

## **JAMES E. PIZZUTO – Biographical Sketch**

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### **PROFESSIONAL PREPARATION**

Carleton College, BA (geology), 1975

University of Minnesota, Minneapolis, Ph.D (hydrogeology), 1982.

### **APPOINTMENTS**

2013: Bernstein Geologist-in-Residence, Carleton College, Northfield, MN

2009-Present: Affiliated Faculty, Univ. of Delaware Environmental Institute

2007-Present: U. of Delaware, Department of Geography, Joint Appointment

2006-2007 Visiting Professor, Department of Geography and Environmental Engineering, Johns Hopkins University

2004-2006 Research Associate, Patrick Center for Environmental Research, Academy of Natural Sciences, Philadelphia, PA

2001-2006, 2012-2014 Chair, Department of Geology, University of Delaware

2000-2001 Acting Chair, Department of Geology, University of Delaware

1999-Present Professor, Department of Geological Sciences, University of Delaware

1987-1999: Associate Professor, Department of Geology, University of Delaware

1982-1987: Assistant Professor, Department of Geology, University of Delaware

### **SELECTED PUBLICATIONS**

Pizzuto, J., in press, Suspended sediment and contaminant routing with alluvial storage: new theory and applications. *Geomorphology* (invited research article).

Metzger, Tara L., Pizzuto, J. E., Trampus, S. M., Friedman, J. M., Schook, D. M., in press, Event-scale floodplain accretion revealed through tree-ring analysis of buried Plains Cottonwoods, Powder River, M.T., U.S.A. *Earth Surface Processes and Landforms*

Pizzuto, J., O'Neal, M.A., Narinesingh, P., Skalak, K., Jurk, D., Collins, S., Calder, J., 2018, Contemporary fluvial geomorphology and suspended sediment budget of the partly-confined, mixed bedrock-alluvial South River, Virginia, U.S.A. *Geological Society of America Bulletin*. doi: 10.1130/B31759.1.

Pizzuto, J., Keeler, J., Skalak, K., and Karwan, D., 2017, Storage filters upland suspended sediment signals delivered from watersheds. *Geology*, 45:151-154.

Pizzuto, J., Skalak, K., Pearson, A., and Benthem, A., 2016, Active overbank deposition during the last century, South River, Virginia. *Geomorphology*, 257:164-178.

Pearson, A.J., and Pizzuto, J., 2015, Bedload transport over run-of-river dams, Delaware, U.S.A. *Geomorphology*, 248:382-395. DOI:10.1016/j.geomorph.2015.07.025

Karwan, D.L., Siegert, C.M., Levia, D. F., Pizzuto, J., Marquardt, J., Aalto, R., Aufdenkampe, A.K., 2015, Beryllium-7 wet deposition variation with storm height, synoptic classification, and tree canopy state in the mid-Atlantic U.S.A. *Hydrological Processes*. DOI:10.1002/hyp.10571.

- Pizzuto, J.E., 2014, Long term storage and transport length scale of fine sediment: Analysis of a mercury release into a river. *Geophysical Research Letters*, 41, doi:10.1002/2014GL060722.
- Pizzuto, J.E., and 10 others, 2014, Characteristic length scales and time-averaged transport velocities of suspended sediment In the Mid-Atlantic Region, U.S.A. *Water Resources Research*. 50:1-12, doi:10.1002/2013WR014485
- Pizzuto, J.E., 2012, Predicting the accumulation of mercury-contaminated sediment on riverbanks: An analytical approach. *Water Resources Research*, 48, W07518, doi:10.1029/2012WR011906
- Pizzuto, J.E., and O’Neal, M.O., 2009. Increased mid-20th Century river bank erosion rates related to the demise of mill dams, South River, Virginia. *Geology*, 37:19-22.

### **SELECTED SYNERGISTIC ACTIVITIES**

- 2019, Reviewer, Dept. of Geoscience, U. Montana-Missoula
- 2017-present – Member, AGU Leadership Development/Governance Committee
- 2016-2017 – Powell Center Research Group Member: Hydrogeomorphic controls of water quality in the Nation’s rivers
- 2015-2016 – Board member, AGU Thriving Earth Exchange
- 2015-2016 – President, AGU Focus Group Earth and Planetary Surface Processes
- 2013 - 2014 – President-Elect, AGU Focus Group Earth and Planetary Surface Processes
- April, 2012 – Review Team Member, U. of Maine Dept. of Earth Sciences
- Oct., 2011 – NSF GLD sponsored Sustainable Energy Pathways Workshop
- June, 2010 – NSF Panel Member, Water Sustainability and Climate
- May, 2008 – Review panel member for NSF Sponsored Science and Technology Center “National Center for Earth Surface Dynamics”, University of Minnesota
- 2005 – Invited member, National Center for Earth Surface Dynamics sponsored “National Workshop on Sediment Remobilization in Active and Abandoned Reservoirs”, Torrey Utah, March 2005.
- 2004 – 2005 – NSF Panel Member, Geomorphology and Land Surface Dynamics
- 2002-2010 - Editor’s Choice Advisor, American Geophysical Union
- 1985-2010 – Member, AGU Erosion and Sedimentation Committee
- 2000-2002 – Invited member of the NCEAS working group “Ecological Consequences of Altered Hydrological Regimes”, (resulting publications in *Bioscience*, *Ecosystems*, and *Yale Forestry and Environmental Science Bulletin*)
- 1999 – Fellow, Geological Society of America

**RECENT COLLABORATORS:** R. Aalto (U. Exeter, UK), J. Czuba (V. Tech), J. Friedman (USGS), J. Harvey (USGS), J. Kan (SWRC), D. Karwan (U. Minn.), J. Moody (USGS), M. O’Neal (UD), K. Skalak (USGS)

**GRADUATE ADVISORS:** Roger LeB. Hooke (retired), Gary Parker (U. of Illinois)

**GRADUATE STUDENTS, POST-DOCS (last 5 years):** LeBivic (postdoc), S. Trampush (postdoc), T. Metzger (MS), K.McCarthy (MS), J. George (MS), A. Pearson (PhD), M. Christie (PhD), D. Jurk (M.S.), D. Karwan (NSF Post Doc. Fellow), M. Orefice (MS), B. O’Neill (MS), adviser for 26 graduating M.S. and 10 Ph.D students since 1982.