

**L. Allan James, Ph.D.**  
**CURRICULUM VITAE**

November, 2018

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**EDUCATION**

**Ph.D. in Geography and Geology** (held jointly), *Univ. Wisconsin, Madison*, 1988.

Dissertation: “*Historical transport and storage of hydraulic mining sediment in the Bear River, California.*” Dissertation advisors: James C. Knox (Geography) and David M. Mickelson (Geosciences); 284pp.

**M.S. in Geography**, *Univ. Wisconsin, Madison*, 1983. Thesis: “*Post-flood channel adjustments in the upper Kickapoo River, Southwest Wisconsin.*” Advisor: Jim Knox

**M.S. in Water Resources Management**, *Univ. Wisconsin, Madison*, 1981. Advisor: Knox.

**B.A. in Geography**, *Univ. California, Berkeley*, 1978.

**PROFESSIONAL APPOINTMENTS & AFFILIATIONS**

**Distinguished Professor Emeritus.** Geography Dept., Univ. South Carolina. 2018-present.

**Professor of Geography with Tenure.** Geography Dept., Univ. South Carolina. 2007-2018.

**Director, BioGeomorphology Laboratory**, 1989-2018. <http://people.cas.sc.edu/ajames/Lab/Lab.html>

**Senior Associate**, Environment and Sustainability Program, USC, 2010-2018

**Associate Professor with Tenure.** Geography Dept., USC, 1993-2006.

**Assistant Professor.** Geography Dept., USC. 1988-1993.

**AWARDS, HONORS, and ELECTED POSITIONS**

Distinguished Career Award, *Southeastern Div. American Assn. Geographers (SEDAAG)*.  
Nov., 2018.

Executive Committee of the *International Association of Geomorphologists (IAG)*, April, 2018  
to present. Appointed by Mauro Soldati, Chair, IAG.

Distinguished Career Award. Water Resources Specialty Group, Association of American  
Geographers. 2018.

USA Representative to IAG, April, 2017 to Oct., 2021. Elected by Geomorphology Specialty  
Group of the Amer. Assn. Geographers (AAG).

### ***AWARDS, HONORS, and ELECTED POSITIONS (continued)***

Elsevier, "Certificate for Highly cited Research," 2014 to June, 2016. "Legacy sediment: Definitions and processes of episodically produced anthropogenic sediment," *Anthropocene*.

Grove Karl Gilbert Award for Excellence in Research. Geomorphology Specialty Group, American Assn. Geographers (AAG). 2015.

University South Carolina Tenure and Promotions Committee. Elected, 2014-2015.

Faculty Senate, University South Carolina. Elected, 2010-2013.

National Councilor, AAG. Elected, 2009-2012.

Dean's Academic Planning Committee, College Arts and Sciences, USC, elected, 2010-2012.

Honors Committee, AAG. Elected, 2006-2008.

Panelist, Quaternary Geology and Geomorphology (QG&G) Division, *Geological Society of America*. Elected, 2005-2007.

Vice President, *Southeastern Div. A.A.G.* (SEDAAG). Elected, 2002-2004.

Chair, *Water Resource Specialty Group* (WRSG), AAG. Elected, 2002-2004.

Secretary/Treasurer, WRSG, AAG. Elected, 2000-2002.

Secretary, SEDAAG. Elected, 1998-2000.

South Carolina State Representative, SEDAAG. Elected, 1996-1998.

Chair, *Geomorphology Specialty Group*, AAG. Elected, 1995-1996.

Secretary/Treasurer (elected), *Geomorphology Specialty Group*, AAG. Elected, 1994-1995.

Faculty Senate, University South Carolina. Elected, 1990-1992.

South Carolina State Representative, SEDAAG. Elected, 1990-1992.

Nystrom Competition Finalist. AAG national mtg. Ph.D. paper competition, 1988.

### ***TEACHING EXPERIENCE***

Geography Dept., Univ. South Carolina, 1988 to 2018 (course list below).

Geography Dept., Univ. Georgia, Athens. 1987-1988. Weather and Climate; Soils.

Geography Dept., Univ. Oregon, Eugene. Summer, 1987. Weather and Climate; Geomorphology.

Geology Dept., Univ. Calif., Davis. Summer field camp; Sierra Nevada. 1996.

Geography Dept., Univ. Wisconsin, Madison. Fall, 1986.

Geog. Dept., Univ. Wisc. Center, Rock Co. Spring, 1985.

Geog. Dept., Univ. Wisconsin, Madison. Lab Instructor/Teaching Assistant, 1978-1984.

### **Courses Taught:**

Introduction to Physical Geography; Physical Geography (w/labs); Landform Geography (w/labs); Weather and Climate (w/labs); Introduction to Physical Geography (survey); Soils & Vegetation (w/labs).

### **Courses Taught** (continued):

*Intermediate Level, Undergraduate:* Water as a Resource; Geomorphology.

*Senior & Graduate Level:* Water & Watersheds; Watershed Hydrology; Fluvial Geomorphology; Floodplain & Watershed Mgt.; Geospatial Analysis and Geomorphic Mapping; Human Impacts on Fluvial Systems; Structure from Motion (SfM) with small Unmanned Aerial Systems (sUAS); Lab and Field Methods in Physical Geography; Modeling Hydrologic & Geomorphic Systems; Geomorphology from Space.

## **GRANTS**

### **Externally Funded Research Grants**

NSF RAPID Research. *Patterns of Fluvial Sedimentation and Geomorphic Change Following an Extreme Flood Event*. PI: Allan James. CoPI: John Kupfer, Subcontractors: Frank Magilligan (Dartmouth) and Scott Lecce (East Carolina). Post-doc: James Dietrich (Dartmouth). \$49,341; January - May, 2016.

Yuba County Water Authority. *Historical Geomorphic and Land Use / Land Cover Reconstructions for the Lower Yuba River Based on Remote Sensing*. \$59,895. PI. 2011.

National Science Foundation, *Binghamton Geomorphology Symposium: Geospatial Technologies and Geomorphological Mapping*. #0924719. \$23,303. PI. 2010.

U.S. Geological Survey. *Establishing a multi-agency stewardship program for the National Hydrographic Database (NHD) in South Carolina, Part II*. G10AC00188, \$50,000. PI, with Michael Hodgson, 2009.

U.S. Geological Survey. *Establishing a multi-agency stewardship program for the National Hydrographic Database (NHD) in South Carolina, Part I*. G09AC00497, \$50,000. PI, with Michael Hodgson, 2008.

Richland Co., Dept. Public Works. *Environmental Assessment of Stormwater Infrastructure*. Co-PI (PI: Liv M. Haselbach, Civil & Env. Engineering, USC). USCERA proposal 15520-08-17148. \$20,000, 2007-2008.

National Science Foundation. *Tracking Hydraulic Mining Sediments from the Sierra Piedmont into Flood Bypasses of the Sacramento Valley, California*. Collaborative Research; Co-PI with Univ. Calif. Santa Barbara (M. Singer & T. Dunne) and Univ. Washington (R. Aalto); PI of USC portion; \$79,310. NSF BCS 0520933. 2005 - 2008.

South Carolina Dept. Health and Environmental Control. \$98,840; Co-PI with John Dean, Hank McKellar, and Greg Carbone. *Rainfall-runoff relationships in the Colonel Creek watershed*. 1997-99.

South Carolina National Guard. \$30,000 with John Dean, Hank McKellar, and Greg Carbone, *Heavy metals in sediments of the Mill Creek and Colonel Creek watersheds*; 1996-98.

South Carolina Dept. Health and Environmental Control. \$104,000, Co-PI with John Dean, Hank McKellar, and Greg Carbone, *Rainfall-runoff relationships in the Mill Creek watershed*. 1996-97.

### ***Externally Funded Research Grants*** (continued)

- National Science Foundation. \$15,230 for CoPI subaward. PI: John Harbor (Purdue)  
*Reconstructing spatial patterns of glacial erosion: A new approach using cosmogenic  
nuclides*. 1996-1998.
- National Science Foundation. \$24,000. *Mississippi River Flood Sedimentation*. Co-PI with B.  
Gomez (ISU), F. Magilligan (Dartmouth), and J. Phillips (E. Carolina). 1994.
- Assn. American Geographers Research Grant, \$500. PI. *Repeat Photography*. PI. 1993.
- South Carolina Water Resources Commission, *Delineation and Digitization of Drainage  
Divides*. Spring, \$15,000. PI. 1992.
- Research Experiences for Undergraduates (REU). National Science Foundation, Geography and  
Regional Science Program. Addendum to: *Hydraulic mining sediment in the Bear and South  
Yuba rivers, California*. NSF Grant #SES-8822436. To October, \$2,700. PI. 1990.
- Southeast Regional Climate Center. *Use of Geographic Information Systems in Climate Impact  
Analysis*. \$31,536. Co-PI with G. Carbone. 1990.
- National Science Foundation, Geog. and Regional Science Program. *Hydraulic mining sediment  
in the Bear and South Yuba rivers, Calif.* NSF #SES-8822436. \$45,000. PI. 1989-90.

### **Externally Funded Education Enhancement & Travel Grants**

- South Carolina Space Grant Consortium. *Geomorphology from Space*. Curriculum development.  
\$4,000. 1995.
- American Geophysical Union, *INQUA Travel Grant*, International Union for Quaternary  
Research (INQUA), Beijing, People's Republic of China. \$1500. August, 1991.
- U.S. Geological Survey and NSF, Faculty Enhancement Program in Water Resources and  
Hydrology; stipend and tuition. 1990.

### **Internal Grants (USC)**

- Mapping River Erosion and Geomorphic Change Caused by an Extreme Flood. *Office of the  
Vice President for Research, USC*. Proposal # 13540-16-40826. \$12,143, PI. 2016.
- 37<sup>th</sup> International Binghamton Geomorphology Symposium. *The Human Role in Changing  
Fluvial Systems*, Vice Presidents Office of Research, USC. #13540-06-12680. \$15,000. PI.  
2006.
- Research and Productive Scholarship Grant. *Sediment storage potential of the southern Coastal  
Plain*. Univ. South Carolina Grant #13540 E132; \$2400. PI. 1989.

## ***BOOKS AND PROCEEDINGS VOLUMES***

- James, L.A., C. Harden, and J. Clague (Eds.) 2013. Geomorphology of Human Impacts, Climate Change, and Natural Hazards. Vol. 13, *Treatise on Geomorphology*, J. Shroder (Ed. in Chief); Elsevier. 301pp.
- James, L. A., S. Walsh, and M. P. Bishop (Eds.) 2012. Geomorphic Mapping and Spatial Analysis. Proc. 41<sup>st</sup> Annual Binghamton Geomorphology Symposium; Columbia, SC, Oct. 15-17, 2010. N.Y.: Elsevier; 198 pp.
- James, L. Allan. 2012. Landform Geography: Laboratory Exercises. Kendall-Hunt, Pub. Co.
- James, L. A., Rathburn, S. L., and Whittecar, G. R. (Eds.) 2009. Management and Restoration of Fluvial Systems with Broad Historical Changes and Human Impacts: Geological Society of America Special Paper 451; Boulder, CO: Geol. Soc. Amer.; 244pp.
- James, L. A. and W. A. Marcus (Eds.). 2006. The Human Role in Changing Fluvial Systems. Proc. 37<sup>th</sup> International Binghamton Geomorphology Symposium, Oct. 20-22, 2006, Columbia, SC. 362 pp. The Netherlands: Elsevier.
- Platt, R. H., James, L. A., et al. 1995. Flood Risk Management and the American River Basin: An Evaluation. National Research Council, Committee on Flood Control Alternatives in the American River Basin. Wash., D.C.: National Academy Press. 236 pp.

## ***REFEREED JOURNAL ARTICLES***

- Ress, L.D., Hung, C.-L., and James, L.A. (in review). Impacts of urban drainage systems on stormwater hydrology: Rocky Branch watershed, Columbia, South Carolina. *Journal of Flood Risk Management*.
- James, L.A., Monohan, C., Ertis, B. 2019 (digitally 2018). Long-term hydraulic mining sediment budgets: Connectivity as a management tool. *Science of the Total Environment* 651: 2024-2035.
- James, L.A., 2018. Impacts of pre- and postcolonial land use on floodplain sedimentation in temperate North America. *Geomorphology*. Invited.  
<https://doi.org/10.1016/j.geomorph.2018.09.025>
- Magilligan, F.J., James, L.A., Lecce, S., Dietrich, J., Kupfer, J. (in press). Geomorphic responses to extreme rainfall, catastrophic flooding, and dam failures across an urban to rural landscape. *Annals Amer. Assn. Geographers*.
- Hung, C-L. J., James, L.A., Carbone, G. 2018. Impacts of urbanization on stormflow magnitudes in small catchments in South Carolina, USA. *Anthropocene* 23: 17-28.

**REFEREED JOURNAL ARTICLES** (continued)

- James, L.A. 2018. Ten conceptual models of large-scale legacy sedimentation - a review. *Geomorphology* 317: 199-217. Invited.
- Hung, C-L. J., James, L.A., Hodgson, M.E. 2018. An automated algorithm for mapping building impervious areas from airborne LiDAR point-cloud data for flood hydrology. *GIScience & Remote Sensing* 55: 793-816. doi: 10.1080/15481603.2018.1452588
- James, L.A., Phillips, J.D., Lecce, S.A. 2017. A centennial tribute to G.K. Gilbert's "Hydraulic-Mining Débris in the Sierra Nevada." *Geomorphology* 294: 4-19. doi: 10.1016/j.geomorph.2017.04.004
- James, L.A. 2017. Arrested geomorphic trajectories and the long-term hidden potential for change. *Journal of Environmental Management* 202: 412-423. doi: 10.1016/j.jenvman.2017.02.011
- \_\_\_\_\_. 2015. Designing Forward with an Eye to the Past: Morphogenesis of the lower Yuba River. *Geomorphology* 251: 31-49. Doi: 10.1016/j.geomorph.2015.07.009
- Singer, M. B., R. Aalto, L. A. James, N. E. Kilham, J. L. Higson, and S. Ghoshal. 2013. Enduring legacy of a toxic fan via episodic redistribution of California gold mining debris. *Proceedings National Academy of Sciences* 110(46): 18436-18441. doi: 10.1073/pnas.1302295110
- James, L. A. 2013. Legacy sediment: Definitions and processes of episodically produced anthropogenic sediment. *Anthropocene* 2: 16-26, <http://dx.doi.org/10.1016/j.ancene.2013.04.001>.
- Arrington, T. and L. A. James 2013. Downstream geomorphic variation and local bedrock influence of a steep transitional river: Blue Ridge to Piedmont, South Carolina. *Physical Geography* 34(4-5): 373-391.
- James, L. A., M. E. Hodgson, S. Ghoshal, M. Megison Latiolais. 2012. Geomorphic change detection using historic maps and DEM differencing: The temporal dimension of geospatial analysis. *Geomorphology* 137: 181-198.
- Bishop, M., A. James, J. Shroder, S. Walsh. 2012. Geospatial technologies and digital geomorphological mapping: Concepts, issues and research. *Geomorphology* 137: 5-26.
- Perveen, S. and L. A. James. 2012. Changes in correlation coefficients with spatial scale and implications for water resources and vulnerability data. *Professional Geographer* 64(3):389-400. DOI:10.1080/00330124.2011.609783
- James, L.A. 2011. Contrasting geomorphic impacts of pre- and post-Columbian land-use changes in Anglo America. *Physical Geography* 32(5): 399-422; doi10.2747/0272-3646.32.5.399.
- James, L. A. and K. J. Hunt. 2010. The LiDAR-side of headwater streams: Mapping channel networks with high-resolution topographic data. *Southeastern Geographer* 50(4): 523-539.
- Perveen, S. and L. A. James. 2010. Scale invariance of water stress and scarcity indicators: Facilitating cross-scale comparisons of water resources vulnerability. *Applied Geography*. 31: 321-328. doi:10.1016/j.apgeog.2010.07.003

**REFEREED JOURNAL ARTICLES** (continued)

- James, L. A. 2010. Secular sediment waves, channel bed waves, and legacy sediment. *Geography Compass* 4/6: 576-598. doi: 10.1111/j.1749-8198.2010.00324.x Invited.
- Ghoshal, S., L. A. James, M. Singer, R. Aalto. 2010. Channel and floodplain change analysis over a 100-year period: Lower Yuba River, California. *Remote Sensing* 2, 1797-1825; doi:10.3390/rs2071797. Open Access: <http://www.mdpi.com/2072-4292/2/7/1797/>
- Perveen, S. and L.A. James. 2009. Multiscale effects on spatial variability metrics in global water resources data. *Water Resources Management*. DOI 10.1007/s11269-009-9530-2.
- James, L. A. 2009. Integrating water-quality into a water resources research agenda. *Journal of Contemporary Water Research and Education* 142: 1-6. Invited. <http://www.ucowr.siu.edu/updates/142/3.pdf>
- James, L. A. and M. B. Singer. 2008. Development of the lower Sacramento Valley flood control system: An historical perspective. *Natural Hazards Rev.* 9(3): 125-135.
- Singer, M.B., R. Aalto, and L.A. James. 2008. Status of the lower Sacramento Valley flood control system within the context of its natural geomorphic setting. *Natural Hazards Rev.* 9(3): 104-115.
- James, L. A., D. G. Watson, W. F. Hansen. 2007. Using Lidar to map gullies and headwater streams under forest canopy: South Carolina, USA. *Catena* 71: 132-144.
- James, L. A. 2006. Bed waves at the basin scale: implications to river management and restoration. *Earth Surface Processes and Landforms* 31: 1692-1706.
- James, L. A. and W. A. Marcus. 2006. The human role in changing fluvial systems: Retrospect, inventory and prospect. *Geomorphology* 79: 152-171.
- James, L. A. 2005. Sediment from hydraulic mining detained by Englebright and small dams in the Yuba Basin. *Geomorphology* 71: 202-226.
- \_\_\_\_\_ 2004. Tailings fans and valley-spur cutoffs created by hydraulic mining. *Earth Surface Processes and Landforms* 29(7): 869-882.
- Fabel, D., J. Harbor, D. Dahms, L. A. James, D. Elmore, L. Horn, K. Daley, and C. Steele. 2004. Spatial patterns of glacial erosion at a valley scale derived from terrestrial cosmogenic <sup>10</sup>Be and <sup>26</sup>Al concentrations in rock. *Annals Assn. Amer. Geographers* 94(2): 241-255.
- James, L. A. 2003. Glacial erosion and geomorphology in the Northwest Sierra Nevada, California. *Geomorphology* 55(1-4): 283-303. (Invited paper)
- \_\_\_\_\_ 2003. Non-point source pollution and the Clean Water Act: Policy problems and professional prospects. *Journal of Contemporary Water Research and Education* 126, Article 10: <http://opensiuc.lib.siu.edu/jcwre/vol126/iss>
- James, L. A.; J. Harbor; D. Fabel; D. Dahms; and D. Elmore. 2002. Late Pleistocene glaciations in the Northwestern Sierra Nevada, California, *Quaternary Research* 57: 409-419.
- Shepherd, A. M. and L. A. James. 2001. Interpolation of horizon contours from parallel 2D seismic sections. *Preview, Australian Assn. of Exploration Geophysicists* Vol.95 (Dec.).

### **REFEREED JOURNAL ARTICLES** (continued)

- James, L. A. 1999. Time and the persistence of alluvium: River engineering, fluvial geomorphology, and mining sediment in California. *Geomorphology* 31: 265-290. Also in Giardino, J. R., D. Marston, and M. Morisawa (eds.), *Changing the Face of the Earth: Engineering Geomorphology*; Binghamton Geomorph. Symp., Bologna, Italy, Sept., 1997. (Invited paper).
- Magilligan, F. J., J. D. Phillips, L. A. James, and B. Gomez. 1998. Geomorphic and Sedimentological controls on the effectiveness of an extreme flood. *Journal of Geology* 106: 87-95.
- Gomez, B., J. D. Phillips, F. J. Magilligan, and L. A. James. 1997. Floodplain sedimentation and sensitivity: Summer 1993 flood, upper Mississippi River valley, *Earth Surface Processes & Landforms* 22: 923-936.
- James, L.A. 1997. Channel incision on the lower American River, California, from streamflow gage records. *Water Resources Research* 33: 485-490.
- \_\_\_\_\_. 1996. Polynomial functions for glacial valley cross-section morphology. *Earth Surface Processes and Landforms* 21: 413-432.
- \_\_\_\_\_. 1995. Diversion of the upper Bear River: Glacial diffluence and Quaternary erosion, Sierra Nevada, California. *Geomorphology* 14: 131-148.
- Gomez, B., L. A. K. Mertes, J. D. Phillips, F. J. Magilligan, and L. A. James. 1995. Sediment characteristics of an extreme flood: 1993 upper Mississippi R. valley, *Geology* 23(11): 963-966.
- Carbone, G. and L. A. James. 1993. Applying GIS Technology to Climate Data in South Carolina. *Geo Info Systems* 3(9): 52-59.
- James, L. A. 1991. Incision and morphological evolution of a channel recovering from hydraulic mining sedimentation. *Geological Society of America Bulletin* 103: 723-726.
- \_\_\_\_\_. 1991. Quartz concentration as an index of alluvial mixing of hydraulic mine tailings with other sediment in the Bear River, California. *Geomorphology* 4: 125-144.
- \_\_\_\_\_. 1989. Sustained storage and transport of hydraulic mining sediment in the Bear River, California. *Annals, Association of American Geographers* 79(4): 570-592.
- \_\_\_\_\_. 1988. Rates of organic carbon accumulation in young mineral soils near Burroughs Glacier: Glacier Bay, Alaska. *Physical Geography* 9: 50-70.

### **REFEREED BOOK CHAPTERS AND PROCEEDINGS PAPERS**

- Brown A.B., Petit, F., and James, L.A. 2016. Archaeology and human artefacts. In, Ch.3, *Tools in Fluvial Geomorphology*, Second Edition. G. Mathias Kondolf and Hervé Piégay (Eds.), John Wiley & Sons, Ltd.



## REFEREED BOOK CHAPTERS AND PROCEEDINGS PAPERS *(continued)*

- James, L.A. 2013. Impacts of Early Agriculture and Deforestation on Geomorphic Systems. In, *Geomorphology of Human Disturbances, Climate Change, and Natural Hazards*, James, L.A., C. Harden, J. Clague (Eds.), Vol.13, *Treatise on Geomorphology*, Shroder, J., Jr., (Ed. in Chief). Academic Press, San Diego, CA, vol. 13, pp.48-77.
- James, L.A. and S. Lecce. 2013. Impacts of Land-Use and Land-Cover Change on River Systems. In, *Fluvial Geomorphology*, Wohl, E. (Ed.), Vol. 9, *Treatise on Geomorphology*; Shroder, J., Jr., (Ed. in Chief). Academic Press, San Diego, CA, pp. 768-793.
- Mossa, J. and L.A. James 2013. Impacts of Mining on Geomorphic Systems. In, *Geomorphology of Human Disturbances, Climate Change, and Natural Hazards*, James, L.A., C. Harden, J. Clague (Eds.), *Treatise on Geomorphology*, Shroder, J., Jr., (Ed. in Chief). Academic Press, San Diego, CA, vol. 13, pp. 74-95.
- James, L. A., M. B. Singer, S. Ghoshal, and M. Megison. 2009. Sedimentation in the lower Yuba and Feather Rivers, California: Long-term effects of contrasting river-management strategies, in James, L.A., Rathburn, S.L., and Whittecar, G.R., eds. *Management and Restoration of Fluvial Systems with Broad Historical Changes and Human Impacts: Geological Society of America Special Paper 451*, doi: 10.1130/2009.2451(04).
- James, L. A. 2004. Decreasing sediment yields in northern California: vestiges of hydraulic gold-mining and reservoir trapping. In, V. Golosov, V. Belyaev, and D. E. Walling (Eds.), *Sediment Transfer through the Fluvial System. Proc. Internat. Symp., Aug. 2-6, 2004. Moscow, Russia. Wallingford, UK: Internat. Assn. Hydrological Sciences (IAHS) Publ. 288 (Red Book); pp. 235-244.*
- \_\_\_\_\_. L. A. 2004. Non-Point Sources: Historical Sedimentation and 20th Century Geography. In, pp.405-410, Warf, B., D. Janelle, and K. Hansen (Ed.s), Chapter: 66, *WorldMinds: Geographical Perspectives on 100 Problems*, Kluwer Pub. Co.
- Shankman, D. and James, L. A. 2002. Appalachia and the Eastern Cordillera. In, pp.291-306, Antony R. Orme (Ed.), *Physical Geography of North America*, Chapter: 15, Publisher: Oxford Press. 576 pp.
- James, L. A. 1993. Sustained reworking of hydraulic mining sediment in California: G. K. Gilbert's sediment wave model reconsidered. *Zeitschrift für Geomorphologie*, N. F.; Suppl.-Bd. 88: 49-66. ISBN: 3-443-21088-0
- \_\_\_\_\_. 1994. Channel changes wrought by gold mining: Northern Sierra Nevada, California. In *Effects of Human-Induced Changes on Hydrologic Systems*, Marston, R. and V. Hasfurther (Eds.), Amer. Water Resources Assn., Proc. conference June 26-29, 1994, Jackson Hole, Wyoming; pp. 629-638.

## ***NON-REFEREED ARTICLES & BOOK CHAPTERS***

- James, L.A. 2017. Surface Water. *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. J. Wiley. doi/10.1002/9781118786352.wbieg0888/pdf
- \_\_\_\_\_. 2015. Legacy Effects. Annotated bibliography, in *Oxford Bibliographies in Environmental Science*. University of Oxford Press.

## **NON-REFEREED ARTICLES & BOOK CHAPTERS** (continued)

- Brown, A. G., F. Petit and L. A. James. 2016. Archaeology and human artefacts. In, pp. 59-75, H. Piégay, and G. M. Kondolf (eds.), *Tools in Fluvial Geomorphology*; 2d Ed. Oxford: Oxford Univ. Press.
- Mossa, J., L.A. James, 2013. Changing fluvial systems. Introduction to special issue of *Physical Geography* 34(4-5): 267-272. DOI:10.1080/02723646.2013.846688
- James, L.A. and J. Mossa, 2013. Dedication to James C. Knox. *Physical Geography* 34(4-5): 261-266. DOI:10.1080/02723646.2013.846684
- James, L.A., C. Harden, J. Clague 2013. Geomorphology of Human Disturbances, Climate Change, and Hazards, James, L.A., C. Harden, J. Clague (Eds.). In *Treatise on Geomorphology*, Shroder, J., Jr. (Ed. in Chief). Academic Press, San Diego, CA, vol. 13, pp. 1-13.
- James, L.A., S. Walsh, M.P. Bishop. 2012. Geospatial technologies and geomorphological mapping. *Geomorphology* 137: 1-4.
- James, L. A., S. A. Lecce, L. Davis. 2010. Fluvial processes in small Southeastern watersheds; Introduction. *Southeastern Geographer* 50(4): 393-396.
- James, L.A., S. L. Rathburn, and G. R. Whittecar. 2009. Managing Rivers with Broad Historical Changes and Human Impacts. Introductory chapter to Management and Restoration of Fluvial Systems with Broad Historical Changes and Human Impacts: *Geological Society of America Special Paper 451*, doi: 10.1130/2009.2451(00).
- James, L. A., S. Cutter. 2008. Flood Hazards in the Central Valley of California. Introduction to special issue; *Natural Hazards Review* 9(3): 101-103.
- James, L. A. and W. A. Marcus. 2006. The 2006 Binghamton Geomorphology Symposium on The Human Role in Changing Fluvial Systems. *Geomorphology* 79(304): 144-147.
- James, L.A. 2003. Non-point source pollution and the Clean Water Act: Policy problems and professional prospects. *Water Resources Update* 126: 60-67. (Invited paper).
- \_\_\_\_\_. 2004. Non-Point Sources: Historical Sedimentation and 20<sup>th</sup> Century Geography. In, pp.405-410, Warf, B., D. Janelle, and K. Hansen (eds.) *WorldMinds: Geographical Perspectives on 100 Problems*. N. Y.: Kluwer Pub. Co.; 635 pp.
- Brown, A. G., F. Petit and L. A. James. 2003. Archaeology and Human Artifacts. In, pp. 59-75, Chapter 3, H. Piégay, and G. M. Kondolf (eds.), *Tools in Fluvial Geomorphology*. Oxford: Oxford Univ. Press

## **BOOK REVIEWS & OTHER NON-REFEREED PUBLICATIONS**

- James, L.A. 2016. Columbia Canal breached by Congaree River flooding in South Carolina. *Southeastern Geographer* 56(1): 1-2. Cover photo and short essay.
- James, L.A. and D.L. Tufford. Oct. 10, 2014. *Surface waters need stronger protection*. The State newspaper, Op. Ed.
- James, L.A., 2012. Restructuring space in the Earth sciences. Op-Ed. *Assoc. Amer. Geographers Newsletter* 47(10): 16.

### **BOOK REVIEWS & OTHER NON-REFEREED PUBLICATIONS (continued)**

- James, L.A., 2011. Water resources as a model of opportunities, challenges, and strategies for Geographers. *Assoc. Amer. Geographers Newsletter* 46(7): 9-10.
- \_\_\_\_\_. 2006. Report of the Program Committee. *Southeastern Geographer* 46(1): 169- 170. [Vice President's annual report]
- \_\_\_\_\_. 2005. Report of the Program Committee. *Southeastern Geographer* 45(1): 159-160. [Vice President's annual report]
- James, L. A. and C. Lant. 2003. Water-Resources Issues for the New Millennium: Geographic Perspectives. *Water Resources Update* 126: 1-5. Introduction to special issue as invited guest editor.
- James, L. A. 2001. Book Review: *Virtual Rivers: Lessons from the Mountain Rivers of the Colorado Front Range*, Ellen E. Wohl, Yale University Press, New Haven, xiv+210 pp., *EOS, Transactions American Geophysical Union*, p. 459, Oct. 2, 2001.
- \_\_\_\_\_. Book Review. 1999. *Glaciers of California: Modern Glaciers, Ice Age Glaciers, Origin of Yosemite Valley, and a Glacier Tour in the Sierra Nevada*, by Bill Guyton. Univ. Calif. Press (1998). 197 p. ISBN 0-520-21295-9. Illus. Cloth, \$34.95. *Geotimes* 44(12): 26.
- \_\_\_\_\_. 1998. Book Review: *Geomorphology from Space*, CDROM. Short and Blair. *Professional Geographer* 50(3): 400.
- James, L. A. and S. Colman. 1996. Quaternary Geology and Geomorphology. Annual summary, *Geotimes*, Feb., 1996.
- James, L. A. 1996. Four articles: *Sierra Madre, Paricutin, Mt. Rainier, and Niagara Escarpment*. In Microsoft Encarta [multimedia encyclopedia], Redmond, WA: Microsoft Corp.
- \_\_\_\_\_. 1992. Conference Report: "International Union for Quaternary Research" in *Professional Geographer* 44: 99.
- Carbone, G. J.; L. A. James; and P. R. Holt. 1991. Application of GIS technology to climate data in the Carolinas; *GIS/LIS '91: Proceedings*, Vol.2; Oct.28-Nov.1, 1991.
- Massie, L.; L. A. James; *et al.* (1982). Upper Koshkonong Creek: A Watershed Management Study. Paper No. 82-2544. *Amer. Soc. Agric. Engrs. Proc.*, Nat. Mtg., Chicago, IL.

### **UNPUBLISHED FIELD GUIDES**

- James, L. A., M. Singer, and R. Aalto. 2007. Field Trip Guide and Road Log: Tracking Hydraulic Mining sediment in the Sierra Foothills and Sacramento Valley. Ann. Mtg. Assn. Amer. Geographers, SF, April 15-17, 2007. 55 pp.
- James, L. A. 2003. Late Pleistocene Glaciations in the Northwestern Sierra Nevada. Field Trip Guide and Road Log. XVI INQUA Congress, International Quaternary Association; from Reno, Nevada, July 27, 2003; 14 pp.

***UNPUBLISHED FIELD GUIDES*** )(continued)

James, L. A. and J. D. Davis. 1994. Glaciation and Hydraulic Gold-Mining Sediment in the Bear and South Yuba Rivers, California. Field Trip Guide, April 1-3, 1994, Assn. Amer. Geographers National Meeting, San Francisco. 113 pp.

***UNPUBLISHED TECHNICAL REPORTS***

- L.A. James et al. 2017. NSF RAPID Project Outcomes Report for Award 1615154: Patterns of fluvial sedimentation and geomorphic change following an extreme flood event. Final project report.
- L.A. James. 2013. Historical geomorphic and land-use/land-cover reconstructions for the lower Yuba River based on cartometrics and remote sensing. Final report to Yuba County Water Agency (YCWA), June 22, 2013. Yuba River Development Project; FERC Project No. 2246.
- L.A. James and M. Hodgson. 2009. Status Report on Establishing NHD/WBD Stewardship Program and developing a protocol for creating local resolution NHD data for South Carolina. Report to Gary Merrill, U.S. Geological Survey liaison.
- Graf, W.D. et al. 2009. Minimum Flow Rules for South Carolina Rivers, Letter Report to Senator Daniel B. Verdin III, Chairman, Committee on Agriculture and Natural Resources, South Carolina Senate, from South Carolina Independent Science Review Panel for Minimum Instream Flows, Center for Humans and Nature.
- Haselback, L. and L.A. James. 2008. *Review of Practices for Ditch Vegetation Management and Summary Recommendations for Richland County*; for Richland County Stormwater Management Division, Department of Public Works. Submitted as the final report for *Environmental Assessment of Spraying of Stormwater Infrastructure* Project, July 2, 2008. 155 pp. with Appendices.
- Haselback, L. and L.A. James. 2008. Principles of Storm-Ditch Vegetation Maintenance in Richland County. Brochure produced for Srinivas Valavala, Stormwater Services Manager, Richland County Dept. of Public Works. 155 pp. with Appendices.
- L.A. James, *Tracking Hydraulic Mining Sediment, 2005-2008*. 2008. Final Report to NSF on research project BRS 0520933. Project End Date: 07/31/2008.
- Upper Yuba River Studies Program Technical Review Panel. 2003. Second Report of the Technical Review Panel. Findings from the Second Technical Review Meeting; Nevada City, California. Oct. 1-3, 2003. Submitted to the California Bay-Delta Authority; 41 pp.
- Upper Yuba River Studies Program, Technical Review Panel. 2001. First Report of the Technical Review Panel. Findings from the First Technical Review Meeting, Grass Valley, California, Sept. 20-21, 2001. Submitted to the CALFED Bay-Delta Program; 45 pp.
- Carbone, G.; A. James; Y. Cheng; P. Holt; and H. Lin. 1991. Carolina Climatic and Hydrologic Data Spatial Analysis System. Southeast Regional Climate Center, RP121091.
- Carbone, G.; A. James. 1991. Use of a Geographic Information System in Climate Analysis. Southeast Regional Climate Center, Research Paper Series: RP120191.

### ***UNPUBLISHED TECHNICAL REPORTS (continued)***

James, L. A. nd. Fluvial Geomorphology: Flood Hydrology and Riverine Landforms; unpub. course supplement for Geography 547; 180pp. This supplement was revised and reprinted almost every year from 1989 to 2000.

\_\_\_\_\_ nd. Geographic Techniques for Landform Analysis; Unpub. Lab. Manual for Landform Geography; 147 pp. This supplement has been revised and reprinted almost every year from 1989 to 2011.

\_\_\_\_\_ 1988. Historical transport and storage of hydraulic mining sediment in the Bear River, California; Ph.D. Dissertation. Madison: Univ. Wisconsin, 284 pp.

\_\_\_\_\_ 1983. *Post-Flood Channel Adjustments in the Upper Kickapoo River, Southwest Wisconsin*. M. S. Thesis. Madison: Univ. Wisconsin, 247 pp.

Anderson, K., L. A. James; *et al.* 1982. *Upper Koshkonong Creek: A Watershed Management Study*. Inst. Environmental Studies, Rpt. 116. Madison: Univ. Wisconsin, 187 pp.

### ***INVITED ORAL PAPER PRESENTATIONS***

#### **National or International:**

James, L.A. 2018. The sedimentation studies of G.K. Gilbert. In session: *Foundation to Frontiers in Earth and Planetary Processes since 1877 Geology of the Henry Mountains*. American Geophysical Union. Keynote presentation, December date TBA.

\_\_\_\_\_ 2018. The legacy of land-use change in temperate North America. PAGES' Global Soil & Sediment Transfers in the Anthropocene (GloSS) working group database meeting. Oct. 18, 2018, Koblenz, Germany.

\_\_\_\_\_ 2018. The legacy of land-use changes and fluvial response. Workshop on “*Challenges in Managing Fluvial Systems in the Anthropocene.*” June 4, 2018, Lyon, France. Organized by Peter Downs and Hervé Piégay

\_\_\_\_\_ 2017. Long-term storage and remobilization of legacy sediment: Conceptual models of anthropogenic sediment redistribution,” Oct. 23, 2017. Pardee Keynote Symposium on *Landscapes in the Anthropocene*. Geol. Soc. America, Seattle, WA.

\_\_\_\_\_ 2017. *Early anthropogeomorphic changes to fluvial systems in temperate North America*. April 24, 2017, Scientific and Technical Advisory Committee (STAC); Workshop on “*Legacy sediment, riparian corridors, and total maximum daily loads.*” Annapolis, MD.

\_\_\_\_\_ 2017. Invited colloquium speaker, Geography Dept., Western Michigan Univ. Sept. 15, 2017.

\_\_\_\_\_ 2013. *Hydraulic mining sediment in the Sierra Nevada; long-term human impacts on rivers*. Geomorphic and ecological fundamentals of river and stream restoration. Sagehen Field Station, Calif. Invited presentation as visiting instructor for restoration workshop led by Matt Kondolf and Peter Wilcock, Aug.7, 2013.

\_\_\_\_\_ 2013. *Historical geomorphic and land-use/land-cover reconstructions for the lower Yuba River based on cartometrics and remote sensing*. Yuba River Webinar Symposia. River Management Team Planning Group. Oct. 1, 2013.

## **INVITED ORAL PAPER PRESENTATIONS**

### ***National or International (continued):***

- James, L. A. 2012. *Uncertainties in SC River flows: Implications to the 2010 SC surface water law*. Technical Workshop: Agricultural Water Allocation and Stream Flow; Nov. 10, 2014, Columbia, SC.
- \_\_\_\_\_ 2012. *Introduction to the urban hydrology of Rocky Branch Watershed*. Public community watershed meeting, Oct., 2012, 701 Whaley St., Columbia, SC.
- \_\_\_\_\_ 2012. *Relative impacts of pre- and post-Columbian land use in North America*. Theme session on Anthropocene; Geological Society of America Ann. Mtg., Charlotte, NC; Oct., 2012.
- \_\_\_\_\_ 2012. *Floodplain morphogenesis in the Lower Yuba River*. River Management Team Symposium, Yuba County Water Agency. Sacramento, Calif., July 10, 2012.
- \_\_\_\_\_ 2012. *Hydraulic mining sediment impacts on American River channel morphology and flood stages*. 2012 California Extreme Precipitation Symp., June 26, 2012, Univ. Calif., Davis.
- James, L.A. and Ghoshal, S. 2012. *Geomorphic change detection: 150 years of floodplain morphogenesis on the lower Yuba and Feather Rivers*. Annual meeting AAG, NYC, Feb. 27, 2012. Special session commemorating the retirement of James C. Knox.
- James, L.A. 2012. *Integrated watershed management: Overcoming centuries of hydraulic myopia*. Invited Colloquium presentation, *Columbia Water Center*, Earth Institute, Columbia University, NYC, Feb. 22, 2012.
- \_\_\_\_\_ 2012 The Lidar side of headwater stream mapping: New technologies for mapping rivers in South Carolina. *Geofest*, Columbia, SC, Feb. 18, 2012. Invited.
- James, L. A., M. B. Singer, and R. Aalto. 2008. *Legacy morphologies: Channel avulsions and historical engineering structures drive form and process in the lower Yuba and Feather Rivers, California*. Amer. Geophys. Union, San Francisco; Dec., 2008. (1st author invited)
- James, L. A., 2008. Legacy sediment and secular channel changes: lower Yuba and Feather Rivers, California. Humans and Environmental Change, Exeter Lecture Series, Nov. 21st, School of Geography, Univ. Exeter, U. K.
- \_\_\_\_\_ 2006. The river's end: The Lidar side of mapping stream headwaters and gullies. Presented to *Geofest*, hosted by the SC Geographic Alliance, Columbia SC, August 26, 2006.
- \_\_\_\_\_ 2006. Sustained storage and remobilization of hydraulic mining sediment in the Yuba, Bear, and American Rivers. Presentation to the U.S. Geological Survey, Menlo Park, July 14, 2006.
- \_\_\_\_\_ 2006. *Using Airborne Laser Scanning (ALS or Lidar) Data to Map Gullies and Headwater Streams under Thick Canopy in South Carolina*. Invited colloquium presentation, Dept. Geosciences, Florida Atlantic Univ., West Palm Beach, Feb. 24, 2006.

## **INVITED ORAL PAPER PRESENTATIONS**

### ***National or International (continued):***

- James, L. A. 2005. *The Need for Integrated Watershed & Water Resources Management: An example from the Yuba River, California*. Invited colloquium presentation, Program in Science, Technology and International Affairs, Georgetown University. January, 2005.
- \_\_\_\_\_. 2005. *Hydraulic Myopia and the Fluvial Sediment Wave: Localized River-Channel Perspectives Overlook Gilbert's Watershed Vision*. Invited colloquium presentation, Earth \_\_\_\_\_ 2005. Systems and GeoInformation Sciences program, School of Computational Sciences, George Mason Univ., January, 2005.
- \_\_\_\_\_. 2004. *Mapping Late Pleistocene Glaciations: Northwest Sierra Nevada, California*. Invited colloquium presentation, Geography Dept., Appalachian State Univ., Feb., 2005.
- \_\_\_\_\_. 2002. *Hydrogeomorphic Considerations to Alterations or Removal of Englebright Dam*. "Dams and Geomorphology," October, 2002, Binghamton Geomorphology Symp., Bloomsburg Univ., PA.
- \_\_\_\_\_. 2001. *Glacial Erosion and Geomorphology in the Northwest Sierra Nevada, California*," Oct. 20-21, 2001; Internat. Binghamton Geomorphology Symp., Univ. North Carolina - Chapel Hill.
- \_\_\_\_\_. 2001. *Glaciation in the Tahoe National Forest: Evidence and Implications*. Presented to U.S. Forest Service; Tahoe N. F. District Office, Nevada City, CA; Sept., 2001.
- \_\_\_\_\_. 1999. *Geomorphic Responses to Episodic Hydraulic Gold-mining Sedimentation. Theme session on Impacts of Hydraulic Mining and Placer Gold Processing*. Organized by M. Hunerlach and C. Alpers, USGS. Geol. Soc. Amer., Cordilleran Div. mtg., Berkeley, CA.
- \_\_\_\_\_. 1998. *Hydraulic gold-mining sediment and channel responses in the northwestern Sierra Nevada, California*. Colloquium, Geography Dept., Univ. Calif., Berkeley, Oct. 14, '98.
- \_\_\_\_\_. 1998. *Hydraulic gold-mining sediment in the Sierra Nevada*. Green and Gold: California's Environments – Memories and Visions. Conference sponsored by Univ. Calif. and Calif. Council for Humanities; July 30 - Aug. 2, 1998, U. C., Santa Cruz.
- \_\_\_\_\_. 1996. *Production, storage, and transport of hydraulic mining sediment in northern California*. Society of Environmental Toxicity and Chemistry (SETAC) sixth annual meeting: Environmental Fate of Contaminants. June 24, 1996, Sacramento, Calif.
- \_\_\_\_\_. 1993. *Diversion of the Upper Bear River: A case for Late Quaternary Sierra Nevada glacial transfluence*. 1993 Fall Mtg., S. F. Am. Geophys. Union, EOS Sup., Oct., 1993. pp.292-93.
- \_\_\_\_\_. 1990. *Hydraulic mining in the Bear and Yuba Rivers and its importance to the development of California Water Policy*. Colloquium, Dept. Land, Air, and Water Resources, Univ. California, Davis. Fall, 1990.

## **INVITED ORAL PAPER PRESENTATIONS**

### ***National or International (continued):***

- James, L. A. 2004. *Mining the Gold: Episodic sedimentation from California mining and Southern Piedmont tobacco & cotton farming*. Invited colloquium presentation, Geography Dept., Univ. Georgia, Athens. Feb. 6, 2004.
- \_\_\_\_\_. 2003. *That Ole Man River, he keeps on changin': 200 years of erosion, gullies, and cultural impacts to South Carolina rivers*. Geographic Alliance, USC, Columbia, SC, June, 2003.
- \_\_\_\_\_. 2003. *From Source to tap and back again: Water resources in South Carolina*. Geographic Alliance, USC, Columbia, SC, June, 2003.
- \_\_\_\_\_. 2001. *Mercury and other Toxins in Hydraulic Gold-Mining, California*. South Carolina Geologic Professionals; Nov., 2001.
- \_\_\_\_\_. 2001. *Environmental Impacts of Hydraulic Gold Mining, California*. South Carolina Audubon Society, Oct., 2001.
- \_\_\_\_\_. 2001. *Glacial geomorphology in the Sierra Nevada, California: Mapping and Stratigraphy*. Geography Dept. Colloquium; Sept., '01.
- McKellar, H., James, A. et al. 1998. *Mill Creek Watershed Project: Stream Hydrology and Water Quality*. What We've Learned So Far -- Non-Point Source Information Exchange. S.C. Dept. Health and Env. Control and S.C. Dept. Natural Resources. Columbia, SC. April 21-22. Read by James and McKellar.
- James, L. A. 1996. *Environmental impact of California's historic hydraulic gold-mining in the Sierra Nevada*. Sierra Club, South Carolina Chapter.
- \_\_\_\_\_. 1988. *Responses of sediment loads to climate change in the southeastern United States*. 19th Ann. South Carolina Water Conference, Oct. 20, 1988, Columbia, SC.

### **Invited Webinar and TeleConference Presentations:**

- James, L. A. 2018. *Sediment from hydraulic mining activities in the Yuba River Basin: Where is it now?* Headwater Mercury Source Reduction Technical Advisory Committee (HMSR-TAC) meeting on "Hydraulic Mines and Mine Features," August 14, 2018, Auburn, CA. Paper read to conference by teleconference.
- \_\_\_\_\_. 2017. *Hydraulic Mining Sediment Stored in the Bear and Yuba Basins: Northwestern Sierra Nevada*, May 15, 2017. Webinar presentation to California Lake Management Society (CALMS).



## **Invited Webinar and TeleConference Presentations:**

- \_\_\_\_\_ 2017. *Update on Debris Control Dam Identification on Tahoe National Forest*, April, 17, 2017. Teleconference presentation to *Headwater Mercury Reduction Forum*, Sierra Fund, Nevada City.
- \_\_\_\_\_ 2017. *Hydraulic Mining Sediment in the Sierra Nevada*, March 22, 2017. Teleconference presentation to Calif. Mine Land Agency Group (CAMLAG) quarterly meeting - abandoned mines.

## ***OTHER ORAL PAPER PRESENTATIONS***

(Read by first author unless otherwise noted)

- James, L.A. 2018. Long-term sediment connectivity in a small, episodically aggraded mountainous catchment. Geological Society America national meeting, Indianapolis, Nov. 4, 2018.
- James, L.A., Monahan, C., Ertis, B. 2018. LiDAR mapping and spatial modeling to develop sediment budgets for hydraulic mine tailings in the Sierra Nevada, California. American Assn. Geographers (AAG) national meeting, April 10, 2018, New Orleans, LA.
- Hung, C.-L. J.\*, James, L.A., Carbone, G.J.. 2018. Impacts of anthropogenic change on streamflow: Runoff generation and stormwater timing. AAG national meeting, April 10, 2018, New Orleans, LA.
- James, L.A. 2017. Long-term anthropogenic sediment production and storage: Conceptual models, July 17- 21st, 2017, 11th Internat. Conf. on Fluvial Sedimentology, Calgary, Alberta.
- \_\_\_\_\_ 2017. Early anthropogeomorphic changes to fluvial systems in temperate North America, April 6, 2017, Amer. Assn. Geographers, Boston, Karl Butzer memorial special session.
- Hung, C.-L., James, L.A., Hodgson, M.E. Automatic building extraction using LiDAR point-cloud data for flood hydrology. April 9th, 2017. AAG national meeting, Boston, MA. [read by Hung.]
- James, L.A. 2016. Potential impacts of arrested environmental trajectories on long-term geomorphic form: implications to river management and restoration. Amer. Geophysical Union, San Francisco.
- James, L.A. and Hung, C.-L. 2016. Flood non-stationarity in urban basins: Gills and Rocky Branch Creeks, Columbia SC. Southeast Div. Assn. Amer. Geographers, Columbia, SC.
- James, L.A. 2016. Mapping river erosion and geomorphic change caused by an extreme flood. SC Floods Conference. Columbia, SC.
- \_\_\_\_\_ 2016. Historical and anthropogenic trajectory analysis for river management. Geological Society of America annual meeting, Denver, CO.

**OTHER ORAL PAPER PRESENTATIONS** (continued)

- \_\_\_\_\_. 2016. A sediment budget for hydraulic mining sediment in the Sierra Nevada, California. Assn. Amer. Geographers annual meeting, San Francisco, CA.
- Hung, C.-L., James, L.A., 2016. Quantifying impervious surface areas for a small urban watershed using spatial analysis. Assn. Amer. Geographers annual meeting, S.F., CA.
- James, L.A., Hung, C.-L., Sexton, B., Wooten, J. 2015. Flood Responses to Urbanization: Impervious Surface Areas and Storm Sewer Connectivity. Assn. Amer. Geographers annual meeting, Chicago, Illinois, April 22, 2015.
- James, L.A. 2015. Geomorphic Trajectories in the Lower Yuba River, California after 150 Years of Severe Human Disturbance. (Trajectoires Géomorphologiques dans le Cours Inférieur du Rivière Yuba, Californie après 150 ans de Perturbation Humaine Sévère Rivières).” Integrative Sciences and Sustainable Development of Rivers. Paper No.51806. I.S. Riviers 2<sup>nd</sup> International Conference, Lyon, France.
- James, L. A. 2014. Looking back while designing forward: Historical perspectives in the post-pristine river restoration era. *The Natural and Human Structuring of River Systems: An AAG Special Session in Honor of Will Graf*. AAG national meeting, Tampa, FL.
- Hung, C.-L. and James, L.A. 2014. *Estimating Impervious Surface Areas and Flood Risks in a Small Urban Watershed*. SEDAAG, Athens, GA.
- James, L. A. 2013. *Morphogenesis of the Yuba River Fan, California*. Geomorphic Response to Quaternary Climate Change I: A Session in Memory of James C. Knox. Paper No. 7-11. Geological Soc. Amer. Abstract with Programs 45(7). Denver, CO.
- \_\_\_\_\_. 2013. *Pre-Columbian anthropogeomorphic impacts in North America*. Eighth International Conference on Geomorphology. Internat. Assoc. Geomorphologists. Paris, France.
- \_\_\_\_\_. 2013. *Spatial patterns of legacy sediment: Graded and punctuated deposits*. Assn. Amer. Geog. annual meeting, Los Angeles, CA.
- Arrington, T. and L. A. James. 2012. *Downstream variation in bed material and bed forms in a southern Blue Ridge River*. Southeastern Div., AAG annual mtg., Asheville, TN.
- James, L .A. and L. Ghoshal. 2011. *Space-time cubes and geomorphic change detection: cartometrics and softcopy photogrammetry to improve time dimension*. Special session on Spatiotemporal Analysis of Environmental Phenomena; Assn. Amer. Geog. annual meeting, Seattle, WA; April 15, 2011.
- Ghoshal, S. and L. A. James. 2011. *Floodplain and channel change analysis using DEM differencing: Lower Yuba River, California*. Assn. Amer. Geog. annual national meeting, (Ghoshal won award for best PhD student paper from *Geomorphology Specialty Group* for this paper.)
- James, L. A., M. E. Hodgson; S. Ghoshal; M. Megison Latiolais. 2010. *Geomorphic change detection using historic maps and DEM differencing: The temporal dimension of geospatial analysis*. Binghamton Geomorphology Symp., Columbia, SC.

**OTHER ORAL PAPER PRESENTATIONS** (continued)

- Bishop, M., L. A. James, J. Shroder, S. Walsh. 2010. *Geospatial Technologies and Digital Geomorphological Mapping: Concepts, Issues and Research*. Binghamton Geomorphology Symp..
- James, L. A. 2010. *Pre-Columbian riverscapes: Geomorphic effectiveness of indigenous agriculture in the New World*. Southeastern Div., AAG annual mtg., Birmingham, AL.
- James, L. A., S. Ghoshal, M. B. Singer, and R. Aalto. 2010. *Channel and floodplain metamorphosis following an aggradation-degradation episode*. April 15, 2010. Annual mtg., AAG; Wash., D.C.
- Ghoshal, S. and L. A. James (read by Ghoshal), 2010. *Planimetric and Volumetric Analysis of Channel Change in the Post- Hydraulic Mining Period: Central Valley, California*. April 15, 2010. Assn. Amer. Geographers annual meeting, Washington, D.C.
- James, L. A. and K. J. Hunt. 2009. *Analyzing small watersheds with high-resolution topographic data: The LiDAR-side of mapping headwater streams*. Paper read at Southeastern Division, Assn. Amer. Geographers annual mtg., Knoxville, Tenn. Nov., 2009.
- James, L. A. and M. B. Singer. 2009. *Secular human impacts on river channels: Spatial patterns of change along the Yuba and Feather Rivers, California*. Paper read at Assn. Amer. Geographers (AAG) annual mtg., March, 2009. Las Vegas, NV.
- Megison, M. and L. A. James (read by James). 2008. *Quantifying channel change with historical maps and high-resolution topographic data: Lower Feather River, CA, 1909-1999*. Topical Session 13. Sediment in Fluvial Systems: Production, Transport, and Storage at the Watershed Scale. Geol. Soc. Amer. (GSA) national meeting, Oct. 5, 2008. Houston.
- James, L. A. 2008. *A Tale of two rivers: contrasting styles of episodic hydraulic mining sedimentation and recovery*. Paper read at AAG annual mtg., Boston.
- Megison, M. and L. A. James. 2008. *A century of human impacts: quantifying channel volumetric changes from 1909 to 1999, the Feather River, CA*. AAG national mtg., Boston.
- Ghoshal, S. and L. A. James. 2008. *Planimetric and volumetric change analysis estimating lateral channel migration and associated timing and magnitude of sediment erosion in the post-hydraulic mining period in lower Yuba River, California*. AAG national mtg., Boston.
- Singer, M. B., L. A. James, R. Aalto. 2008. *Episodic fan dissection: Insights from total mercury concentrations on transport and storage of legacy gold mining sediments in California*. Fall meeting American Geophysical Union. San Francisco, CA, Dec. 2008.
- James, L. A., S. Ghoshal, M. Megison, M. B. Singer, and R. Aalto. 2007. *Legacy sediments and channel morphology in the Feather and Yuba Rivers, California*. Fall meeting American Geophysical Union, San Francisco, Dec. 2007.

**OTHER ORAL PAPER PRESENTATIONS** (continued)

- James, L. A., M. B. Singer, R. Aalto, and S. Ghoshal. 2007. *Floodplain and channel evolution following catastrophic sedimentation: early and on-going river-basin management in the West*. Paper read at GSA annual mtg., Denver.
- James, L. A. 2007. *Geomorphic and historic underpinnings of flood hazards in the Sacramento Valley, California*. Paper read at AAG annual mtg., San Francisco.
- James, L. A. and S. Ghoshal. 2006. *Responses to episodic floodplain aggradation: hydraulic mining sediment in the Sacramento Valley*. Amer. Geophysical Union. Dec.; SF, CA.
- James, L. A. and D. G. Watson. 2006. *LIDAR map data for delineating channel headwater networks but not for sediment budgets*. Assn. Amer. Geographers, March, 2006.
- James, L. A., D. G. Watson, and W. F. Hansen. 2005. *Using Lidar imagery for geomorphic studies of gullies under thick canopy: South Carolina, USA*. Paper presented to 6th Internat. Assn. Geomorphology Conf., Zaragoza, Spain, Sept. 11, 2005.
- James, L. A. 2005. *Increasing fluvial heterogeneity with recovery from episodic sedimentation: Implications to river restoration*. Assn. Amer. Geographers, April 9; Denver, CO.
- James, L. A. 2004. *Long-term at-a-station channel morphological and hydraulic changes in response to decreased sediment supplies*. Amer. Geophysical Union. Dec. 17; San Francisco, CA.
- \_\_\_\_\_. 2004. *A watershed perspective of dam impacts on hydraulic mining sediment in California*. Geological Soc. Amer., Nov. 7; Denver, CO.
- \_\_\_\_\_. 2004. *Bed waves and sediment waves: Implications to sediment management*. Southeastern Div. Assn. Amer. Geographers. Nov. 22; Biloxi, MS.
- \_\_\_\_\_. 2004. *The quicksilver curse of silicon valleys: Implications of hydraulic mine tailings to long-term geomorphic response*. Joint Internat. Geomorphology Conference and British Geomorphological Research Group ann. mtg.; Aug. 17-20, 2004. Glasgow, Scotland.
- \_\_\_\_\_. 2004. *Decreasing sediment yields in northern California: Vestiges of hydraulic goldmining and reservoir trapping*. Sediment Transfer through the Fluvial System. Symp., Internat. Assn. Hydrological Sci. Aug. 2-6, 2004. Moscow, Russia.
- \_\_\_\_\_. 2002. *Evidence and Implications of Pleistocene Alpine Glaciation in the Northwestern Sierra Nevada*. Assn. Amer. Geogs. (AAG), Annual Mtg., Los Angeles, CA. March, '02.
- \_\_\_\_\_. 2000. *Extent and timing of Late Quaternary glaciations in the northwestern Sierra Nevada, California*. Geological Soc. Amer. Annual Mtg., Reno, NV. Oct., '00.
- James, L.A. and G. Carbone. 1999. *Streamflow in paired Southeastern Sandhills watersheds before and during an El Niño rainfall event*. AAG Ann. Mtg., Honolulu, HI.

**OTHER ORAL PAPER PRESENTATIONS** (continued)

- Curtis, J. A., H. M. Kelsey, and L. A. James. 1998. *Quantification of historical channel changes due to the influx of hydraulic mining debris, Steephollow Creek, Nevada Co., California*. Abstract 51255; Quaternary Geology and Geomorphology I: Fluvial and Hillslope Geomorphology: Channel Erosion, Sediment Transport and Paleoenvironmental Studies; Geol. Soc. Amer. Ann. Mtg., Toronto, Ont., Canada, Oct. 28, 1998.
- McKellar, H., A. James, et al. 1998. *Mill Creek Watershed Project: Stream hydrology and water quality*. What We've Learned So Far -- Non-Point Source Information Exchange. S.C. Dept. Health and Env. Control and S.C. Dept. Natural Resources. Columbia, SC. April 21-22. [Read by James and McKellar].
- James, L. A.; G. Carbone; H. McKellar; J. Dean; J. Atkins; and others. 1997. *Measuring stormflow from urban vs. rural areas: Sandhills region, Fort Jackson, South Carolina*. Southeastern Div. AAG (SEDAAG) Ann. Mtg. Birmingham, AL.
- Harbor, J., L. A. James, et al., 1997. *Reconstructing spatial patterns of erosion: New approaches using cosmogenic radionuclides*, AAG Ann. Mtg., Fort Worth, TX.
- James, L. A., 1996. *Hydraulic mining sediment in the American River Basin and its impact on flood hazards in Sacramento, California*. Geol. Soc. Amer., Denver, CO.
- Curley, P. and L. A. James. 1996. *Linking the family of Universal Soil Loss Equation Models to a GIS*. Amer. Water Resources Assn., Symp. on GIS for Water Resources Modeling, Ft. Lauderdale, FL.
- James, L. A. 1996. *Channel responses to hydraulic mining sediment in the American River Basin, California*. Abstracts: 92<sup>nd</sup> Ann. Mtg., AAG, Charlotte, NC.
- \_\_\_\_\_. 1995. *Stratigraphic evidence of Quaternary deep valley incision and drainage diversion: Northern Sierra Nevada, California*. Geological Society Am., Cordilleran Div., Fairbanks, AK.
- \_\_\_\_\_. 1995. *Channel morphological responses to historical sediment in the American River and flood hazard implications*. Abstracts: 91<sup>st</sup> Ann. Mtg., AAG, Chicago, IL.
- Magilligan, F. J., B. Gomez, J. D. Phillips, L. A. James, and L. A. K. Mertes. 1995. *Where's the Silt: Impacts of the '93 Mississippi River Flood*. Read by Magilligan, Abstracts: 91<sup>st</sup> Ann. Mtg., AAG, Chicago, IL.
- James, L. A. 1994. *Channel changes wrought by gold mining: Northern Sierra Nevada, California*. Am. Water Resources Assn., Ann. Summer Mtg., Jackson Hole, WY.
- Magilligan, F. J., B. Gomez, J. D. Phillips, and L. A. James. 1994, *Anatomy of a levee break*. Read by Magilligan, Abstracts: 90<sup>th</sup> Ann. Mtg., AAG, 1994. S.F., CA.
- James, L. A. 1993. *Late Quaternary stream capture: Sierra Nevada, California*. Third Internat. Geomorphology Conf. Hamilton, Ontario.
- \_\_\_\_\_. 1993. *Mining-induced channel change documented by repeat photography: 1858 to present*. In Assn. Amer. Geogs., Abstracts: 89<sup>th</sup> Ann. Mtg., 6-10 April, 1993, Atlanta, GA: p.112.

**OTHER ORAL PAPER PRESENTATIONS** (continued)

- \_\_\_\_\_ 1992. *Hydraulic Gold-Mine Tailings in the Sierra Nevada*. 27th Internat. Geographic Congress, Tech. Program Abstracts, Wash., D. C.: p.284-85.
- \_\_\_\_\_ 1992. *Longitudinal changes in an episodically aggraded channel system*. San Diego, AAG, 88th Ann. Mtg. Abstracts: p.112.
- Cordova, A. J. and L. A. James. 1991. *Erosion and sedimentation of an urbanizing catchment*. In AAG, Asheville, NC; p. 5 [Read by James].
- Carbone, G.; L. A. James; and P. R. Holt. 1991. *Application of GIS technology to regional climate data in the Carolinas*. In GIS/LIS '91 Proc., V.2. GIS/LIS Ann. Conf. and Exposition, Atlanta.
- James, L. A. 1991. *Sediment storage potential and stream power*. In AAG, 1991 Ann. Mtg. Abstracts, Miami, FL, April 13-17, P. 94.
- \_\_\_\_\_ 1991. *Late Quaternary stream capture: Sierra Nevada, California*. In Abstracts: Int. Union Quaternary Research (INQUA), XIII Int. Congr., Aug.2-9, 1991; Beijing, PRC. p.148.
- \_\_\_\_\_ 1990. *Late Quaternary stream capture, Northern Sierra Nevada*. Fluvial Geomorphology Spec. Sess., p. 115, 1990 AAG, Ann. Mtg., Program and Abstracts, Toronto.
- James, L. A. 1990. *Sediment storage potential: An example of two dissimilar California Basins*. In Abstracts, 45th Mtg., AAG, Div., Columbia, SC: p. 14.
- \_\_\_\_\_ 1989. *Contrasting styles of sediment storage and transport: Hydraulic mining sediment in the South Yuba vs. Bear rivers*. Erosion and Sedimentation Committee; Trans., Amer. Geophysical Union, Ann. Fall Mtg., S.F.; Dec., 1989: pp. 1123-24.
- \_\_\_\_\_ 1989. *Sustained reworking of hydraulic mining sediment in California: G.K. Gilbert's sediment wave model reconsidered*. Second Internat. Conf. on Geomorphology: Geomorphology and Geoecology, Frankfurt, am Main, F.R. Germany. Sept.: pp. 136-37.
- \_\_\_\_\_ 1989. *Hydraulic gold mining sediment remaining in the Bear River, California*. In AAG, Program and Abstracts, Nystrom Award Spec. Sess., Balt., MD. p. 95.
- \_\_\_\_\_ 1988. *Hydrologic evidence of conditions conducive to sediment storage in the Southern Coastal Plain*. Geomorphic Hazards & Sedimentation Spec. Sess., SEDAAG, Ann. Mtg., Nov.20-22, Mobile, AL.
- \_\_\_\_\_ 1988. *Contemporaneous and recent channel morphological responses to hydraulic mining sediment production*. Abstracts with Programs, Geol. Soc. Am., Denver, CO: p. A362.
- \_\_\_\_\_ 1988. *Quartz concentration as an index of alluvial mixing of hydraulic mine tailings with other sediment in the Sierra Nevada, California*. Fluvial Geomorphology Special Session. In 1988 Assn. Am.er. Geogs., Ann. Mtg., Program and Abstracts, Phoenix, AZ, p. 87.

### **OTHER ORAL PAPER PRESENTATIONS** (continued)

- \_\_\_\_\_ 1987. *Rates of organic carbon accumulation in young soils in front of the Burroughs Glacier, Glacier Bay, Alaska*. In Abs., S.E. Div., AAG, Charlotte, NC; p. 20.
- \_\_\_\_\_ 1987. *Sustained storage of hydraulic mining sediment: Bear River, Sierra Nevada, California*. Fluvial Geomorph. spec. session. In 1987 AAG, Ann. Mtg., Program and Abstracts. Portland, OR, p. 47.
- \_\_\_\_\_ 1986. *Hydraulic mining debris in Bear River, northern Sierra Nevada, California: Delivery, storage, and transport of episodically introduced sediment*. Fluvial Geomorphology Spec. Sess. In AAG, Abstracts. Nat. Mtg., Minneapolis: Paper No. 81.
- \_\_\_\_\_ 1985. *Timing of channel incision into hydraulic mining debris: Bear River, Calif*. In AAG, Program Abstracts. Nat. Mtg., Detroit: Ppr. No. 193.
- \_\_\_\_\_ 1984. *Hydraulic mining debris along the Bear River, California*. Fluvial Geomorphology Special Session. In AAG, Program Abstracts, 1984, p. 143. Nat. Mtg., Wash., DC.
- \_\_\_\_\_ 1981. *Channel Response to Moderate Magnitude Floods Following an Extreme Event: Kickapoo River, Southwest Wisc.* p. 149, Program Abstracts, AAG Nat. Mtg., Los Angeles.

### **POSTERS and PANEL DISCUSSIONS**

- James, L.A., Monahan, C., Ertis, B., Purchase, C. 2018. *Using LiDAR and spatial modeling to map mine tailings in the Sierra Nevada, California*. I.S.RIVERS, June 5, 2018, Lyon, France.
- James, L.A. 2017. Poster: *Going to be the fires and the floods next time*, Geological Soc. America, Seattle, WA. Oct. 23, 2017.
- MacLeod, K.,\* Russell, P., James, L.A. 2012. Poster: *Modeling intermittent and perennial headwater streams in North Carolina*. Southeastern Division, Assoc. Amer. Geog., Ann. Mtg., Asheville, NC.
- Ghoshal, S. and L.A. James. 2010. Poster: *Floodplain and channel change analysis using DEM differencing: Lower Yuba River, California*. Binghamton Geomorphology Symp., Columbia, SC.
- Panelist: *South Carolina Hydrographic Data Users Group*. South Carolina GIS Conference, Jan., 2010.
- Panelist: *South Carolina Hydrographic Data Users Group*. South Carolina Water Resources Conference, Oct., 2010.
- Panelist: *Multi-scale assessments in water resources: Basic challenges in current research*. Assn. American Geographers (AAG), annual meeting, Washington, D.C., April 16, 2010.

**POSTERS and PANEL DISCUSSIONS (continued)**

- Panelist: *South Carolina Hydrographic Data Users Group*. South Carolina Arc GIS Conference; Jan. 25, 2010.
- Panelist: “*The State of SEDAAG: A forum on the future of the regional division.*” Southeastern Div. AAG (SEDAAG), Greensboro, N.C., Nov., 24, 2008.
- James, L. A. and M. Megison. 2008. Poster: *Channel Changes on the Lower Feather River*. Workshop on High Resolution Topographic Data. Boulder, CO. June 16, 2008.
- James, L. A., S. Ghoshal, M. Megison, M. Singer, R. Aalto. 2007. Poster: *Legacy sediments and channel morphology in the Feather and Yuba Rivers, California*. American Geophysical Union, ann. mtg., San Francisco.
- Ghoshal, S. and L. A. James. 2007. Poster: *Channel morphological changes in the Yuba River, California, in the post-hydraulic mining period*. American Geophysical Union, ann. mtg., San Francisco.
- Ghoshal, S., L. A. James, M. B. Singer, R. E. Aalto. 2006. Poster: *Erosion of hydraulic mining sediment and channel change: Sacramento Valley, California*. Binghamton Geomorphology Symp., *The Human Role in Changing Fluvial Systems*; Columbia, SC; Oct., 2006.
- Panelist: “*Learning to Publish: The Rules, Risks, and Rewards,*” Invited; SEDAAG, Nov., 2004; Biloxi, MS.
- James, L. A., 2003. Poster: *Glacially Eroded Landforms in the Northwestern Sierra Nevada, California*. 16th Internat. Quaternary Commission (INQUA) Congress, Reno, Nevada.
- \_\_\_\_\_ 2003. Organizer and Panel Discussant: *Geographic Perspectives on the International Year of Fresh Water*. Assn. Amer. Geogs. (AAG) Ann. Mtg., New Orleans, March, 2003.
- James, L. A. 2001. Poster: *Glaciation in the Northwest Sierra Nevada, California*, Internat. Binghamton Geomorph. Symp., Oct. 20 & 21, 2001, Univ. No. Carolina, Chapel Hill; 2001.
- James, L. A. and G. Carbone. 2001. Illustrated Paper: *Rainfall-runoff relations in a paired watershed study: Exploding the Urban-Rural Dichotomy Myth.*, AAG Ann. Mtg., New York City; Feb.27-March 3, 2001.
- Carbone, G. and L. A. James. 2001. Illustrated Paper: *Spatial and temporal character of precipitation and hydrologic response in a small watershed*. AAG Ann. Mtg., New York; Feb.27-March 3, ‘01.
- James, L. A., J. Harbor, D. Fabel, and D. Dahms. 2000. Poster: *Late Quaternary Glacial Advances in Northwestern Sierra Nevada, California*. April, ‘00, AAG ann. mtg., Pittsburgh, PA.
- Harbor, J., D. Fabel, D. Dahms, and L. A. James. 2000. Poster: *Spatial Patterns of Glacial Erosion at a Valley Scale from Cosmogenic Radionuclide Concentrations*. April, ‘00, AAG nat. mtg., Pittsburgh, PA.



## ***POSTERS and PANEL DISCUSSIONS (continued)***

Dahms, D., J. Harbor, D. Fabel, and L. James. 2000. Poster: *Glacial Stratigraphy and Geomorphology of Two Alpine Valleys in Wyoming: Results of <sup>10</sup>Be and <sup>26</sup>Al Exposure Ages*. April, '00, AAG nat. mtg., Pittsburgh, PA

Panelist: *Status of Physical Geography in the Southeast*, SEDAAG ann. mtg., Tampa, FL, Nov., 1999.

James, L. A.; J. Harbor; D. Fabel; D. Dahms; and D. Elmore. 1998. Poster: *Glacial mapping in the northwestern Sierra Nevada: Preliminary cosmogenic radionuclide dates*. AAG Ann. Mtg., Boston, March, 1998.

Panelist: *Teaching water Resources Management in Geography*, Sponsored by Water Resources and Geomorphology Specialty Groups, AAG Ann. Mtg., Boston, March, 1998.

Panelist: *Hydrology in Geography -- Barriers and Bridges*, Sponsors: Friends of Hydrology & Water Resources Spec. Group, AAG Ann. Mtg., 1997. Fort Worth, TX.

Phillips, J. D., B. Gomez, F. J. Magilligan, and L. A. James. 1994. Poster: *Where's the silt?* 25th Binghamton Symp. in Geomorphology, Sept. 24-25.

James, L. A. 1993. Poster: *Glacial valley cross-section morphology: Polynomial functions as a robust alternative to the parabolic model*. 3rd Int. Geomorphology Conf. Hamilton, Ontario.

\_\_\_\_\_ 1992. Poster: *Drainage basin and channel network exercise*. Amer. Water Resources Assn., 28th Ann. Conf. and Symp., Reno, NV. presented *in absentia*.

## ***MEMBERSHIPS IN PROFESSIONAL SOCIETIES***

American Association for the Advancement of Science, 2017 to present

American Geographical Society, 1990 to present

American Geophysical Union, \*<sup>L</sup> 1989 to present

American Quaternary Association 1983 to present

American Association of Geographers (formerly Assn. Amer. Geog.) \*<sup>L</sup> 1978 to present

Geomorphology Specialty Group 1978 to present

Water Resources Spec. Group 1985 to present

Mountain Spec. Group 1999 to present

GIS Specialty Group 1991 to 1999

British Geomorphological Research Group 2003 to present

Geological Society of America 1983 to present

Quaternary Geology & Geomorphology Division 1983 to present

Engineering Geology Division 1990 to present

GeoArcheology ~2010 to present

Geology and Society Division 2003 to 2005

## **MEMBERSHIPS IN PROFESSIONAL SOCIETIES** (continued)

Geomorphometry, Scientific Committee 2010 to present  
International Assn. of Geomorphologists 1989 to present  
International Assn. Hydrological Sciences 1993 to present  
South Carolina Geographic Alliance 1991 to present  
Southeastern Division A.A.G. 1988 to present  
Union of Concerned Scientists 1990 to present  
American Soc. for Photogrammetry & Remote Sensing 1990 to 1995  
American Water Resources Association 1993 to 2010

(\*L: lifetime member)

## **PROFESSIONAL SERVICE and TECHNICAL ADVISING**

### **Editorial Boards:**

*Geomorphology* - 2004 to present. Published by Elsevier. 2017JCR Impact factor: 2.958.  
Royale Geographic Society (with Inst. British Geographers), *Advancing Geography and Geographical Learning*, book series, editorial board – 2008 to 2014.  
*Southeastern Geographer* - 2003 to 2015. Published by Univ. North Carolina Press.  
*Professional Geographer* - 1998 to 2000.

### **Professional Societies:**

#### **American Association of Geographers (AAG):**

Committee on the Status of Women in Geography, 2010 to 2016.  
AAG National Councilor, Elected, 2009 to 2012.  
AAG Honors Committee, Elected, 2006 to 2008.  
Past President, *Water Resource Spec. Group*, AAG, 2004 to 2005.  
Chair (elected), *Water Resource Specialty Group*, 2002-04.  
Co-Chair, J. Warren Nystrom Awards Committee, AAG Annual Mtg., NYC; 2001.  
Secretary-Treasurer (elected), *Water Resource Spec. Group*, 2000-02.  
Chair (elected), *Geomorphology Spec. Grp.*, 1995-1996  
Secretary-Treasurer (elected), *Geomorphology Spec. Grp.*, 1994-1995  
J. Warren Nystrom Awards Committee, 1999.  
Web Editor, *Water Resource Spec. Group*, 1999 to 2006.  
Web Editor, *Geomorphology Spec. Grp.*; 1996-2006.  
Board of Directors, *Water Resources Spec. Grp.*, AAG. 1996-98.  
Board of Advisors, *Geomorphology Spec. Grp.*, AAG. 1996-98.

#### **International Assn. of Geomorphologists (IAG):**

Executive Committee, IAG. 2018 to present.  
National delegate to IAG meeting, New Delhi, India, 2017.  
National delegate to IAG meeting, Zaragosa, Spain, 2005.

**PROFESSIONAL SERVICE and TECHNICAL ADVISING (continued)**

**Geological Society of America (GSA):**

2018 to present, GSA Representative to the U.S. National Committee on Soil Science (USNC/SS).  
2008, Organized Topical Session 13 on fluvial sediment, Houston; 24 abstracts presented.  
2007, Organized Topical Session 17 on river channels; Denver; 38 abstracts presented.  
Panelist (elected), Quaternary Geology and Geomorphology (QG&G) Division, GSA. Elected 2005-2007.

**GSA and AAG Cooperative Activities:**

*Chair, committee Internat. Assn. Geomorph. Conference Host Search Committee*, ad hoc, to develop a proposal to host 2025 IAG conference in western USA; for presentation in Columbo, Portugal in 2021.  
*IAG Conference Host Search Comm.*, ad hoc, to develop a proposal to host IAG conference in western USA in 2009. Proposal presented in Zaragoza, 2005.

**Binghamton Geomorphology Symposium**

Co-organizer (with S. Walsh and M. Bishop) & Chair Local Arrangements, 2010  
Steering committee: 2006-2009; 2010-2013  
Co-organizer (with W.A. Marcus) & Chair Local Arrangements, 2006  
Treasurer 2007 to 2010.

**International Society for Geomorphometry**

Member scientific committee; conference August/September, 2011; Redlands, California.

**American Geophysical Union**

Program committee. Representative for Natural Hazards Focus Group. 2009-2010.

**Southeastern Division of the Association American Geographers (SEDAAG):**

Endowment Committee, 2008 to 2013  
Vice President (elected), 2002-2004.  
Chair of Program Committee, 2003, 2004, and 2005.  
Secretary-newsletter editor (elected), 1998-2000.  
Honors Committee, 1998.  
State representative (elected), 1996 & 1997; 1990 & 1991.

**Advisory and Review Panels; Legal and Govt. Organizations:**

National Technical Committee for the *Ordinary High Water Mark* (NTC-OHWM).  
Interagency body for developing national and regional technical standards and guidance for OHWM delineation in U.S. waters. April, 2016 to present.  
CALFED, Technical Review Committee, *Upper Yuba River System Project* (Englebright Dam Study); Fall, 2001 to c.2006.  
Panelist. National Science Foundation, Division of Behavioral and Cognitive Sciences (BCS), Geography and Regional Science Program; four panels, 2001 to 2002.  
Testimony to FEMA review board, Jan., follow-up to filing appeal, Jan., 2000.  
Testimony before Richland County Supervisors, regarding need to appeal FEMA's revised Flood Insurance Rate Map which would allow development of Congaree River floodplain, Fall, 1999.

## ***PROFESSIONAL SERVICE and TECHNICAL ADVISING (continued)***

### **Advisory and Review Panels; Legal and Govt. Organizations (continued):**

Panelist. U.S. Environmental Protection Agency / National Science Foundation / U.S. Dept. Agriculture, *Water and Watersheds*, Peer Review Panel, August, 1999.

Panelist. U.S. Environmental Protection Agency & National Science Foundation, *Water and Watersheds*, Peer Review Panel, May, 1997.

*National Academy of Engineers, National Research Council, Water Science and Technology Board*, Committee on the American River. Fall, 1993 to Fall, 1995.

### **University South Carolina**

University Tenure and Promotion Committee, elected, 2014.

Faculty Senate, 2010-2013.

Intellectual Property Rights, Faculty Committee member, 1997-99; chair (elected) 1999-2000.

Committee on Student Academic Responsibility, member 1993-95; chair (elected) 1995-96.

Faculty Senate, elected, 1990-93.

### **College of Arts and Science, University South Carolina**

Senior Associate, Environment and Sustainability Program, USC, 2011 to 2018.

Dean's Academic Planning Council, elected, 2009-2012.

School of the Environment, MEERM Coordinating Committee; ca. 1996 to 2010.

### **Geography Department, University South Carolina**

Director, BioGeomorphology Laboratory, 1989 to 2018.

Various *ad hoc* and standing committees including curriculum, peer teaching reviews, post-tenure review, faculty searches, chair's advisory, graduate admissions, library representative, colloquia, undergraduate advisement, and faculty senate.

## **Community Involvement**

### ***Columbia, Sc***

Rocky Branch Watershed Alliance

Co-Chair, Technical Review Board, 2012 to 2016.

Technical Review Board; member 2011 to 2016.

## **Graduate Student Advisement**

### ***Ph.D. Dissertation Advisement*** (date successfully defended):

Chen-Ling Hung (April, 2018), *Catchment hydrology in the Anthropocene: Impacts of land-use and climate change on storm water runoff*.

Subhajit Ghoshal (Aug., 2011). *Planimetric and volumetric analysis of channel change in the post-hydraulic mining period (1906-2009) in the Central Valley, California*

Shama Perveen (Oct., 2008). *A scale-based assessment of spatial heterogeneity in water resources*.

## Graduate Student Advisement (continued)

**M.S. Theses Advisement;** in Geography unless noted as MEERM (Masters in Earth & Environmental Mgt.):

- Alex Butler, 2018. *Investigation of hydrogeologic change in the South Fork Edisto Basin 1981-2016.*
- Tyler Dearman, 2018. *Anthropogenic influences on sedimentation in the Chicken Creek Watershed of Fairfield County, South Carolina.*
- Logan Ress, 2018. *Impacts of storm sewer drainage systems on the stormwater hydrology of an urban watershed: Rocky Branch Watershed, Columbia, South Carolina.* MEERM.
- John Williams, 2018. *A volumetric and economic analysis of stormwater control methods in Rocky Branch Watershed.* MEERM.
- Parker D. Leslie, 2016. *Hydrologic Modeling Scenarios in a South Carolina Piedmont Drainage Basin.*
- Brett Sexton, 2014. *Potential stormwater runoff reductions by incorporating low impact development: Rocky Branch Watershed, Columbia, SC.* MEERM.
- Tanner Arrington, 2013. *Geomorphic variation of a transitional river: Blue Ridge to Piedmont, South Carolina.*
- Kevin MacLeod, 2012. *Modeling intermittent and perennial headwater stream origins in North Carolina.*
- Mary Megison, 2008. *Using LiDAR and historic maps and air photos to reconstruct channel change; Feather River, CA.*
- John Wooten, 2008. *A watershed approach to managing Rocky Branch Creek, Columbia, SC.* MEERM. Wooten received MEERM outstanding graduate student research award for this thesis.
- Duke Brantley, 2006; *Alternative ecological assessments on the 303 (d) Listed Bush River Watershed.* MEERM.
- Cindy Kolomechuk, 2001. *Gully erosion in Spartanburg County, Southern Piedmont, SC.*
- Randall Wheeler, 2000. *Soil erosion and sediment yields in Mill Creek basin, Fort Jackson, South Carolina.* MEERM.
- Alexander Shepherd, 1999. *Accuracy of Interpolations for Geologic Mapping Made from 3-D Seismic Models Using a Geographic Information System.*
- Jamilla, Sonja, 1999. *Spatial Variability of Steady State Soil Infiltration Rates: The Effect of Soil Type, Land Cover, and Topography.*
- Leigh Ann Morgan, 1998. *Post-Flood Analysis of the Benefits of Floodplain Regulations in Beaufort County, North Carolina.*
- David Alexander, 1997. *Channel Morphological Adjustment to Soil Erosion and Sedimentation at the Chicken-Strong Creek Confluence.*
- Rose Fletcher, 1996. *Development and application of historical digital orthoimage mosaic for the Savannah River Site.*
- Martin Roberge, 1995. *Topographic modeling of Lake Bonneville through the Late Pleistocene.*

***M.S. Theses Advisement (continued)***

Pat Curley, 1994. *Non-point source pollution risk assessment classification: Identifying critical erosion areas in small watersheds, South Carolina.*

Andrew Cordova, 1991. *Effectiveness of a Sediment and Erosion Control Ordinance: Richland County, South Carolina.*

***Non-thesis M.S. directed:*** Erich Miarka (2012, MEERM); Jingting Sun (2013, MEERM)

***Dissertation Committee Reader*** - USC Geography unless otherwise indicated (year completed):

Kerry Castle-MacCartney (2010, Geology); Laura Stroup (2008); Phillip Yates (2006, Statistics); Preston Helms (2002, Civil & Env. Engr); Jeannie Eidson (2000; Env. Health Sciences); Jonathon Byron (1999); Eric Dobson (1998), Francois Smith (1998); Ron Marple (1994, Geosciences); Cheryl Hallum (1993); Drew Decker (1991).

***Dissertation Committee Reader (defense pending)*** – Erika Chin; Chris Kaase; Aashka Patel.

***Theses Committee Reader*** - USC Geography unless otherwise indicated (year completed):

Brandon Ertis (2018, Calif. State Univ., Chico); Jeon Kyungho (2014, Earth and Ocean Sciences); Josh Leisen (2012); Shelby Zelonis (2010); Seth Dailey (2008); Bates Rambow (2008); Tammy Ryan (2007, MEERM); Kimberly Mierdas (2006); Douglas Mayes (2006); Joe Dickerson (2005); Kristi Suggs (2005, MEERM); Laura Stroup (2004); Shawn Lowe (2004, CEE); Tom Toland (2003); Mary Kosko (2002; Anthropology); Diane Zehrhuhs (2001, Geology); Melinda Young (2000); Jaqueline Luders (2000); Judith Berglund (1999); Barret Stone (1999, Env. Health Sci.); Jennifer Curtis (1998, Geology, CSU, Humboldt); Charmel Menzel (1998); Renee Greenwell (1997, MEERM); James McCallion (1997); Katie Laddish (1996, Geology, U.C. Davis); Rick Collins, Shan Burkhalter, Peter Bramante (1994), Michael Burdette (1994); Paul Holt (1991); Chris Keithly (1991), Oliver Weatherbee (1991); David Wigle (1990).

***Non-thesis committee member:*** Adewale Adeluyi (2014; Env. Health Sciences), Mat Sposato (1995), Francoise Smith (1994), Theresa Martin (1993).

***FIELD TRIPS & FIELD EXPEDITIONS LED***

(Not including numerous one- to three-day course field trips or individual field work.)

Field expedition to Sacramento Valley; led four students to California (1 undergrad, two MS, and a PhD). Sediment sampling, river rafting, topographic surveying, and collecting ground-control points. Funded by NSF: *Tracking hydraulic mining sediment*. Eight weeks. Summer, 2007.

*Tracking Hydraulic Mining Sediment*, three-day excursion to Sierra Nevada and Sacramento Valley from San Francisco, *Assn. Amer. Geographers*, National meeting. Sunday to Tuesday, March 15 - 17, 2007. Co-led with Michael Singer and Rolf Aalto.

**FIELD TRIPS & FIELD EXPEDITIONS LED** (continued)

Field expedition to Sacramento Valley; led five students. Sediment sampling, topographic surveying, and river rafting. Funded by NSF: *Tracking hydraulic mining sediment*. Six weeks. Summer, 2006.

*Glaciation in the Northwest Sierra Nevada*, one-day field excursion. *International Union for Quaternary Research* (INQUA), Reno, Nevada. (July, 2003).

Field Camp in Rattlesnake Canyon, northern Sierra Nevada; led one M.S. student. Mapping lateral glacial moraines, digging soil pits, sampling boulders for cosmogenic radionuclide surface-exposure dating. Funded by NSF: *Reconstructing spatial patterns of glacial erosion*. Four weeks. summer, 1999.

Field Camp, Rattlesnake Canyon, northern Sierra Nevada; Led two PhD students and one undergrad. Sampling boulders for cosmogenic radionuclide surface-exposure dating. Funded by NSF: *Reconstructing spatial patterns of glacial erosion*. Six weeks. Summer, 1997.

Field Camp, Grouse Ridge, Sierra Nevada; led five students and post doc. Mapping lateral moraines, sampling boulders for cosmogenic radionuclide surface-exposure dating. Funded by NSF: *Reconstructing spatial patterns of glacial erosion*. Two weeks. Summer, 1996.

Geology Field Camp on Six-Mile Meadow, northern Sierra Nevada; led 12 students and 2 teaching assistants. Glacial mapping and fluvial-environmental field techniques; Dept. Geology, Univ. Calif., Davis. Two weeks. Summer, 1996.

Northern Sierra Nevada, Calif., Assn. Amer. Geographers, April 1-3, 1994 National Meeting in San Francisco. 2½-day field trip. Organized with Jerry Davis.