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EDUCATION

Ph.D. 1999	**University of Nevada, Reno,** Hydrogeology
M.S. 1984	**University of California, Los Angeles**, Geophysics and Space Physics
B.S. 1981	**California State Polytechnic University**, Physics

PROFESSIONAL EXPERIENCE

2012-present	**Professor,** Oregon State University
2005-2011	**Associate Professor,** Oregon State University
1999-2005	**Assistant Professor,** Oregon State University
1992-1995	**Instructor,** Shasta College, Redding, CA
1989-1991	**Instructor,** California State University, Chico, CA
1984-1989	**Member of Technical Staff**, Jet Propulsion Laboratory, NASA, CA
1975-1981	**Scientist I, II**, Jet Propulsion Laboratory, NASA, CA

PROFESSIONAL ACTIVITIES

- Director, Soil Science Graduate Program
- Teaching (Environmental Soil Physics (undergrad); Soil Physics (MS, PhD); Vadose Zone Hydrology Laboratory (MS)
- Assist. Editor Vadose Zone Journal (2006-2012)
- Grant panel member (USDA NRI – 2004, 2005, 2011; NSF – 2005)
- Manuscript reviewer (WRR, VZJ, SSSJ,Geoderma, ASABE)
- Member of ASA, GSA, AGU
- Committee chair and member: ASA Don and Betty Kirkham Soil Physics Mid-Career Award, ASA Early Career Award

GRANTS RECEIVED

1. (2012) Honors College DeLoach Undergraduate Work Scholarship ($2000)
2. (2011) OSU LL Steward Faculty Development Award ($2000)
3. (2010) College of Agricultural Sciences Equipment Award ($16000)
4. (2010) USDA-AFRI "Plants Need Water" ($320,000)
5. (2008) US-AID "Quantifying and Managing Aquifer Salinization" ($199,999)
6. (2008) US-Israeli BSF "Water and Salt Dynamics" ($180,000)

PUBLICATIONS (last 4 years)

1. Dragila. M. I., K. M. Hay, and S. W. Wheatcraft. 2015. Initial pipe development within epikarst microfractures. The Geological Society of America, Special Paper. SP-516-10
2. Woolverton*, P. and M.I. Dragila. 2014. Characterization of hydrophobic soils: a novel approach using mid-infrared photoacoustic spectroscopy. Applied Spectroscopy, 68 (12), 1407-1410. doi:10.1466/14-07450

3. Dragila, Maria I., Uri Nacshon, and Noam Weisbrod, Fractures as advective conduits at the earth-atmosphere interface, AGU Special Issue 'Dynamics of Fluids and Transport in Fractured-Porous Media' Ed. Boris Faybishenko. Accepted Dec 2013, to be published in 2014.
4. Weisbrod, Noam, Uri Nachshon, Maria I. Dragila and Avrami Grader, 2014, Micro-CT analysis to explore salt precipitation impact on porous media permeability, Ch 20 in E. L. Mercury et. al, Eds, Transport and Reactivity of Solutions I Confined Hydrosystems, Nato Science for Peace and Security Series C: Environmental Security, DOI 10.1007/978-94007-7534-3_20,Springer Science, Business Media Dordretch 2014.
5. Gray*, M, Johnson, MG, Dragila, MI, Kleber, M, 2014, Water Uptake in biochars: The roles of porosity and hydrophobicity. Biomass and Bioenergy, 61,196-205, doi:10.1016/j.biombio.2013.12.010
6. Ganot*, Y, M. I. Dragila, N. Weisbrod. 2014. Impact of thermal convection on CO2 flux across the earth-atmosphere boundary in high-permeability soils, Agricultural and Forest Metrology,184, 12-24, doi:10.1016/j.agroformet.2013.09.001
7. Ganot*, Y, Dragila, MI, Weisbrod, N, 2013, Impact of thermal convection on CO_2 flux across the earth-atmosphere boundary in high-permeability soils, Agricultural and Forest Metrology,184, 12-24, doi:10.1016/j.agroformet.2013.09.001
8. Ganot*, Y., M. I. Dragila, et al. (2012). "Impact of thermal convection on air circulation in a mammalian burrow under arid conditions." Journal of Arid Environments 84: 51-62.
9. Kizito, F., M. I. Dragila, et al. (2012). "Hydraulic redistribution by two semi-arid shrub species: Implications for Sahelian agro-ecosystems." Journal of Arid Environments 83: 69-77.
10. Nachshon, U., M. Dragila, et al. (2012). "From atmospheric winds to fracture ventilation: Cause and effect." Journal of Geophysical Research-Biogeosciences 117.
11. Nachshon*, U., S.Ebrahim*, D. Or, M. Dragila and N. Weisbrod. 2011. (accepted Nov 9, 2011). Infrared thermography of evaporative fluxes and dynamics of salt deposition on heterogeneous porous surfaces. Water
12. Nachshon*, U., N. Weisbrod, M.I. Dragila and A. Grader. 2011. Combined evaporation and salt precipitation in homogeneous and heterogeneous porous media, Water Resources Research, 47, W03513, doi:10.1029/2010WR009677.
13. Ochiai*, N., J.L. Parke and M.I. Dragila. 2011. Pattern swimming of Phytophthora citricila zoospores: An example of microbial bioconvection, Fungal Biology, 115:228-235.
14. Warren*, J., M, R. Brooks, M.I. Dragila and F.C. Meinzer. 2011. In situ separation of root hydraulic redistribution of soil water from liquid and vapor Transport, Oecologia, 166(4):899-911, doi:10.1007/s00442-011-1953-9
15. Ochiai*, N. M. I. Dragila and J.L. Parke. 2010. 3D tracking of colloids at the pore-scale using epifluorescence microscopy, Vadose Zone Journal, 9(3):576-587. Cover page article, doi: 10.2136/vzj2009.0047