

Bill Burns, MS, RPG, CEG
Engineering Geologist; Natural Hazards
Section Supervisor, Geologic Survey and
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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

CONTINUING EDUCATION

- Portland State University (PSU), Project Planning and Organization, 2014
- Association of Engineering Geologists (AEG) Short Course, Soil Strength and Slope Stability, 2008
- American Society of Civil Engineers (ASCE) Seminar, Earthquake Induced Ground Motions, 2006

TEACHING EXPERIENCE

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

- Masters student thesis committee member

Graduate Student Advisees

- Diringier, S., 2013-present. MS thesis advisor, Kent State University
- Marshall, M., 2013-2015. MS thesis committee, Portland State University
- Mickelson, K., 2009-2011. MS thesis committee, Portland State University

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, 2013, 2009
Landslides, 2011
- *OASIS Adult Education Program, 2011*
- *Oregon Department of Geology and Mineral Industries:*
Short Course: Protocol for Inventory Mapping of Landslides, 2013, 2014, 2015
- *Association of Engineering Geologists (AEG):*
Short Course: Protocol for Inventory Mapping of Landslides, AEG Annual Meeting, 2013

LICENSES AND REGISTRATIONS

Registered Professional Geologist (RPG), Oregon and Washington
Certified Engineering Geologist (CEG), Oregon and Washington

WORK EXPERIENCE

Oregon Department of Geology and Mineral Industries (DOGAMI), Portland, OR, 2004-present

- Technical lead on landslide hazards
- Landslide geotechnical specialist / engineering geologist
- Principal investigator on projects involving research and creation of methodologies, geologic hazard maps, risk analysis, and report writing and publication
- Grant development and writing
- Chair, DOGAMI Technical Review Committee

GeoStandards Corporation, Portland, OR, 1998-2004

- Senior engineering geologist, project manager, and office manager

Mount Hood National Forest, Gresham, OR, 1996

- Engineering geologist

NTL Engineering and Geoscience, Inc., Great Falls, MT, 1993

- Lab technician and field assistant

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):

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

GRANTS RECEIVED

- 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, 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, \$91,24
- 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

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., 2014, Statewide Landslide Information Database for Oregon, release 3.2: Oregon Department of Geology and Mineral Industries, Web: <http://www.oregongeology.org/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/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/slido/>

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., 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>

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>

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>

Burns, W.J., Mickelson, K.A., Duplantis, S., and Williams, K., 2012, Landslide inventory maps for the Hillsboro quadrangle, Washington County, Oregon: Oregon Department of Geology and

Mineral Industries, Interpretive Map 47, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-047.htm>

Burns, W.J., Mickelson, K.A., Duplantis, S., Spritzer, J.M., and Wells, R.E., 2012, Landslide inventory maps for the Gales Creek quadrangle, Washington County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 46, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-046.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Vancouver quadrangle, Multnomah County, Oregon, and Clark County, Washington: Oregon Department of Geology and Mineral Industries, Interpretive Map 45, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-045.htm>

Burns, W.J., Madin, I.P., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Dixie Mountain quadrangle, Washington, Multnomah, and Columbia Counties, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 44, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-044.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Camas quadrangle, Multnomah County, Oregon, and Clark County, Washington: Oregon Department of Geology and Mineral Industries, Interpretive Map 43, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-043.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Washougal quadrangle, Multnomah County, Oregon, and Clark County, Washington: Oregon Department of Geology and Mineral Industries, Interpretive Map 42, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-042.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Mount Tabor quadrangle, Multnomah County, Oregon, and Clark County, Washington: Oregon Department of Geology and Mineral Industries, Interpretive Map 41, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-041.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Sauvie Island quadrangle, Columbia and Multnomah Counties, Oregon, and Clark County, Washington: Oregon Department of Geology and Mineral Industries, Interpretive Map 40, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-040.htm>

Burns, W.J., Mickelson, K.A., Duplantis, S., and Williams, K., 2012, Landslide inventory maps for the Forest Grove quadrangle, Washington County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 39, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-039.htm>

Burns, W.J., Mickelson, K.A., and Duplantis, S., 2012, Landslide inventory maps for the Sandy quadrangle, Clackamas and Multnomah Counties, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 38, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-038.htm>

Burns, W.J., Mickelson, K.A., Duplantis, S., and Williams, K., 2012, Landslide inventory maps for the Scholls quadrangle, Washington County, Oregon: Oregon Department of Geology and Mineral Industries, Interpretive Map 37, scale 1:8000. <http://www.oregongeology.org/pubs/ims/p-ims-038.htm>

Burns, W.J. and Coe, D.E., 2012. 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, Oregon Department of Geology and Mineral Industries, IMS-36. <http://www.oregongeology.org/pubs/ims/p-ims-036.htm>

Burns, W.J., Hughes, K. B., Olson, K. V., McClaughry, J. D., Mickelson, K. A., Coe, D. E., English, J.T., Roberts, J. T., Lyles Smith, R. R., Madin, I.P., 2012. Multi-Hazard and Risk Study for the Mount Hood Region, Multnomah, Clackamas, and Hood River Counties, Oregon, Oregon Department of Geology and Mineral Industries, Open-File Report O-11-16. <http://www.oregongeology.org/pubs/ofr/p-O-11-16.htm>

Burns, W.J. Madin, I.P., Mickelson, K.A., and Drazba, M.C., 2011. Landslide Inventory Maps for the Linnton Quadrangle, Washington County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-35, Plates 1, 2, 3, 4, 5. <http://www.oregongeology.org/pubs/ims/p-ims-035.htm>

Burns, W.J. and Mickelson, K.A., 2011. Landslide Inventory Maps for the Beaverton Quadrangle, Washington County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-34, Plates 1, 2, 3, 4, 5. <http://www.oregongeology.org/pubs/ims/p-ims-034.htm>

Burns, W.J., Mickelson, K.A., Saint-Pierre, E.C., 2011. Statewide Landslide Information Database of Oregon Release-2, Oregon Department of Geology and Mineral Industries, SLIDO-2

Burns, W.J., Madin, I.P., Mickelson, K.A., and Williams, K.J., 2011. Partial Landslide Inventory of the Western Portion of Coos County, Oregon, Oregon Department of Geology and Mineral Industries, Open-File Report O-11-01. <http://www.oregongeology.org/pubs/ofr/p-O-11-01.htm>

Burns, W.J. and Duplantis, S., 2010. Landslide Inventory Maps for the Portland Quadrangle, Multnomah, and Washington Counties, Oregon, Oregon Department of Geology and Mineral Industries, IMS-33, Plates 1, 2, 3, 4, 5. <http://www.oregongeology.org/pubs/ims/p-ims-033.htm>

Burns, W.J. and Duplantis, S., 2010. Landslide Inventory Maps for the Lake Oswego Quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon, Oregon Department of Geology and Mineral Industries, IMS-32, Plates 1, 2, 3, 4, 5. <http://www.oregongeology.org/pubs/ims/p-ims-032.htm>

Burns, W.J., 2010. Understanding Landslide Deposit Maps. Oregon Geology Fact Sheet. Oregon Department of Geology and Mineral Industries. <http://www.oregongeology.org/pubs/fs/landslide-inv-factsheet.pdf>

Burns, W.J., Coe, J.A., Sener Kaya, B., Ma, L., 2010. Analysis of Elevation Changes Detected from Multi-Temporal LiDAR Surveys in Forested Landslide Terrain in Western Oregon, Environmental and Engineering Geoscience, v. XVI, n. 4, pp. 315-341. <http://landslides.usgs.gov/docs/coe/Burnsetal10Final.pdf>

Burns, W.J. and Mickelson, K.A., 2010. Landslide Inventory Maps for the Astoria Quadrangle, Clatsop, County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-31, Plates 1, 2, 3, 4. <http://www.oregongeology.org/pubs/ims/p-ims-031.htm>

Burns, W.J. and Mickelson, K.A., 2010. Landslide Inventory Maps for the Oregon City Quadrangle, Clackamas, County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-30, Plates 1, 2, 3. <http://www.oregongeology.org/pubs/ims/p-ims-030.htm>

Burns, W.J., 2009. Landslide Inventory Maps for the Canby Quadrangle, Clackamas, Marion, and Washington Counties, Oregon, Oregon Department of Geology and Mineral Industries, IMS-29, Plates 1, 2, 3, 4. <http://www.oregongeology.org/pubs/ims/p-ims-029.htm>

Burns, W.J., 2009. Landslide Inventory Map of the Southwest Quarter of the Beaverton Quadrangle, Washington County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-27. <http://www.oregongeology.org/pubs/ims/p-ims.htm>

Burns, W.J., Madin, I.P., 2009. Landslide Inventory Map of the Northwest Quarter of the Oregon City Quadrangle, Multnomah County, Oregon, Oregon Department of Geology and Mineral Industries, IMS-26. <http://www.oregongeology.org/pubs/ims/p-ims.htm>

Burns, W.J., Madin, I.P., 2009. Protocol for Inventory Mapping of Landslide Deposits from Light Detection and Ranging (lidar) Imagery, Oregon Department of Geology and Mineral Industries, Special Paper 42 <http://www.oregongeology.org/pubs/sp/p-SP.htm>

Burns, W.J., 2008. Regional Landslide Hazard Maps of the Southwest Quarter of the Beaverton Quadrangle, West Bull Mountain Planning Area, Washington County, Oregon. Oregon Department of Geology and Mineral Industries, Open File Report O-08-09. <http://www.oregongeology.org/pubs/ofr/p-OFR.htm>

Burns, W.J., Madin, I.P., Ma, L., 2008. Statewide Landslide Information Database of Oregon Release-1, Oregon Department of Geology and Mineral Industries, SLIDO r-1

Burns, W.J., Hofmeister, R.J., and Wang, Y., 2008. Geologic Hazards, Earthquake and Landslide Hazard Maps, and Future Earthquake Damage Estimates for Six Counties in the Mid-Willamette Valley Including Yamhill, Marion, Polk, Benton, Linn, and Lane Counties and the City of Albany, Oregon, Oregon Department of Geology and Mineral Industries, IMS-24. <http://www.oregongeology.org/pubs/ims/p-ims.htm>

Burns, B., Hinkle, J., Hay, S., 2008, The Woodson Debris Flow, Woodson, Oregon, Association of Engineering Geologist NEWS, March 2008, v. 51, no.1

Burns, W. J., 2007, Comparison of remote sensing datasets for the establishment of a landslide mapping protocol in Oregon. AEG Special Publication 23: Vail, Colo., Conference Presentations, 1st North American Landslide Conference.

Burns, W.J. and Wang, Y., 2007. 2007 Landslide Symposium Proceedings and Field Trip Guide. Oregon Department of Geology and Mineral Industries, Open File Report O-07-04. <http://www.oregongeology.org/pubs/ofr/O-07-06.pdf>

Burns, W.J., and Wang, Y., 2007, A new working group in Oregon: The Oregon Landslide Workgroup (OLW), In 2007 Landslide Symposium Proceedings and Field Trip Guide, Oregon Department of Geology and Mineral Industries, Open File Report O-07-04. <http://www.oregongeology.org/pubs/ofr/O-07-06.pdf>

Burns, W.J., 2007 Comparison of mapping techniques in the Portland hills pilot study area. In 2007 Landslide Symposium Proceedings and Field Trip Guide, Oregon Department of Geology

and Mineral Industries, Open File Report O-07-04. <http://www.oregongeology.org/pubs/ofr/O-07-06.pdf>

Burns, S.F., Burns, W.J., James, D.H., and Hinkle, J.C., 2006. Landslides Geohazard Map for Portland, Oregon, USA, Proceedings of the 10th International Congress, International Association of Engineering Geologists, Conference Paper No. 520, The Geological Society of London.

Madin, I.P. and Burns, W.J., 2006. Map of Landslide Geomorphology of Oregon City, Oregon and Vicinity Interpreted from LIDAR Imagery and Aerial Photographs. Oregon Department of Geology and Mineral Industries Open File Report O-06-27. <http://www.oregongeology.org/pubs/ofr/p-OFR.htm>

Burns, W.J., 2006. USGS Debris Flow Flume at H.J. Andrews Experimental Forest. Oregon Geology, Oregon Department of Geology and Mineral Industries, Fall 2006, Volume 67, Number 1

Madin, I.P. and Burns, W.J., 2006. Pilot Study, Mapping Portland Landslides with LIDAR. Cascadia from the Oregon Department of Geology and Mineral Industries, Fall 2006, Volume 4, Number 2. <http://www.oregongeology.org/pubs/Cascadia/CascadiaFall2006.pdf>

Burns, W.J., 2006. Landslide Hazards in Oregon. Oregon Geology Fact Sheet. Oregon Department of Geology and Mineral Industries. <http://www.oregongeology.org/pubs/fs/landslide-factsheet.pdf>

Wang, Y. and Burns, W.J., 2006. Rapid Visual Screening Program in Oregon, Earthquake Engineering Research Institute Newsletter Volume 40, Number 8

Wang, Y. and Burns, W.J., 2006. Oregon's Recipe for Mitigating Earthquakes. Geotimes, August 2006.

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Conference Presentations/Posters

Burns, W.J., 2015. Collecting and Using Landslide Inventory Data in Oregon. Program, 2014 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., 2015. Landslide Risk Reduction Projects in Oregon. AEG Landslide Forum, Seattle, WA

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

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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

Burns, T.A., Burns, W.J., Lesh, J.T., 2011. Using LiDAR Based High Resolution Topography and GIS to Optimize Hiking Trail Alignment Design, Souter Mountain, Oregon. Proceedings of the 9th Annual Urban Ecology and Conservation Symposium, Urban Ecosystem Research Consortium, p.19.

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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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Burns, W.J., Madin, I.P., Ma, L., 2008. Statewide Landslide Information Database of Oregon Release-1, Geological Society of America Abstracts with Programs, Vol.40, No. 6.

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Burns, W.J., Wang, Y., Hofmeister, R.J., Watzig, R., 2007. Relative earthquake induced hazard maps and identified landslide hazard maps for six counties in the Mid-Willamette Valley including Yamhill, Marion, Polk, Benton, Linn, and Lane Counties, Oregon, In 2007 Landslide Symposium Proceedings and Field Trip Guide. Oregon Department of Geology and Mineral Industries, Open File Report O-07-04.

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Madin, I.P. and Burns, W.J., 2007. Earthquake and landslide hazards at the far ends of the Portland Hills Fault zone, Geologic Society of America, Abstracts with Programs Vol. 39, No. 4

Burns, W.J., Hofmeister, R.J., Wang, Y., LeDuc, A., Sigrist, D., 2006. Geologic Hazard Maps and Risk Assessments in Oregon: FEMA Natural Hazards Mitigation Plans for Six Counties in the

Mid/Southern Willamette Valley, Oregon. 100 Anniversary Earthquake Conference: Commemorating the 1906 San Francisco Earthquake. Oral Presentation, Program, p.79

Wang, Y., Burns, W.J., 2006. Case History on the Oregon GO Bond Task Force: Promoting Earthquake Safety in Public Schools and Emergency Facilities. 100 Anniversary Earthquake Conference: Commemorating the 1906 San Francisco Earthquake. Oral Presentation, Program, p.134

Wang, Y., Burns, W.J., 2005. 2004 Sumatra Earthquake and Tsunami Versus Cascadia Subduction Zone Models. 2005 UNAVCO / IRIS JOINT WORKSHOP, June 9 - 11, 2005. Poster Presentation. <http://www.unavco.net/community/meetings/2005/viewabstract.asp?id=6930>

Wang, Y, Burns, W. 2005. Seismic Site Specific Hazard Studies: DOGAMI's Regulatory Role. ATC-35 Seminar on New Knowledge of Earthquake Hazard in Oregon and Implications for Seismic Design Practice, April 7, 2005, Portland, OR

Burns, S.F., W. Burns, D. James, and J. Hinkle, (1999) Reactivation of ancient landslides in Northwest Oregon from 1996 to 1999. GSA Abstracts with Programs, Pg. A287

Burns, S.F., Burns, W.J., James, D.H., and Hinkle, J.C., 1998. Landslides in Portland, Oregon: Processes, Damages, Remediation, and Resulting Land Use Planning. Association of Engineering Geologists, Programs with Abstracts, 41st Annual Meeting, p. 81

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Burns, S.F., Burns, W.J., James, D.H., and Hinkle, J.C., 1998. Landslide Mapping in Portland, Oregon: Processes, Causes, Damages, Remediation, and Resulting Land Use Planning: Proceedings of the Oregon Academy of Science, v.34, p.26

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 and AWARDS

- 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.
- 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

- 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, AND PUBLIC EDUCATION

- 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, NEWSPAPER, AND RADIO INTERVIEWS

- 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
- 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, Portland
- National Public Radio
- CNN
- Blue Mountain Eagle, Capital Bureau

- Portland State University Vanguard

PAPER, JOURNAL ARTICLE, AND STUDENT REVIEWS (OUTSIDE REVIEWER)

- 2010 U.S. Geological Survey
- 2010 Portland State University Thesis
- 2010 Portland State University Thesis
- 2011 Geomorphology
- 2014 Earth Surface Processes and Landforms
- 2015 GSA Bulletin

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