

## BIOGRAPHICAL SKETCH - CHRIS GOLDFINGER

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences (CEOAS)

### A. PROFESSIONAL PREPARATION:

• Humboldt State University	Geology	B.A.	1980
• Humboldt State University	Oceanography/Marine Geology	B.S.	1980
• Oregon State University	Structural Geology	M.S.	1990
• Oregon State University	Oceanography/Marine Geology	Ph.D.	1994

### B. APPOINTMENTS

• Professor of Oceanography			
7/10-present			
• Associate Professor of Oceanography			
5/02-7/10			
• Assistant-Associate Professor of Oceanography (Senior Research)		4/95-5/02	
• Consultant (Earthquake Hazards)		4/94-present	
• Post-Doctoral Research Associate, Oregon State University		3/94-4/95	
• Research Assistant, Oregon State University		4/89-3/94	

### C. PUBLICATIONS

#### *Most Closely Related to Proposed Project*

- 2013 Goldfinger, C., Morey, A., Black, B., Nelson, C.H., Spatially Limited Mud Turbidites on the Cascadia Margin: Segmented Earthquake Ruptures? Nat. Hazards and Earth Syst. Sci., v. 13, 2109-2146.
- 2013 Morey, A.E., Goldfinger, C., Briles, C.E., Gavin, D.G., Colombaroli, D., Kusler, J.E., Are great Cascadia earthquakes recoded in sedimentary records from small forearc lakes? Nat. Hazards Earth Syst. Sci., v. 13, p. 1-23.
- 2012 Goldfinger, C., Yeats, R.S., Ikeda, Y., Superquakes and Supercycles, Seismological Research Letters, v. 84, no. 1, p. 24-32.
- 2012 Morey, A. E., Goldfinger, C., Briles, C. E., Gavin, D. G., Colombaroli, D., and Kusler, J. E., in press 2012, Potential Lacustrine Records of Cascadia Great Earthquakes, *in* Pantosti, D., Gracia, E., Lamarche, G., Nelson, C. H., and Tinti, S., eds., Research Conference Submarine Paleoseismology: The Offshore Search of Large Holocene Earthquakes: Obergurgl, Austria, Natural Hazards and Earth System Sciences.
- 2012 Goldfinger, C., Nelson, C H, , Morey, A, Johnson, J.E., Gutierrez-Pastor, J, Eriksson, A.T., Karabanov, E, Patton, J, Gracia, E, Enkin, R, Dallimore, A, Dunhill, G, Vallier, T, and the Shipboard Scientific Parties, Turbidite event history: methods and implications for Holocene paleoseismicity of the Cascadia Subduction Zone. US Geological Survey Professional Paper 1661-F. <http://pubs.usgs.gov/pp/pp1661f/>
- 2011 Goldfinger, C., Submarine Paleoseismology Based on Turbidite Records: Annual Review of Marine Science, v. 3, p. 35-66.

#### *Other Significant Publications*

- 2012 Witter, R., Shang, Y., Wang, K., Goldfinger, C., Priest, G.R., Allan, J.C., in review, Coseismic slip on the Cascadia megathrust implied by tsunami deposits in an Oregon lake, J. Geophys. Res., v. 117, no. B10, p. B10303.

- 2009 Nelson, C.H., Escutia, C., Goldfinger, C., Karabanov, E., Gutierrez-Pastor, J., and De Batist, M., *External controls on modern clastic turbidite systems: three case studies*, in Kneller, B., Martinsen, O.J., and McCaffrey, W., eds., Society for Sedimentary Geology Special Publication, Volume 92: London, Society for Sedimentary Geology, p. 57-76.
- 2009 Goldfinger, C., Subaqueous Paleoseismology, in McAlpin, J.P., ed., Paleoseismology, Volume 95: International Geophysics Series: Amsterdam, Elsevier, p. 119-170.
- 2008 Goldfinger, C., Grijalva, K., Burgmann, R., Morey, A.E., Johnson, J.E., Nelson, C.H., Gutierrez-Pastor, J., Karabanov, E., Chaytor, J.D., Patton, J., and Gracia, E., 2008, Late Holocene Rupture of the Northern San Andreas Fault and Possible Stress Linkage to the Cascadia Subduction Zone, *Bull. of the Seismological Society of America*, v. 98, p. 861-889.
- 2000 McCaffrey, R., Long, M., Goldfinger, C., Nabelek, J., Johnson, C., Zwick, P., and Smith, C., Rotation and plate locking at the southern Cascadia subduction zone: Geophysical Research Letters, v. 27, p. 3117-3120.

#### D. SYNERGISTIC ACTIVITIES

- Participant in local and regional programs public talks and with local media in earthquake education and preparedness including: the OSU Foundation, local and State entities including the Oregon Seismic Safety Commission, Oregon House and Senate committees on ocean policy and emergency management, Keynote talk at DaVinci Days, 2009, local school boards, and the Oregon Ocean Policy Advisory Council, hosted Teacher at Sea on 2009 NSF cruise.
- Participant in twelve documentary films by Oregon Sea Grant (Oregon margin, 2004), the BBC (Sumatra tsunami, 2005), Global Net Productions (The Hidden Fire, Cascadia earthquakes, 2003), NOVA ("The Wave that Shook the World" Sumatra tsunami, 2005), The American Museum of Natural History (earthquakes, 2005), the History Channel (tsunami, 2005-2006), Discovery Channel (earthquake and tsunami, 2007), Cascadia the Hidden Fire (2007), History Channel, 2008 (Mediterranean megatsunami, 2008), BBC (San Andreas Fault, 2008), CBC documentary "Shockwave", 2009, "Monster Quake, are we next?", Discovery Channel, and Mega Quake, National Geographic. Live interviews and discussion of earthquake and tsunami broadcast on CNN's "Wolf Blitzer" program (3 occasions), German Television "Der Spiegel", Discovery Channel, Discovery Canada, local station KVAL, local radio stations and NPR.
- National Seismic Hazards Workshops, 2006, 2009, 2011, 2012.
- Margins-Geoprisms Distinguished Lecturer Program Speaker, 2009-2012.
- Advisor to Oregon Seismic Safety Policy Advisory Commission (OSSPAC), 2011-Present.

#### E. COLLABORATORS AND OTHER AFFILIATIONS

i) Collaborators past 48 months – J. Allen (DOGAMI), C. Ammon (Penn State), A. Asioli (U. Barcelona), J. Austin, (UTIG), N. Bangs (UTIG), A. Baily (Terralogic), A. Baptista (OSU), K. Berglar (BGR); B. Black (OSU), R. Briggs (USGS), C. Briles (Monash), R. Burgmann (UC Berkeley), J. Chaytor (USGS), M. Chlieh (Nice), D. Colombaroli (U. Bern), S. Copps (NOAA), A. Dallimore (PGC), E. Davis (PGC), Y. Djajadihardja (BPPT); G. Dunhill (Cal. Hayward), R. Enkin (PGC), M. Erhardt (OSU) A. Eriksson (Cont. Energy), C. Escutia (U. Granada), D. Fisher (Penn State), D. Franke (BGR); J. Garcia-Orellana (U. Barcelona), A. Garrett (OSU), D. Gavin (UO), Grijalva, K. (UC Berkeley), J. Gutierrez-Pastor (U. Granada), M. Gutscher (IFREMER), C. Gaedicke, E. Gracia (CSIC), Greene, G. (SJSU), S. Gulick (UTIG), T. Henstock (U. Southampton), Y. Ikeda (U. Tokyo); K. Ikehara (AIST), Johnson, J.E. (UNH), M. Kamerling, E. Karabanov (Chevron), A. Kent (OSU), F. Klingelhoefer (IFREMER), J. Kusler (UO), H. Kopp (Geomar); R. Kulkarni (URS), S. Ladage (BGR), M. Legg (Legg Geophysical), S. Lebreiro (IGME-Geological Survey of Spain). McNeill (NOCS), M. Meiner (UH), A. Morey (OSU), A. Mix (OSU), D. Mosher (Can. Geol. Survey), J. Nabelek (OSU), D.H. Natawidjaja (LIPI), A.R.. Nelson (USGS), H. Nelson (U. Granada), R. Pallas (U. Barcelona), G. Parkes (MRAG Americas), J. Patton (OSU). H. Permana (LIPI); G. Priest (DOGAMI), C.P.Rajendran (CESS), K. Rajendran (CESS), C. Rangin, (CNRS), A. Rodes (U. Barcelona), M. Salisbury (OSU), J.C. Sibuet (IFREMER), K. Sieh (Nanyang Tech. Univ.), S. Singh (IPGP), J. Stoner (OSU), E. Thomas (Yale); T. Vallier (retired), Vizcaino, A. (CSIC), W. Wakefield (NOAA), Kelin Wang

(Geol. Surv. Can.), R. Wynn (NOCS), R. Witter (USGS), I. Wong (URS), R.S. Yeats (OSU), M. Yoklavich (NOAA), J. Zachariasen, (URS), J. Zhang (OHSU).

ii) Graduate Advisors and Postdoctoral Sponsors –  
MS Thesis Advisor - Robert Lawrence (OSU)  
PhD Thesis Advisor - R.S. Yeats (OSU)  
Postdoctoral Advisor - LaVerne D. Kulm (OSU)

iii) Students advised (Graduate): 16 total; (committee member) 18 total. Undergraduate projects and internships directed: 13 total.