA, in Abstracts with Program, IAEG International Symposium and 9th Asian Regional Conference of IAEG, Beijing, China, 23-25 September 2013, page 14.
- Burns, W.J., Mickelson, K.A., English, J., and Madin, I.P., 2013. Multi-Hazard and Risk Study for the Mount Hood Region, Multnomah, Clackamas, and Hood River Counties, Oregon. Program with Abstracts, 2013 Association of Environmental and Engineering Geologists Annual Meeting, v. 56
- Stimely, L., Burns, W.J., Mickelson, K.A., and Handweg, A.L., 2013. Landslides examined with lidar and insar in the harbor hills region, Oregon. Program with Abstracts, 2013 Association of Environmental and Engineering Geologists Annual Meeting, v. 56
- Mickelson, K.A. and Burns, W.J., 2013. Landslide Hazard and Risk of the US Highway 30 Corridor, Clatsop and Columbia Counties, Oregon. Program with Abstracts, 2013 Association of Environmental and Engineering Geologists Annual Meeting, v. 56
- Madin, I.P. and Burns, W.J., 2013. Cascadia M 9.0 Scenario ground motion and ground deformation maps for Oregon, Abstracts with Programs, Vol. 84, No. 2, p. 359, 2013 Seismological Society of America Annual Meeting
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- Mickelson, K.A. and Burns, W.J., 2012. Landslide Hazard and Risk Evaluation of the US Highway 30 Corridor, Clatsop and Columbia Counties, Oregon, Abstracts with Programs, Vol. 44, No. 7, 2012 Geologic Society of America Annual Meeting & Exposition
- Duplantis, S., Burns, W. J., Madin, I. P., Mickelson, K. A., 2012. Inventory Mapping of Landslide Deposits from LiDAR in the Portland Metropolitan Area, Oregon (abstract), Association of Environmental & Engineering Geologists: Annual Meeting, AEG NEWS, Program with Abstracts, v. 55, p. 54.
- Burns, W.J., 2012. Detecting and Mapping Landslides Using LiDAR, Slope Stability on Pacific Northwest Forested Lands Workshop, Western Forestry and Conservation Association, Tigard, Oregon.
- Burns, W.J., Mickelson, K.A., Saint-Pierre, E.C., 2011. The New and Improved Statewide Landslide Information Database of Oregon, 2011 Geological Society of America Annual Meeting & Exposition Abstracts with Programs, v. 43, no. 5
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- Mickelson, K.A., Burns, S.F., and Burns, W.J., 2010. LiDAR Based Landslide Inventory and Susceptibility Mapping for the Panther Creek Watershed, Coast Range, Oregon, Geologic Society of America Abstracts with Programs Vol. 42, No. 5
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Willamette Valley, Oregon. 100 Anniversary Earthquake Conference: Commemorating the 1906 San Francisco Earthquake. Oral Presentation, Program, p.79

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- Burns, W.J., Fiedorowicz, B.K., 1997. Landslides Inventory and Slope Susceptibility of Forest Park, Portland, Oregon: Proceedings of the Oregon Academy of Science, v.33, p.35
- Burns, W.J., 1996, Soil Chronosequence on Stream Terraces of the Sandy River at Oxbow Park, OR: Proceedings of the Oregon Academy of Science, v.32, p.28-29

EXPERT WITNESS ENGAGEMENTS

Testimony at Jury Trial

- Robert J. and Leslie Gayna Flake vs. Benton County, State of Oregon Circuit Court for the County of Benton, Subpoena April 2013

Testimony at Deposition

- John W. Ericksen and Kathryn C. Ericksen vs. BC Custom Homes Corp., Hidden Lake Development Co., Kent Ziegler, Ronald Ziegler, Forest Lake Development Company Inc., Professional Service Industries, Inc., Earthworks LLC, All Oregon Landscaping, Inc., William Winkenbach, Jody Winkenbach, Lifestyle Realty, State of Oregon Circuit Court for the County of Clackamas, Subpoena December 2008

HONORS & AWARDS

- Geological Society of America, Environmental and Engineering Geology Division, 2020, E.B. Burwell Jr. Award: Landslide Risk Reduction in the United States – Signs of Progress (published in Environmental and Engineering Geosciences in 2016 and authored by Jerry DeGraff, William Burns, and Vicki McConnell).
- Association of Environmental and Engineering Geology 2017 Publication Award, Landslide Risk Reduction in the United States-Signs of Progress (EEG Volume 22, Number 3)

- Geological Society of America, 2016, Certificate of Appreciation in Recognition of Outstanding Contributions to the GSA. Service on the Management Board, 2011-2016.
- Geological Society of America, Environmental and Engineering Geology Division, 2016, Meritorious Service Award.
- Geological Society of America, Environmental and Engineering Geology Division, 2015. Division Chair Berkey Gavel Award.
- Geological Society of America, 2014. Certificate of Appreciation for Outstanding Contributions to the Society. Technical Program for the Annual Meeting.
- Washington State Chapter of the Urban and Regional Information Systems Association – WAURISA, 2013. Best Cartographic Design.
- Geologic Society of America, 2011. GSA Annual Meeting Photo Contest, Honorable Mention, Geologic Process.
- Geological Society of America, 2011. Nominated for the GSA Public Service Award.
- Oregon Department of Geology, 2006. Outstanding Contribution Towards Completion of the Seismic Needs Assessment and Report
- Oregon Department of Geology, 2005. Performance Award

INVITED TALKS

Bretz Club 2021 Bretz Club Mini-Conference: After the Burn: Post-Fire Geomorphology in the PNW
 Association of Engineering Geologist Oregon Section, 2019; Hunting for Cascadia Triggered Landslides
 Geological Society of America Annual Meeting, 2017. Integration Geohazards Data into Planning and Land-
 use Management Decisions; Earthquakes, Faults and Fault Systems in the Pacific NW; Characterizing
 Cascadia's Earthquakes-Reexamining Open Questions about Cascadia Seismic and Tsunami Hazards
 USGS Cascade Volcanic Observatory, Join Landslide Meeting with US and Indonesia, 2016
 Bureau of Land Management, Webinar, Mapping Landslides in Oregon, 2016
 Oregon Prepared, Emergency Preparedness Workshop, 2015
 AEG Landslide Forum on the Oso Landslide, 2015
 Oregon State Legislator, Committee on Natural Resources, 2014
 Science on Tap, 2014, Laser Beams and Landslides
 Geological Society of America Annual Meeting, 2014, The Landslide Multi-Hazard Conundrum
 Association of Engineering Geologist Annual Meeting, 2013, Symposium – Pacific NW Volcanic Hazards
 Oregon Coastal Zone Management Association, 2012
 Ice Age Floods Institute, 2012
 Oregon Geographic Information Council (OGIC), 2012
 Oregon Department of Environmental Quality: Onsite Wastewater Treatment System Program Workshop 2012
 Hood River County: Drinking Water Providers' Workshop, 2012
 Western Forestry and Conservation Association: Slope Stability Workshop, 2012
 Oregon City Community Forum: Landslide Preparedness, 2011
 Portland Office of Emergency Management: Landslide Forum, 2010
 Oregon Office of Emergency Management Association (OEMA): Annual Meeting, 2007
 National Ski Patrol (NSP): Annual Meeting, 2006

PROFESSIONAL TALKS & PRESENTATIONS & PUBLIC OUTREACH

Oregon Seismic Safety Policy Advisory Commission (OSSPAC)
 Chicago Title Insurance Company of Oregon
 The Oregon Geographic Information Council (OGIC)
 Southwest Portland Neighborhoods (SWNI)
 Southwest Portland Hills Neighborhood (SWHRL)
 Bull Mountain CPO4B
 Oregon City
 Astoria
 Silverton
 Lake Oswego
 West Linn
 Portland

Sherwood
Woodburn
Seaside
Sandy
Troutdale
Hood River
Benton County
Clackamas County
Hood River County
Multnomah County
Clatsop County
Wasco County
Lane County
Marion County
Morrow County
Lake County
Harney County
Gilliam County
Wheeler County
Oregon Department of Transportation (ODOT)
Oregon Department of Geology and Mineral Industries Governing Board
Oregon Planners Institute (OPI)
Bureau of Land Management (BLM)
USGS Cascades Volcanic Observatory
Ice Age Floods Institute
Mid-Coast Implementation Ready TMDL Local Stakeholder Advisory Committee
Oregon Coastal Zone Management Association

TV, RADIO, & NEWSPAPER INTERVIEWS

Press Conference, ETART, January 2020 (20 news outlets)

Portland's Channel 2 (KATU)
Portland's Channel 6 (KOIN)
Portland's Channel 8 (KGW)
Portland's Channel 12 (KPTV)
The Statesman Journal, Salem
The Oregonian, Portland
The Clackamas Print, Clackamas Community College
Clackamas Review/Oregon City News
Clatskanie News
The Daily Astorian, Astoria
KAST RADIO ASTORIA
KINK
KEX
KXL
KTRO
Associated Press
The Discovery Channel - Raging Nature: Landslides
The Bend Bulletin, Bend
Oregon Public Broadcast (OPB), Portland and Medford
National Public Radio (NPR)
CNN
Blue Mountain Eagle, Capital Bureau
Portland State University Vanguard

PAPERS, JOURNAL ARTICLES, STUDENT REVIEWS (outside reviewer)

2010 U.S. Geological Survey

2010 Portland State University Thesis (x2)
2011 Geomorphology
2014 Earth Surface Processes and Landforms
2015 GSA Bulletin

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