

TITLE AND CONTACT FORMATION

Professor: Forest Hydrology, Physical Hydrology, Water Quality

Interim Director: Division of Forestry and Natural Resources

Director: Institute of Water Security and Science

West Virginia University, Davis College, School of Natural Resources

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ResearchGate Profile: https://www.researchgate.net/profile/Jason_Hubbart2

EDUCATION

Degree: **Ph.D., 2007, Natural Resources: Physical Hydrology and Watershed Management**

Institution: University of Idaho, Moscow, Idaho, USA

Dissertation: Measuring and Modeling Hydrologic Response to Timber Harvest in a Continental/Maritime Mountainous Environment

Advisor: Dr. Timothy E. Link

Degree: **M.S., 2002, Biology: Forest Ecology and Mammalogy**

Institution: California State University Fresno, Fresno, California, USA

Thesis: Chemical Composition of the Hair of the California Ground Squirrel (*Spermophilus beecheyi*) as an Indicator of Heavy Metals and Environmental Stress

Advisor: Dr. David L. Chesemore

Degree: **B.S., 2000, Ecology**

Institution: California State University Fresno, Fresno, California, USA

Advisor: Dr. David E. Grubbs

LEADERSHIP CERTIFICATES

Certificate **March 2021, Change Management.** Cornell University, Ithaca, New York, USA.

Objective: Multiple courses to develop skills to understand organizational power hierarchies and implement organizational change decision making.

Certificate **January 2021, Performance Leadership.** Cornell University, Ithaca, New York, USA.

Objective: Multiple courses about developing credibility as a leader and building confidence in my leadership style as I become more attuned to the behavioral dynamics of others.

Certificate **June 2020, Executive Leadership.** Cornell University, Ithaca, New York, USA.

Objective: Multiple courses to develop the critical skills necessary to lead an organization to success.

Certificate **May 2020, Fellow: Academic Leadership Academy.** The Penn State University, State College, PA, USA.

Objective: A year-long program covering a range of subjects relevant to academic leaders such as leading equitably, career planning, fostering inclusion and sense of belonging in the campus community, communicating about budgets during difficult times, navigating changing policy contexts, and legal perspectives and issues.

Certificate **February 2019, LEAD21, *Fellow: Leadership for the 21st Century, Class 14.*** College of Agriculture and Environmental Sciences, University of Georgia, Athens, GA, USA.
Objective: To develop leaders in land grant institutions and their strategic partners who link research, academics, and extension in order to lead more effectively in an increasingly complex environment, either in their current position or as they aspire to other positions

PROFESSIONAL LEADERSHIP EXPERIENCE

01/2022 – 07/2022 **Interim Director Division of Forestry and Natural Resources** – Davis College of Agriculture, Natural Resources and Design, West Virginia University.

The Division consists of five separate academic programs: Energy Land Management, Forest Resources Management, Recreation, Parks and Tourism Resources, Wildlife and Fisheries Management, and Wood Science Technology. As Interim Director, I am responsible for approximately 35 tenure-track faculty members, 12 non-tenure track instructors and embedded federal/state employees, approximately 550 undergraduate students and 80 graduate students, with an approximately \$5 million annual budget. I am also responsible for the University Research Forest system, with approximately 9000 acres of forested lands across West Virginia.

Select Accomplishments to Date: I am leading a complete Division fiscal review, Academic review, and Strategic planning process, including development of the Mission, and tactics to advance Division organization and progress for the next five years. I am deeply engaged in donor and foundation relations. Outcomes in 2022 to date include \$150K Equitrans Midstream Foundation grant, \$500K donation for development of a Center for Forestry Entrepreneurship, and a large taxidermy collection donation to the WVU DFNr Natural History Museum.

01/2022 – Present **Director of Water Initiatives** – Davis College of Agriculture, Natural Resources and Design, West Virginia University.

- Facilitate collaborative, multidisciplinary teams to pursue competitive grants and develop proposals addressing contemporary water resources challenges from state to international scales
- Serve as statewide multi-institutional technical and administrative point of contact for the Davis College of Agriculture
- Facilitate development of water-focused conferences, symposia, and workshops to advance water related issues at WVU and in WV

Select Accomplishments to Date: In the first six-weeks of this assignment, a collaborative research proposal including faculty from three colleges on the WVU campus (Agriculture, Arts and Sciences, Engineering) has been recently submitted to the National Science Foundation STEM education program (\$1.5M).

08/2020 – 07/2022 **Director: WVU Water Industrial Advisory Counsel.** Committed to the development of optimal solutions for best freshwater management practices using basic research, industrial collaboration, public outreach, and education.

- Organize and conduct quarterly meetings and facilitate collaborations, interactions, and action items
- Develop projects and activities involving IAC Members and academic participants

- Facilitate workshops and career fairs for students and faculty to understand industry careers and needed academic preparation
- Serve as a liaison for areas of expertise sought by industry partners

Select Accomplishments to Date: Develop and convene career fairs for students in Water Resources educational programs in West Virginia (multiple institutions); creating student opportunities for summer internships with local municipalities, state and federal agencies, and modes of information transfer for education priorities.

01/2016 – Present **Full Professor** of Physical Hydrology and Water Quality – Davis College of Agriculture, Natural Resources and Design, West Virginia University.

Appointment: 45% Teaching/45% Research/10% Service. School of Natural Resources, Division of Forestry and Natural Resources.

Select Accomplishments (also includes University of Missouri productivity): More than 125 peer reviewed publications, over \$44M in external funding, 25 completed graduate students, multiple courses taught, professional development completed, and forms of recognition received (please see details below).

01/2016 – 7/2022 **Director, Institute of Water Security and Science (IWSS)** – West Virginia University. In response to current WVU Campus restructuring, including fiscal operations of Units, and in recognition of the successes of the IWSS, the institute is being administratively folded in to the College of Agriculture, Natural Resources and Design as of July 1, 2022.

The mission of the Institute of Water Security and Science (IWSS) is to advance discovery of sustainable solutions addressing contemporary water quality, quantity, management and use problems, while strengthening West Virginia's water security, and environmental, economic, social and cultural wellbeing, and broadening WVU water stewardship impact.

- I serve as the inaugural director of cross-campus Water Institute, currently comprising over 80 active collaborators (five WVU Colleges), and over 120 affiliates (multiple institutions, Federal and State agencies). Current annual budget surpassing \$3.5M/yr.
- We develop collaborative, multidisciplinary teams to address current and emergent needs related to water quantity, quality, and security, at a variety of scales and across the range of natural and social sciences.
- We develop watershed scale programs (outdoor laboratories) to facilitate multi- and interdisciplinary research.
- I serve as statewide multi-institutional technical and administrative lead for current Established Program to Stimulate Competitive Research (EPSCoR), Appalachian Freshwater Initiative (\$10M).
- I develop and facilitate cross WVU campus and cross-state water-focused conferences, symposia and workshops to advance water-related issues at WVU and in WV.

Select Accomplishments: Generated more than \$28M to date in external funding through more than 30 projects and affiliated projects; developed the first cross-campus and College grant pre-award development office (now adopted in the Davis College). Developed a network of over 320 Institute affiliates. Participated in development in a West Virginia Water Implementation Plan. Convened more than twenty symposiums, conferences, seminars. Significantly broadened the water resources capacity and presence in West Virginia.

06/2020 – 07/2022 **Co-Director of Research** (by Memorandum of Understanding) for the Fernow Experimental Forest, in collaboration with the United States Forest Service, Parsons, West Virginia, USA.

Select Accomplishments: Equipped 11 stream gauge sites with hydroclimate monitoring infrastructure. Developed and hired personnel into a research field hydrologist position. Assisted with development of a research committee of leading water resources scientists in the northeast region. Assisted with development of research priorities for the next 10 years.

01/2020 – 12/2021 **Associate Director of Research** – Division of Plant and Soil Sciences, Davis College of Agriculture, Natural Resources and Design, West Virginia University.

- I served as the primary point of contact for approximately 26 faculty (tenure and professional track) in the Division.
- Developed and delivered research related workshops (grant writing, proposals, funding sources, program development)
- Served as primary point of contact to the West Virginia University Research Corporation for the Division.
- Assisted the Division Director with annual faculty and staff evaluations for research productivity
- Oversaw committee processes, shared governance processes and policies
- Developed and delivered workshops and training for faculty development and advancement

Select Accomplishments: I developed the first Policy Committee in the Division as well as the College and chaired that committee. We developed the very first policies on A) diversity, equity and inclusion, B) policy committee functioning and purview, C) faculty mentoring, and D) adjunct faculty. I also developed a five-year strategic plan for research in the Division that included a twenty-year evaluation of research by Division, Program and Individual. I mentored faculty in their teaching and research program(s) development and supported their professional development opportunities.

01/2016 – 08/2017 **Assistant Director: West Virginia Agricultural and Forestry Experiment Station**
and 04/2019 – Present

- Assisted with coordination of Federal capacity funds (Hatch, McIntire-Stennis) for advancement of land-grant college mission
- Worked with College faculty and Division directors to target and design funding initiatives
- Developed and directed College grants and contracts office to provide administrative pre-award assistance (organizing, submitting, and tracking) to reduce time investment and improve grant success
- Designed workshops to advance research opportunities and successful funding for faculty of Davis College of Agriculture, Natural Resources and Design
- Provided information pertaining to specific funding streams for faculty and provide learning sessions to familiarize and facilitate faculty with external funding opportunities

Select Accomplishments: I reorganized and streamlined annual Hatch (federal capacity funds) reporting that was jointly reported with West Virginia State University (HBCU). I developed quantitative metrics that enabled simplifying faculty annual Hatch reporting, and also identified scientific advancements and, thus, Public Relations opportunities. I assisted in reframing the concept of projects vs. programs

to improve reporting processes, and advance faculty research program strategic planning.

08/2017 – 04/2019 **Associate Dean for Research** – Davis College of Agriculture, Natural Resources and Design, West Virginia University.

- Primary research point of contact for the 130 faculty and administrators (teaching/research) in the Davis College
- Responsible for review and approval of formula-funded projects (Hatch and McIntire-Stennis). Assign/approve WVU faculty to the “Appendix E” for projects in the NIMSS system.
- Serve as primary approver for competitive project proposals from the DCANRD
- Write and submit annual National Institute of Food and Agriculture Hatch and McIntire Stennis formula funding reports each year; includes the Experiment Station Plan of Work, and Station Accomplishments report, Animal Use and Care report (including all programs)
- Serve as primary point of contact to the West Virginia University Research Corporation

Select Accomplishments: Increased College external grant research productivity by over \$3M/yr (100% increase??). Conducted annual faculty evaluations for research productivity in the College and evaluations of staff that answer to the Associate Dean of Research. Developed Faculty startup plan, including (but not limited to) Hatch salary, Hatch funding of summer salary, assistantship(s), etc., in close coordination with the provost’s office. Developed the College five-year research plan. Developed symposia, and seminars. Developed grant writing workshops. Developed a start-up model for new faculty start up packages. Developed the first College faculty Mentoring Plan. Developed a College Research website.

08/2017 – 04/2019 **Associate Director:** West Virginia Agricultural and Forestry Experiment Station, West Virginia, USA.

- Served as point of contact for Federal funding agencies
- Served as member of the Northeast Region of the APLU. Attended quarterly meetings.
- Provided primary approval and directed process for new, renewing, or terminated Hatch projects in the DCANRD.
- Served other similar roles as current Assistant Director role (detailed above).

08/2017 – 04/2019 **Associate Director of International Programs**, Davis College of Agriculture, Natural Resources and Design, West Virginia University.

- Served as the Liaison between Campus International Programs office and the Davis College.
- Worked with faculty to develop study abroad programs.
- Developed cooperative agreement between the Davis College of Agriculture and LaSalle University, Paris France.

07/2013 – 09/2015 **Superintendent:** Baskett Wildlife, Research and Education Center. College of Agriculture, Food and Natural Resources, University of Missouri, Columbia, Missouri, USA.

06/2013 – 12/2015 **Director:** Center for Watershed Management and Water Quality. College of Agriculture, Food and Natural Resources, University of Missouri, Columbia, Missouri, USA.

- 06/2013 – 12/2015 **Associate Professor** of Forest Hydrology, Department of Forestry, School of Natural Resources, University of Missouri, Columbia, Missouri, USA.
- 05/2013 – 12/2015 **Director** of Graduate Studies. School of Natural Resources, Water Resources Graduate Degree Emphasis Area, University of Missouri, Columbia, Missouri, USA.
- 01/2013 – 12/2015 **Principal Investigator**, Lead Scientist: Missouri Ameriflux “MoFlux” project. A component of Oak Ridge National Lab’s Terrestrial Ecosystem Science-Science Focus Area, funded by the US Department of Energy, Office of Science.
- 08/2007 – 06/2013 **Assistant Professor** of Forest Hydrology, Department of Forestry, School of Natural Resources, University of Missouri, Columbia, Missouri, USA.
- 07/2002 – 5/2003 **Adjunct Professor** of Biology, College of Science and Mathematics, Fresno City College, Fresno, California, USA.
- 05/2001 – 5/2003 **Fish and Wildlife Scientist**, United States Department of Agriculture, California Department of Fish and Game, San Joaquin Timberlands Division.

PROFESSIONAL DEVELOPMENT

- 1) **Certificate.** 2022. Harassment & Discrimination Prevention & Meridians, Title Nine (IX) Training. Online self-paced course at getInclusive.com, and the West Virginia University Division of Diversity, Equity and Inclusion, 2/13/2022.
- 2) **Faculty Staff Equity Assurance & Title IX Training.** WVU BOG Governance Rule 1.6. 2022. Amy Kittle, WVU, 1/7/22
- 3) **Certificate.** 2021. Ethics Training. A Certificate for completion of the biennially required State Purchasing Card Certification Training by the West Virginia State Auditor’s Office. August 10th, 2021.
- 4) **Certificate.** 2021. WVU Cardholder Training. A Certificate for completion of the biennially required State Purchasing Card Certification Training by the West Virginia State Auditor’s Office. August 10th, 2021.
- 5) **Certificate:** Human Research: Social and Behavioral Research Investigators. 2021. Certificate of completion for a series of short courses leading to a certificate of study related to human research standard operating procedures. Online training, West Virginia University, USA. Record No: 43032540, Valid 22-July 2021 through 21-July 2025.
- 6) **Belmont Report and It’s Principles (ID: 1127).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 10-June 2021.
- 7) **Populations in Research Requiring Additional Consideration and/or Protections (ID: 16680).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 20-June 2021.
- 8) **Defining Research with Human Subjects (ID: 491).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 21-June 2021.
- 9) **The Federal Regulations - SBE (ID: 502).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 21-June 2021.
- 10) **Assessing Risk - SBE (ID: 503).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 21-June 2021.
- 11) **Informed Consent - SBE (ID: 504).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 22-June 2021.

- 12) **Privacy and Confidentiality - SBE (ID: 505).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 22-June 2021.
- 13) **Research with Children - SBE (ID: 507).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 22-June 2021.
- 14) **Research and HIPAA Privacy Protections (ID: 14).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 22-June 2021.
- 15) **West Virginia University: Human Research: Social and Behavioral Research Investigators Regulations (ID: 1546).** 2021. A required course for Human Research: Social and Behavioral Research Investigators Certification. Online training, West Virginia University, USA. Record No: 43032540. 22-June 2021.
- 16) **Certificate: I-Corps Regional Course (National Science Foundation).** 2021. Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 28-May 2021 – 7-July 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 17) **What is Customer Discovery, I-Corps Regional Course: Module 1.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 28-May 2021 – 5-June 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 18) **Identifying Customers, I-Corps Regional Course: Module 2.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 5-June 2021 – 12-June 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 19) **Defining the Value Proposition and Customer Archetype, I-Corps Regional Course: Module 3.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 12-June 2021 – 19-June 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 20) **Learning How to Conduct Interviews, I-Corps Regional Course: Module 4.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 19-June 2021 – 26-June 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 21) **Conducting Customer Interviews, I-Corps Regional Course: Module 5.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 26-June 2021 – 3-July 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 22) **Presenting Customer Related Findings and How to Advance the Process, I-Corps Regional Course: Module 6.** 2021. An online required course to achieve Certification. I-Corps Regional Course (National Science Foundation). Training to explore market potential of a deep technology innovation, and learn entrepreneurial skills. 3-July 2021 – 7-July 2021. Cornell University. E-Cornell online certificate program, Cornell University, USA.
- 23) **Certificate: Change Management.** 2021. Graduate of the Cornell Change Management certificate program, March 1st, 2021. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.

- 24) **Leading Strategic Change Initiatives.** 2021. Cornell Leadership Program, February 17-March 2. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 25) **Three Steps to StartUp Venture Fair.** 2021. A workshop for entrepreneurs across West Virginia, March 9th and 10th, 2021. Sponsored by TechConnect West Virginia.
- 26) **Certificate: Performance Leadership.** 2021. Graduate of the Cornell Performance Leadership certificate program, January 31st, 2021. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 27) **Negotiation Skills.** 2021. Cornell Leadership Program, February 3-16. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 28) **Navigating Power Relationships.** 2021. Cornell Leadership Program, January 20-February 2. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 29) **Performance Management.** A workshop to enhance employer understanding of annual reviews and how to align employee goals and responsibilities, to organization performance objectives, coaching, feedback and recognition. December 15, 2020. WVU Division of Talent and Culture, West Virginia University, USA.
- 30) **Certificate: Executive Leadership.** 2020. Graduate of the Cornell Executive Leadership certificate program (included eight two-week courses), June 25th, 2020. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 31) **Leading Organizational Change.** 2020. Cornell Leadership Program, April 15-28. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 32) **Leading Across International Cultures.** 2020. Cornell Leadership Program, June 10-23. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 33) **Coaching Skills for Leaders.** 2020. Cornell Leadership Program, May 27-June 9. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 34) **Motivating People for High Performance.** 2020. Cornell Leadership Program, May 27-June 9. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 35) **Strategic Decision Making.** 2020. Cornell Leadership Program, May 13-26. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 36) **Quality and Service Excellence.** 2020. Cornell Leadership Program, April 29-May 12. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 37) **Leading Collaborative Teams.** 2020. Cornell Leadership Program, April 15-28. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 38) **Leading in a Crisis.** April 16th, 2020. Leading in times of crisis, and communicating new and evolving strategies with calm, strength, and clarity. Harvard Extension School. A Free Webinar from Harvard University with Pamela Rucker.
- 39) **Faculty Research Support Programs and Grant Challenges.** April 14th, 2020. How to manage faculty research support programs, including Grand Challenges. A webinar by the Research Development Office at the University of Maryland, College Park.
- 40) **Leading with Credibility.** 2020. Cornell Leadership Program, April 1-14. Cornell University. E-Cornell online certificate program, an online learning subsidiary of Cornell University, USA.
- 41) **Certificate.** 2020. ThermoFisher Scientific, Trace Elemental Analysis Education Week. Training Course on Sample Preparation and Introduction, Instrument Technology and Troubleshooting Hints and Tips. 20th to the 24th of 2020. ThermoFisher Scientific, London, England.

- 42) **What is Implicit Bias?** An overview of implicit bias and demonstrate how even those with the best of intentions can allow inherent assumptions to cloud their judgement. February 24, 2020. West Virginia University Division of Diversity, Equity and Inclusion.
- 43) **The Challenge of Change.** Tools and strategies to adapt and build more effective relationships in times of change. February 20, 2020. WVU Division of Talent and Culture, West Virginia University, USA.
- 44) **Best Practices of Recognition.** Best practices in recognition of direct reports and supervisors. January 21, 2020. WVU Division of Talent and Culture, West Virginia University, USA.
- 45) **International Disclosure.** The importance of disclosure in international collaboration. January 9, 2020. WVU Division of Talent and Culture, West Virginia University, USA.
- 46) **Academic Leadership Academy (Fellow):** Penn State College of Education, Center for the Study of Higher Education, 2019 Participate Cohort, June 2019 – May 2020, The Penn State University, Pennsylvania, PA, USA.
- 47) **Productive Performance** Conversations Workshop. September 5th, 2019. West Virginia University Leadership & Organization Development. WVU Division of Talent and Culture, West Virginia University, USA.
- 48) **Ethics Training:** West Virginia State Training by the West Virginia State Auditor's Office, Purchasing Card Division, 10/15/2019.
- 49) **LEAD21:** Leadership for the 21st Century, Class 14, June 2018 - February 2019. Specialized program providing leadership and professional development training for faculty and professionals within the land-grant system. Administered through the Office of Learning & Organizational Development, College of Agriculture & Environmental Sciences, University of Georgia, USA.
- 50) **Building Trust While Motivating Your Team,** October 10th, 2018. West Virginia University Leadership & Organization Development. WVU Division of Talent and Culture, West Virginia University, USA.
- 51) **Income Opportunities on Reclaimed Mine Lands** in Central Appalachia. January 29, 2018. Training session hosted by the West Virginia Coal Association. Charleston, West Virginia, Civic Center.
- 52) **Ethics Training:** West Virginia State Training by the West Virginia State Auditor's Office, Purchasing Card Division, 12/2/2017.
- 53) West Virginia University, Teaching and Learning Commons, Faculty Evaluation, Promotion and Tenure Session: Evansdale Campus., 8-30-2017.
- 54) West Virginia University, Information Technology Services, eCampus 101 Training 8-28-2017.
- 55) West Virginia University, Environmental Health and Safety Hazard Communication Training 8-9-2017.
- 56) West Virginia University, Environmental Health and Safety Hazardous Waste Training 8-9-2017.
- 57) West Virginia University, Environmental Health and Safety Training 8-9-2017.
- 58) Performance Management: Supervisor Training. West Virginia University, Davis College, Evansdale Campus, July 25, 2017.
- 59) Leadership & Organization Development: Peer to Supervisor Workshop, West Virginia University, Rhododendron Room, Mountainlair, April 25, 2017.
- 60) Building a Foundation: Discrimination Prevention & Title IX Training. University of Missouri System, 321 University Hall, Columbia, Missouri, February 16, 2017.
- 61) West Virginia University Advance Advocates Equity and Diversity Luncheon: WVU Erickson Alumni Center Ruby Grand Hall, February 23rd, 2016.
- 62) West Virginia State Auditor's Office Purchasing Card and Purchasing Ethics Training, January 5th, 2016.
- 63) University of Missouri, National Science Foundation, EPSCoR "all hands" meeting, February 27th, 2015.

- 64) University of Missouri, Online training courses: Harassment: What It Is and How to Stop It. December 10, 2014. Supported by MU Human Resources.
- 65) University of Missouri, Online training courses: Harassment: Mandated Reporter Training. December 10, 2014. Supported by MU Human Resources.
- 66) University of Missouri, Online Information Security Training Modules; 1) You are the target, 2) Social Engineering, 3) Email and Instant Messaging, and Mobile Devices. August 12, 2014. Supported by MU Campus Information Security.
- 67) College of Agriculture, Food and Natural Resources (CAFNR). Obtained funding and organized three Center for Watershed Management and Water Quality meetings in 2014 (3-28, 4-24, 9-16). Supported financially by Mizzou Advantage and CAFNR.
- 68) Water and Society Group. University of Missouri campus organization to improve scientific conveyance to the general public, 2013, 2014.
- 69) Civility, You, and Mizzou. Online Learning Module. Certified module completion, June 17, 2013 by the Chancellor's Diversity Initiative and Show Me Respect Campaign, University of Missouri.
- 70) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 2013.
- 71) The World Awaits: Fulbright Opportunities for MU Faculty. Tuesday, April 23, 2013. Application process training.
- 72) 2013 – Fellow: College of Agriculture, Food and Natural Resources (CAFNR) Communications Fellowship Program.
- 73) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 2012.
- 74) Celebration of Teaching, University of Missouri Annual Conference on Teaching, May 15-16th, 2011.
- 75) College of Agriculture, Food and Natural Resources (CAFNR) Promotion and Tenure Workshop, May 8, 2012. Christopher S. Bond Life Sciences Center, University of Missouri.
- 76) University of Missouri, Celebration of Teaching. Preconference workshop: eLearning Compass: The present and future of eLearning at Mizzou, May 15, 2012.
- 77) People Soft Training. College of Agriculture Food and Natural Resources, Time and Labor training using Oracle, Approver's training, August 5, 2011.
- 78) People Soft Training. College of Agriculture Food and Natural Resources, Time and Labor training using Oracle, Travelers's training, August 1, 2011.
- 79) FERPA: Your Friend or Foe. FERPA training in the College of Agriculture Food and Natural Resources (CAFNR), June 3, 2011.
- 80) Preconference Workshop – Creativity in the Classroom, Celebration of Teaching Excellence, University of Missouri, Reynolds Alumni Center & Cornell Hall, May 17th, 2011.
- 81) Celebration of Teaching Excellence, University of Missouri, Reynolds Alumni Center & Cornell Hall May 17-18th, 2011.
- 82) College of Agriculture, Food and Natural Resources (CAFNR) Promotion and Tenure Workshop, May 16, 2011. Anheuser Busch Natural Resources Building.
- 83) Promotion & Tenure Workshops, Sponsored by the Office of the Provost, University of Missouri, Jesse Wrench Auditorium, May 4th, 2011.
- 84) Geosyntec Consultants, Stormwater Management Workshop and Roundtable. September 20, 2010. Principles of effective stormwater management and planning, Columbia, MO.
- 85) 2010 Educational Technologies at Missouri, Technology Conference. April 13-14, 2010. Columbia, MO.
- 86) University of Missouri, Campus Writing Program. April 2010. Lunch with the veterans, an opportunity to meet and train with veteran Writing Intensive faculty, for those attending workshops in 2009 and 2010. University of Missouri, Columbia, MO.
- 87) University of Missouri Environmental Health and Safety, Chemical Management for Working with Chemicals. January 25, 2010, Columbia, MO.
- 88) Mizzou Advance Partnerships for Adaptation, Implementation, and Dissemination: Gender Equity in STEM (Science, Technology, Engineering, Math) at the University of Missouri, Columbia. October

- 27, 2009. A Knock at the Door, An Interactive Theatre Project Funded by NSF Advance, Training for current and future CAFNR Search Committee Members.
- 89) Mizzou Advance Partnerships for Adaptation, Implementation, and Dissemination: Gender Equity in STEM at the University of Missouri, Columbia. March 3, 2009.
- 90) CAFNR Teaching Symposium, January 15, 2009. University of Missouri, Columbia, MO.
- 91) New Faculty Teaching Scholars Program (NFTS). 2008-2009. University of Missouri program dedicated to promoting the success of new faculty. University of Missouri, Columbia, MO.
- 92) Campus Writing Programs 45th Faculty Workshop. August 19-20, 2008. Sponsored by the University of Missouri, Campus Writing Program. University of Missouri, Columbia, MO.
- 93) Grantsmanship Workshop. February 19, 2008. Grant Proposal Peer Review, University of Missouri new faculty training series in grantsmanship. University of Missouri, Columbia, MO.
- 94) Grantsmanship Workshop. March 4, 2008. Preparing an NSF Early Career Grant. University of Missouri new faculty training series in grantsmanship. University of Missouri, Columbia, MO.
- 95) Grantsmanship Workshop. February 19, 2008. Proposal Processing and Grant Related Resources, University of Missouri new faculty training series in grantsmanship. University of Missouri, Columbia, MO.
- 96) College of Agriculture Food and Natural Resources (CAFNR) Teaching Excellence Fall Workshop. August 7, 2007. Reynolds Alumni Center, University of Missouri, Columbia Missouri, MO.

HONORS AND AWARDS

- 2022 Alumni of the Year Award. California State University Fresno, Henry Madden Library. An honor for select alumni who embrace the Bulldog spirit through dedication to their field and practice commitment to the community.
- 2021 Letter of Acknowledgement from WVU President Gordon Gee for my dedication to leadership in the National Science Foundation (NSF) Established Program to Stimulate Competitive Research (EPSCoR), in which I served as Scientific Lead from 2016 to 2022.
- 2020 Honorable Mention: Division of Forestry and Natural Resources for Faculty Mentoring. Received from Dr. Robert Burns, Director. December 23, 2020.
- 2020 Faculty Research Award: Most Productive in Research, Davis College of Agriculture, Natural Resources and Design, West Virginia University, April 1, 2020.
- 2020 Faculty Research Award: Most Productive in Research, Division of Plant and Soil Sciences, Davis College of Agriculture, Natural Resources and Design, West Virginia University, April 1, 2020.
- 2019 WVU Faculty Fellow, Pennsylvania State College of Education, Center for the Study of Higher Education, Academic Leadership Academy, 2019 Cohort, Graduation Spring 2020.
- 2019 LEAD21 Fellow: Leadership for the 21st Century, Class 14, June 2018 - February 2019. Specialized program providing leadership and professional development training for faculty and professionals within the land-grant system. Administered through the Office of Learning & Organizational Development, College of Agriculture & Environmental Sciences, University of Georgia, USA.
- 2018 Faculty Research Award: Most Productive in Research, Davis College of Agriculture, Natural Resources and Design, West Virginia University, April 1, 2018.
- 2018 Faculty Research Award: Most Productive in Research, Division of Plant and Soil Sciences, Davis College of Agriculture, Natural Resources and Design, West Virginia University, April 1, 2018.
- 2016 Appointed by West Virginia Governor Earl Ray Tomblin as the State of West Virginia representative to the Chesapeake Bay Program Science and Technical Advisory Committee (STAC).

- 2015 Invited Opponent for Ph.D. Dissertation defense at the Swedish University of Agricultural Sciences, Umeå, Department of Forest Ecology and Management. May 29th, 2015.
- 2015 Collaborator of the month award. College of Agriculture, Food and Natural Resources, University of Missouri. April 15th, 2015.
- 2015 MU Top Faculty Achievers Award by Chancellor R. Bowen Loftin, Tuesday March 3, 2015. By nomination.
- 2013 CAFNR Communications Fellow. A selective and comprehensive training program to communicate science effectively to differing audiences and advocate for CAFNR program areas.
- 2013 CAFNR International Programs. \$750 Honorarium for mentoring visiting scientists from Malawi, Africa during the fall 2013 Semester.
- 2013 2013 Missouri Chapter of the American Fisheries Society (MOAFS) Best Aquatic Student Poster Presentation, for Advisee: Sean Zeiger, for presentation at the 2013 Missouri Natural Resources Conference.
- 2012 2012 Outstanding Graduate Student Award, for Advisee: Pennan Chinnasamy (Ph.D. student), University of Missouri.
- 2011 Recognized for “who will be remembered in 100 years”. College of Agriculture, Food and Natural Resources, Collaborating for the Greater Good Celebration.
- 2011 Wakonse Fellow. Wakonse Conference on College Teaching, Camp Miniwanca, Lake Michigan.
- 2011 2010 Outstanding Paper Award. For advisee Edward Bulliner and his paper entitled, “Measuring and modeling stream temperature in a forested Ozark border stream: An energy balance approach. Summer 2011. American Geophysical Union.
- 2011 2011 Outstanding Graduate Student Award, for Advisee: Dandan Huang (M.S. student), University of Missouri.
- 2006 Awarded the first University of Idaho Doctoral Research Fellowship, 2006-2007, \$25,000.
- 2006 Awarded the Elva Anderson Snow Scholarship Award for academic achievement and leadership in snow hydrology research.
- 2005 Recognized for Exemplary Contributions as an Educator by California State University Fresno, and the Benjamin and Marion Kremen School of Education and Human Development.
- 2005 Graduate Research Excellence Award. Inaugural Award, Presented by the University of Idaho Graduate Student Association, and the Department of Forest Resources.

INTERNATIONAL ENGAGEMENT

- 12/2019 – Present Institutional Liaison and Ambassador to the Global Water Partnership, a World Bank Supported International Network, Stockholm Sweden.
- 10/2019 – Present West Virginia University. Director: non-governmental organization (NGO) to the Barbuda Agricultural Working Group, Island of Barbuda. The Caribbean nation of Antigua and Barbuda.
- 04/2019 – Present West Virginia University. Ambassador to Direct Assessment of Water Resources for the Island of Barbuda. The Caribbean nation of Antigua and Barbuda.
- 01/2018 – Present Belgorod State University Scientific Bulletin, Natural Sciences. Editorial Board Member. Belgorod, Russia.
- 06/2015 – Present Collaborator: Swedish Agricultural University, Umeå, Sweden.
- 11/2011 – Present Collaborating Scientist, Belgorod State University, Belgorod, Russia.
- 08/2015 – 12/2016 Collaborating Scientist and Course Writer, the World Bank, Moscow State University, Russia.
- 06/2015 – 06/2015 Visiting Scholar/Scientist, China Agricultural University, Beijing, China.
- 12/2012 – 06/2015 Collaborating Scientist, Max Planck Institute of Biogeochemistry, Jena, Germany.
- 12/2012 – 06/2015 Collaborating Scientist, Friedrich Schiller University, Jena, Germany.

TEACHING EXPERIENCE

- 2021 – July Instructor of Record, FIRST2 Undergraduate Research Summer Immersion Program. A program for first-generation and underrepresented STM majors who started college in the fall of 2021. [First2network.org/student/summer-research-internship](https://first2network.org/student/summer-research-internship). July 19th, through July 29th, 2021.
- 2020 – Present Instructor of Record, Environmental, Soil, and Water Sciences 475 – Environmental Water Resources, Division of Plant and Soil Sciences, West Virginia University. Online.
- 2020 – Present Instructor of Record, Environmental, Soil, and Water Sciences 575 – Environmental Water Resources, Division of Plant and Soil Sciences, West Virginia University. Online.
- 2019 – Present Instructor of Record, Environmental, Soil, and Water Sciences 693 – Physical Hydrology, Division of Plant and Soil Sciences, West Virginia University.
- 2018 – Present Instructor of Record, Environmental, Soil, and Water Sciences 693 – Ecohydrology: Contemporary Topics, Division of Plant and Soil Sciences, West Virginia University.
- 2017 – Present Instructor of Record, Environmental, Soil, and Water Sciences 325 – Principles of Water Resources, Division of Plant and Soil Sciences, West Virginia University. Online.
- 2017 – Present Instructor of Record, Environmental, Soil, and Water Sciences 525 – Principles of Water Resources, Division of Plant and Soil Sciences, West Virginia University. Online.
- Spring 2019 Guest Lecture, Forest Ecology. Forest Ecology Laboratory FMAN 212. February 2019. The hydrologic cycle and changing climate: Implications for the Eastern Deciduous Forest.
- Spring 2018 Guest lecture, Agronomy 202 Principles of Soil Science, February 19th – March 2nd. Soil Water: Infiltration, water holding capacity, content/potential, plant uptake, vadose zone, groundwater
- 2014 – 2015 Instructor of Record, Natural Resources 9490 – Ecohydrology: Contemporary Topics, School of Natural Resources, University of Missouri.
- 2011 – 2015 Instructor of Record, Natural Resources 3290 – Hydrologic Measurement Techniques, School of Natural Resources, University of Missouri.
- 2011 – 2015 Instructor of Record, Natural Resources 8290 – Hydrologic Measurement and Synthesis, School of Natural Resources, University of Missouri.
- 2010 – 2015 Instructor of Record, Forestry 4390/7390 (Online Courses) – Watershed Management and Water Quality, Department of Forestry, University of Missouri.
- 2009 – 2015 Instructor of Record, Atmospheric Sciences 4520/7520 – Environmental Biophysics, Department of Soil, Environmental and Atmospheric Sciences, University of Missouri.
- 2008 – 2015 Instructor of Record, Forestry 2540 – Forest Hydrology Field Studies, Department of Forestry, University of Missouri.
- 2008 – 2009 Instructor of Record, Forestry 9087 – Graduate Seminar, Department of Forestry, University of Missouri.
- 2008 – 2015 Instructor of Record, Forestry 8390 – Physical Hydrology, Department of Forestry, University of Missouri.
- 2007 – 2015 Instructor of Record, Forestry 4390/7390 – Watershed Management and Water Quality, Department of Forestry, University of Missouri.
- 2005 – 2006 Instructor of Record, Forestry 462 – Watershed Management, University of Idaho.
- 2002 – 2003 Instructor of Record, Biology 1 – Principles of Biology, Biology 4 – Principles of Zoology, Biology 22 – Human Physiology, Fresno City College.
- 2000 – 2002 Graduate Teaching Assistant, Biological Science 130 – General Ecology, California State University Fresno.

INTELLECTUAL PROPERTY AND PATENTS

- 1) **J.A. Hubbart**. 2021. US Patent Number 63/220,790. United States Patent and Trademark Office: U.S. Department of Commerce. A Drinking Water Quality Test System and Methods. Provisional Patent Filed July 12, 2021, based on West Virginia University Disclosure No. 2021-034.

PUBLICATIONS IN REFEREED JOURNALS

Published Articles

- 1) **Hubbart, J.A.** 2022. *Accepted with Revision*. A 22-Site Watershed Investigation of Historic and Contemporary Land-Use-Practice Relationships with E-coli and Enterococci Concentrations. International Journal of Environmental Research and Public Health, xx, xxxx x-x. DOI:
- 2) Gootman, K.S., and **J.A. Hubbart**. *Accepted with Revision*. Quantifying stream water and shallow groundwater suspended sediment relationships in a West Virginia mixed-use, agro-forested watershed. Land, XX:XX-XX. DOI: 10.1002/hyp.xxxxx
- 3) **Hubbart, J.A.** 2022. Improving Best Management Practice Decisions in Mixed-Land-Use and/or Municipal Watersheds: Should Approaches be Standardized? Land, 10(12):1402. DOI: 10.3390/land10121402.
- 4) Xu, Y., L. Elbakidze, H. Yen, J.G. Arnold, P.W. Gassman, **J.A. Hubbart**, and M.P. Strager. 2022. Integrated Assessment of Nitrogen Runoff to the Gulf of Mexico. Resource and Energy Economics, 67 (2022) 101279. DOI: 10.1016/j.reseneeco.2021.101279
- 5) **Hubbart, J.A.**, and Gootman, K.S. 2021. A Call to Broaden Investment in Drinking Water Testing and Community Outreach Programs. Challenges: 12, 32, 1-10. DOI: 10.3390/challe12020032
- 6) Hafyani, M.E., A. Essahlaoui, K. Fung-loy, **J.A. Hubbart**, and A Van Rompaey. 2021. Assessment of agricultural water requirement for semi-arid areas. A case study in the Boufakrane river watershed (Morocco). Applied Sciences, 11, 10379 (16pp). DOI: 10.3390/app112110379
- 7) Wilson, M.E., K. Shaffer, S. Plum, K. Garossino, N. Lansink, **J. Hubbart**, J. Hatton, and J. Kim. 2021. Predicting Dry Matter Intake in Beef Cattle with Water Intake and Other Variables. Journal of Animal Science, 99: Suppl. S3. Doi.org/10.1093/jas/skab235.842
- 8) Gootman, K.S., and **J.A. Hubbart**. 2021. Rainfall, runoff and shallow groundwater response in a mixed-use, agro-forested watershed of the Northeast, USA. Hydrological Processes, 2021;35:e14312. DOI: 10.1002/hyp.14312
- 9) Guillen, L.A., M.B. Adams, E. Elliott, **J. Hubbart**, C. Kelly, B. McNeil, W. Peterjohn, and N. Zegre. 2021. The Fernow Experimental Forest, West Virginia, USA: Insights Datasets, and Opportunities. In, special edition, Research and Observatory Catchments: The Legacy and the Future. Hydrological Processes. DOI: 10.1002/hyp.14106
- 10) Zeiger, S., and **J.A. Hubbart**. 2021. Measuring and Modeling Event-Based Environmental Flows: An Assessment of HEC-RAS 2D Rain-on-Grid Simulations. Journal of Environmental Management, 285 (2021) 112125. DOI: 10.1016/j.jenvman.2021.112125
- 11) Dang, C., E. Kellner, G. Martin, Z.B. Freedman, **J.A. Hubbart**, K. Stephan, C.N. Kelly, and E.M. Morrissey. 2021. Land Use Intensification Destabilizes Stream Microbial Biodiversity and Decreases Metabolic Efficiency. Science of the Total Environment, 767:1-9. DOI: 10.1016/j.scitotenv.2021.145440
- 12) Petersen, F., and **J.A. Hubbart**. 2021. The Occurrence and Transport of Microplastics: The State of the Science. Science of the Total Environment, 758:1-12. DOI: 10.1016/j.scitotenv.2020.143936
- 13) Martin, G., C. Dang, E. Morrissey, **J.A. Hubbart**, E. Kellner, C. Kelly, K. Stephan, and Z. Freeman. 2020. Stream sediment bacterial communities exhibit temporally-consistent and distinct thresholds to land use change in a mixed-use watershed. FEMS Microbiology Ecology, DOI: 10.1093/femsec/fiaa256

- 14) **Hubbart, J.A.** 2020. Integrated Water Resources Research: Advancements in Understanding to Improve Future Sustainability. *Water: Special Edition*, 12, 2208 1-6. DOI: 10.3390/w12082208
- 15) Gootman, K.S., E. Kellner, and **J.A. Hubbart**. 2020. A Comparison and Validation of Saturated Hydraulic Conductivity Models. *Water: Special Edition*, 12, 2040 1-19. DOI: 10.3390/w12072040
- 16) Petersen, F., and **J.A. Hubbart**. 2020. Factors Impacting the Survival and Occurrence of *Escherichia coli* in Secondary Microphysical Habitats. *Water: Special Edition*, 12, 1796 1-15. DOI: 10.3390/w12061796
- 17) Horne, J.P., and **J.A. Hubbart**. 2020. A Spatially Distributed Investigation of Stream Water Temperature in a Contemporary Mixed-Land-Use Watershed. *Water: Special Edition*, 12(6), 1756 1-30. DOI: 10.3390/w12061756
- 18) **Hubbart, J.A.**, K. Stephan, F. Petersen, Z. Heck, J.P. Horne, and J. Meade. 2020. Challenges in Barbuda: A Distinct Cultural and Ecological Island Ecosystem at the Precipice of Change. *Challenges*: 11, 1 1- 13. DOI: 10.3390/challe11010012
- 19) Petersen, F., and **J.A. Hubbart**. 2020. Spatial and Temporal Characteristics of *Escherichia Coli*, Suspended Particulate Matter and Land Use Practice Relationships in a Mixed-Land Use Contemporary Watershed. *Water: Special Edition*, 12, 1228 1-23. DOI: 10.3390/w12051228
- 20) Petersen, F., and **J.A. Hubbart**. 2020. Advancing Understanding of Land Use and Physicochemical impacts on Fecal Contamination in Mixed-Land-Use Watersheds. *Water: Special Edition*, 12, 532 1-20. DOI: 10.3390/w12041094
- 21) Petersen, F., and **J.A. Hubbart**. 2020. Quantifying *Escherichia coli* and suspended particulate matter concentrations in a Mixed-Land Use Appalachian Watershed. *Water: Special Edition*, 12, 532 1-20. DOI: 10.3390/w12020532
- 22) **Hubbart, J.A.**, E. Kellner, and S.J. Zeiger. 2019. A Case-Study Application of the Experimental Watershed Study Design to Advance Adaptive Management of Contemporary Watersheds. *Water: Special Edition*, 11, 2355 1-16. DOI: 10.3390/w11112355
- 23) Kutta, S., and **J.A. Hubbart**. 2019. Observed Mesoscale Hydroclimate Variability of North America's Allegheny Mountains at 40.2° N. *Climate: Special Edition*, 7, 91. DOI: 10.3390/cli7070091
- 24) Kleinman, P. J. A., Fanelli, R. M., Hirsch, R. M., Buda, A. R., Easton, Z. M., Wainger, L. A., Brosch, C., Lowenfish, M., Collick, A. S., Shirmohammadi, A., Boomer, K., **Hubbart, J. A.**, Bryant, R. B., and Shenk, G. W. 2019. Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. *Journal of Environmental Quality*. DOI: 10.2134/jeq2019.03.0112
- 25) Kutta, S., and **J.A. Hubbart**. 2019. Climatic Trends of West Virginia: A Representative Appalachian Microcosm. *Water: Special Edition*, 11-1117:1-15. DOI: 10.3390/w11061117
- 26) Zeiger, S., and **J.A. Hubbart**. 2019. Characterizing Land Use Impacts on Channel Geomorphology and Streambed Sedimentological Characteristics: A Stream Physical Habitat Assessment. *Water: Special Edition*, 11-1088:1-22. DOI: 10.3390/w11051088
- 27) Zeiger, S., and **J.A. Hubbart**. 2019. Quantifying Relationships between Urban Land Use and Flow Frequency of Small Missouri Streams. *Science of the Total Environment*, 659:1008-1015. DOI: 10.1016/j.scitotenv.2018.12.416
- 28) Kutta, E., and **J.A. Hubbart**. 2019. Observed Climatic Changes in West Virginia and Opportunities for Agriculture. *Regional Environmental Change*, 19:1087-1099. DOI: 10.1007/s10113-018-1455-y
- 29) Kellner, E., and **J.A. Hubbart**. 2019. A Method for Advancing Understanding of Streamflow and Geomorphological Characteristics in Mixed-Land-Use Watersheds. *Science of the Total Environment*, 657:634-643. DOI: 10.1016/j.scitotenv.2018.12.070
- 30) Zeiger, S., and **J.A. Hubbart**. 2018. Quantifying Relationships between Watershed Characteristics and Hydroecological Indices of Missouri Streams. *Science of the Total Environment*, 654:1305-1315. DOI: 10.1016/j.scitotenv.2018.11.205

- 31) Petersen, F., **J.A. Hubbard**, E. Kellner, and E. Kutta. 2018. Land-Use-Mediated Escherichia coli Concentrations in a Contemporary Appalachian Watershed. *Environmental Earth Sciences*, 77:754. DOI: 10.1007/s12665-018-7948-7
- 32) Kutta, E., and **J.A. Hubbard**. 2018. Changing Climatic Averages and Variance: Implications for Mesophication at the Eastern Edge of North America's Eastern Deciduous Forest. *Forests*, 9(605):1-13. DOI: 10.3390/f9100605
- 33) Kellner, E., **J.A. Hubbard**, K. Stephan, E. Morrissey, Z. Freedman, E. Kutta, C. Kelly. 2018. Characterization of Sub-Watershed-Scale Stream Chemistry Regimes in an Appalachian Mixed-Land-Use Watershed. *Environmental Monitoring and Assessment*, 190: 586, pp 1-18. DOI: 10.1007/s10661-018-6968-9
- 34) Kutta, E., **J.A. Hubbard**, T. Eichler, and A. Lupo. 2018. Symmetry of Global Mass and Energy Budget Anomalies Associated with El Nino-Southern Oscillation. *Atmosphere*, 9(9): 342. DOI: 10.3390/atmos9090342
- 35) Kellner, E., and **J.A. Hubbard**. 2018. Flow Class Analysis of Suspended Sediment Concentration and Particle Size in a Mixed-Land-Use Watershed. *Science of the Total Environment*, 648: 973-983. DOI: 10.1016/j.scitotenv.2018.08.187
- 36) Zeiger, S., and **J.A. Hubbard**. 2018. Rainfall-Stream Flow Responses in a Mixed-Land-Use and Municipal Watershed of the Central USA. *Environmental Earth Sciences*. DOI: 10.1007./s12665-018-7630-0
- 37) Zeiger, S., and **J.A. Hubbard**. 2018. Assessing Environmental Flow Targets Using Pre-Settlement Land Cover: A SWAT Modeling Application. *Water*. DOI: 10.3390/w10060791
- 38) Zeiger, S., and **J.A. Hubbard**. 2018. Assessing the Difference between Soil and Water Assessment Tool (SWAT) Simulated Pre-Development and Observed Developed Loading Regimes. *Hydrology*. DOI: 10.3390/hydrology5020029
- 39) Klein-Hentz, A.M., P. Kinder, **J.A. Hubbard**, and E. Kellner. 2018. Accuracy and Optimal altitude for Physical Habitat Assessment (PHA) of stream environments using Unmanned Aerial Vehicles (UAV). *Drones*. DOI: 10.3390/drones2020020
- 40) Wei, L., H. Zhou, T.E. Link, K.L. Kavanagh, **J.A. Hubbard**, E. Du, A.T. Hudak, and J.D. Marshall. 2018. Forest Productivity Varies with Soil Moisture More than Temperature in a Small Montane Watershed. *Agricultural and Forest Meteorology*. DOI: 10.1016/j.agformet.2018.05.012
- 41) Sunde, M.G., H.S. He, **J.A. Hubbard**. 2018. An Integrated Modeling Approach for Estimating Hydrologic Responses to Future Urbanization and Climate Changes in a Mixed-Use Midwestern Watershed. *Journal of Environmental Management*. DOI: 10.1016/j.jenvman.2018.05.025
- 42) Zeiger, S., and **J.A. Hubbard**. 2018. Quantifying Land use Influences on Event-Based Flow Frequency, Timing, Magnitude, and Rate of Change in an Urbanizing Watershed of the Central USA. *Environmental Earth Sciences*. DOI: 10.1007/s12665-018-7312-y
- 43) Kellner, E., and **J.A. Hubbard**. 2018. Spatiotemporal Variability of Suspended Sediment Particle Size in a Mixed-Land-Use Watershed. *Science of the Total Environment*, 615: 1164-1175. DOI: 10.1016/j.scitotenv.2017.10.040
- 44) **Hubbard, J.A.** 2018. Considering the Future of Water Resources: A Call for Investigations that Include the Cultural Anthropology of Water. *Global Journal of Archaeology & Anthropology*, 3(2): 1-3. DOI: 10.19080/GJAA.2018.03.555607
- 45) **Hubbard, J.A.**, E. Kellner, P. Kinder, and K. Stephan. 2017. Challenges in Aquatic Physical Habitat Assessment: Improving Conservation and Restoration Decisions for Contemporary Watersheds. *Challenges*, 8(2): 31. DOI: 10.3390/challe8020031
- 46) Kutta, E., **J.A. Hubbard**, B.M. Svoma, T. Eichler, and A.R. Lupo. 2017. Symmetric and Asymmetric Components of Anomalous Tropospheric-Mean Horizontal Fluxes of Latent and Sensible Heat Associated with ENSO Events of Variable Magnitude. *Atmospheric Research*, 198: 173-184. DOI: 10.1016/j.atmosres.2017.08.013

- 47) Wei, L., **J.A. Hubbard**, and H. Zhou. 2017. Variable Streamflow Contributions in Nested Subwatersheds of a US Midwestern Urban Watershed. *Water Resources Management*. DOI: 10.1007/s11269-017-1804-5
- 48) Kellner, E., and **J.A. Hubbard**. 2017. Land Use Impacts on Floodplain Water Table Response to Precipitation Events. *Ecohydrology*. DOI: 10.1002/eco.1913
- 49) Zeiger, S., and **J.A. Hubbard**. 2017. Quantifying Flow Interval - Pollutant Loading Relationships in a Rapidly Urbanizing Mixed-Land-Use Watershed of the Central US. *Environmental Earth Sciences*. DOI: 10.1007/s12665-017-6819
- 50) Zeiger, S., and **J.A. Hubbard**. 2017. An Assessment of Mean Areal Precipitation Methods on Simulated Stream Flow: A SWAT Model Performance Assessment. *Water*, 9(7), 459. DOI: 10.3390/w9070459
- 51) Kellner, E., and **J.A. Hubbard**. 2017. Advancing Understanding of the Surface Water Quality Regime of Contemporary Mixed-Land-Use Watersheds: An Application of the Experimental Watershed Method. *Hydrology*. DOI: 10.3390/hydrology4020031
- 52) Kellner, E., and **J.A. Hubbard**. 2017. Confounded by Forgotten Legacies: Effectively Managing Watersheds in the Contemporary Age of Unknown Unknowns. *Hydrological Processes*. DOI: 10.1002/hyp.11223
- 53) Kellner, E., and **J.A. Hubbard**. 2017. Improving Understanding of Mixed-Land-Use Watershed Suspended Sediment Regimes: Mechanistic Progress through High-Frequency Sampling. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2017.04.052
- 54) Sunde, M.G., H.S. He, **J.A. Hubbard**, and M.A. Urban. 2017. Integrating Downscaled CMIP5 Data with a Physically Based Hydrologic Model to Estimate Potential Climate Change Impacts on Streamflow Processes in a Mixed-Land-Use Watershed. *Hydrological Processes*. DOI: 10.1002/hyp.11150
- 55) Dickerson-Lange, S.E., R.F. Gersonde, **J.A. Hubbard**, T.E. Link, A.W. Nolin, G.H. Perry, T.R. Roth, N.E. Wayand, and J.D. Lundquist. 2017. Snow Disappearance Timing is dominated by Forest Effects on Snow Accumulation in Warm Winter Climates of the Pacific Northwest, USA. *Hydrological Processes*. DOI: 10.1002/hyp.11144
- 56) **Hubbard, J.A.**, E. Kellner, L.W. Hooper, and S. Zeiger. 2017. Quantifying Loading, Toxic Concentrations, and Systemic Persistence of Chloride in a Contemporary Mixed-Land-Use Watershed Using an Experimental Watershed Approach. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2017.01.019
- 57) Kellner, E., and **J.A. Hubbard**. 2016. Application of the Experimental Watershed Approach to Advance Urban Watershed Precipitation/Discharge Understanding. *Urban Ecosystems*. DOI: 10.1007/s11252-016-0631-4
- 58) Hooper, L., and **J.A. Hubbard**. 2016. A Rapid Physical Habitat Assessment of Wadeable Streams for Mixed-Land-Use Watersheds. *Hydrology*, 3(4): 37. DOI: 10.3390/hydrology3040037
- 59) Chendev, Y.G., **J.A. Hubbard**, E.A. Terekhin, A.R. Lupo, T.J. Sauer, and C.L. Burras. 2016. Recent Afforestation in the Iowa River and Vorskla River Basins: A Comparative Trends Analysis. *Forests*, 7(11):278. DOI: 10.3390/f7110278
- 60) Matveev, S.M., Y.G. Chendev, A.R. Lupo, **J.A. Hubbard**, and D.A. Timashchuk. 2016. Climatic Changes in the East-European Forest-Steppe and Effects on Scots Pine Productivity. *Pure and Applied Geophysics*, 173:1-17. DOI: 10.1007/s00024-016-1420-y
- 61) Zeiger, S., and **J.A. Hubbard**. 2016. A SWAT Model Validation of Nested-Scale Contemporaneous Stream Flow, Suspended Sediment and Nutrients from a Multiple-Land-Use Watershed of the Central USA. *Science of the Total Environment*, 572:232-243. DOI: 10.1016/j.scitotenv.2016.07.178
- 62) Kutta, E., and **J.A. Hubbard**. 2016. Reconsidering Meteorological Seasons in a Changing Climate. *Climatic Change*, 16:1-14. DOI: 10.1007/s10584-016-1704-3

- 63) **Hubbart, J.A.**, R. Guyette, and R-M. Muzika. 2016. More than Drought: Precipitation Variance, Excessive Wetness, Pathogens and the Future of the Western edge of the Eastern Deciduous Forest. *Science of the Total Environment*, 566-567:463-467. DOI: 10.1016/j.scitotenv.2016.05.108
- 64) Sunde, M., H.S. He, **J.A. Hubbart**, and C. Scroggins. 2016. Forecasting streamflow response to increased imperviousness in an urbanizing Midwestern watershed using a coupled modeling approach. *Applied Geography*, 72:14-25. DOI: 10.1016/j.apgeog.2016.05.002
- 65) Kellner, E., and **J.A. Hubbart**. 2016. Continuous and Event-Based Time Series Analysis of Observed Floodplain Groundwater Flow under Contrasting Land-Use Types. *Science of the Total Environment*, 566-567:436-445. DOI: 10.1016/j.scitotenv.2016.05.036
- 66) Simpson, M., **J.A. Hubbart**, and N.I. Fox. 2016. Ground Truthed Performance of single- and Dual-Polarized Radar Rain Rates at Large Ranges. *Hydrological Processes*. DOI: 10.1002/hyp.10873
- 67) Simpson, M., and **J.A. Hubbart**. 2016. Spatial Trends of Precipitation Chemistry in the Central Plains Region of the United States. *Environmental Earth Sciences*. DOI: 10.1007/s12665-016-5526-4
- 68) Nichols, J., **J.A. Hubbart**, and B. Poulton. 2016. Using Macroinvertebrate Assemblages and Multiple Stressors to Infer Urban Stream System Condition: A Case Study in the Central US. *Urban Ecosystems*. DOI: 10.1007/s11252-016-0534-4
- 69) Zeiger, S., and **J.A. Hubbart**. 2016. Quantifying Suspended Sediment Flux in a Mixed-Land-Use Urbanizing Watershed using a Nested-Scale Study Design. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2015.10.096
- 70) Kellner, E., and **J.A. Hubbart**. 2016. A Comparison of the Spatial Distribution of Vadose Zone Water in Forested and Agricultural Floodplains a Century after Harvest. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2015.10.080
- 71) **Hubbart, J.A.**, and D.G. Larson. 2016. Understanding the Cultural Anthropology of Water by Investigating the History of World's Fairs: An Alert for needed Research. *International Education and Research*, 2(7):17-19. E-ISSN: 2454-9916
- 72) Kellner, E., **J.A. Hubbart**, and A. Ikem. 2016. Corrigendum to: A comparison of forest and agricultural shallow groundwater chemical status a century after land use change. *Science of the Total Environment*. 529:487. DOI: 10.1016/j.scitotenv.2015.05.052
- 73) Zeiger, S., and **J.A. Hubbart**. 2015. Quantifying Urban Stormwater Temperature Surges: A Central US Watershed Study. *Hydrology*. 2(4): 193-209; DOI: 10.3390/hydrology2040193
- 74) Zeiger, S., and **J.A. Hubbart**. 2015. Nested-Scale Nutrient Yields from a Mixed-Land-Use Urbanizing Watershed. *Hydrological Processes*. DOI: 10.1002/hyp.10716
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- 76) Zeiger, S., **J.A. Hubbart**, S.H. Anderson, and M.C. Stambaugh. 2015. Measuring and Modeling Stream Water and Air Temperature Relationships in a Multiple Land Use Urban Watershed of the Central USA. *Hydrological Processes*. DOI: 10.1002/hyp.10617
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- 1) Kutta, E., **J.A. Hubbart**, and E. Kellner. 2019. Climate Change in West Virginia and Implications for Appalachian Food Deserts. In: Proceedings of the Sixth Interagency Conference on Research in the Watersheds. Working Watersheds and Coastal Systems: Research and Management for a Changing Future. July 23 – 26, 2018, Shepherdstown, WV. (Oral)
- 2) **Hubbart, J.A.**, and E. Kellner. 2019. The Experimental Watershed Study Approach to Monitoring and managing Contemporary Mixed-Land-Use Watersheds. In: Proceedings of the Sixth Interagency Conference on Research in the Watersheds. Working Watersheds and Coastal Systems: Research and Management for a Changing Future. July 23 – 26, 2018, Shepherdstown, WV. (Oral)
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PRESENTATIONS AND SEMINARS

Session Convener, Moderator

- 1) **Hubbart, J.A.** 2021. Oral Session Convener. Water Security: Challenges for the 21st Century. Annual Meeting of the American Geophysical Union (AGU) – New Orleans, Louisiana, USA, December 13-17, 2021.
- 2) **Hubbart, J.A.** 2021. Poster Session Convener. Water Security: Challenges for the 21st Century. Annual Meeting of the American Geophysical Union (AGU) – New Orleans, Louisiana, USA, December 13-17, 2021.
- 3) **Hubbart, J.A.** 2021. Workshop Convener: WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research. Workshop III: Modeling Water Resources: Modeling of Toxicity and Biological Impacts. June 2, 2021, 2:00pm – 5:00pm.
- 4) **Hubbart, J.A.** 2021. Workshop Convener: WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research. Workshop II: Molecular to Watershed Scale Complexity of Water Resources. May 26, 2021, 2:00pm – 5:00pm.
- 5) **Hubbart, J.A.** 2021. Workshop Convener: WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research. Workshop I: Sensors and Water Resources: Chemical, Physical, and Biological Water Quality Detection. May 19, 2021, 2:00pm – 5:00pm.
- 6) **Hubbart, J.A.** 2021. Seminar Convener: Metals, microbes, and mixing of surface water and groundwater in mountain streams. Presented by Dr. Audrey Sawyer, Ohio State University, and sponsored by the WVU Institute of Water Security and Science. February 11, 2021.
- 7) **Hubbart, J.A.** 2020. Meeting Convener: WVU Institute of Water Security and Science (IWSS) Industrial Advisory Board, Quarterly Meeting. November 2, 2020.
- 8) **Hubbart, J.A.** 2020. Meeting Convener: WVU Institute of Water Security and Science (IWSS) Industrial Advisory Board, Career Roundtable. October 29, 2020.
- 9) **Hubbart, J.A.** January 23-24, 2020. Session Convener and Steering Committee Member: Artificial Drainage Effects on Saturated Flow: State of the Science - Current paradigms and research needs. Chesapeake Bay Scientific Advisory Committee, Workshop, Linking Soil and Watershed Health to In-field and Edge-of-Field Water Management, Morgantown, WV, USA.
- 10) **Hubbart, J.A.** June 13, 2019. Session Convener: Land Management. Chesapeake Bay Scientific Advisory Committee, Workshop, Assessing the Environmental in Outcome Units (AEIOU), Annapolis, MD, USA.

- 11) **Hubbart, J.A.** June 24-25, 2018. Conference Organizer: 2018 UCOWR/NIWR Annual Water Resources Conference, Pittsburgh, PA, USA.
- 12) **Hubbart, J.A.** July 23, 2018. Session Convener. Water Quality Research in the Appalachia Region. Sixth Interagency Conference on Research in the Watersheds, July 23rd, 2018, Shepherdstown, WV, USA.
- 13) **Hubbart, J.A.** Conference Organizer, Convener, Moderator. Advances in Water Resource Science and Management in West Virginia, and the Northeastern US. Institute of Water Security and Science 2018 Conference, February 20 – 21, 2018, Morgantown, WV, USA.
- 14) **Hubbart, J.A.** June 15, 2017. The Appalachian Freshwater Initiative (AFI): Overview and Progress. National Science Foundation EPSCoR, Annual All-Hands-Meeting, West Virginia University, Erickson Alumni Center, Morgantown, West Virginia, USA.
- 15) **Hubbart, J.A.** April 9th, 2017. Session Convener. Imaging and Modeling 1. 2017 Task Force, ASMR, ARRI meeting. Morgantown, West Virginia.
- 16) **Hubbart, J.A.** February 28, 2017. Symposium Organizer and Convener. The Annual Symposium of the Institute of Water Security and Science. Morgantown, West Virginia.
- 17) **Hubbart, J.A.** February 28, 2017. Bi-Annual meeting of the Appalachian Freshwater Initiative (NSF EPSCoR). Davis College of Agriculture, Natural Resources and Design, Morgantown, West Virginia.
- 18) **Hubbart, J.A.** December 12th, 2016. Session Chair. H11F: New Frontiers in Water Resources: Achieving Water Resource Security in Times of Climate Change, Urbanization, and Agricultural Expansion I. Annual meeting of the American Geophysical Union, San Francisco, California.
- 19) **Hubbart, J.A.** December 12th, 2016. Session Chair. H13D: New Frontiers in Water Resources: Achieving Water Resource Security in Times of Climate Change, Urbanization, and Agricultural Expansion II Posters. Annual meeting of the American Geophysical Union, San Francisco, California.
- 20) **Hubbart, J.A.** September 23rd, 2016. Symposium Organizer and Convener. The Fall Meeting of the Institute of Water Security and Science. Morgantown, West Virginia.
- 21) **Hubbart, J.A.** April 22nd, 2016. Symposium Organizer and Convener. The Inaugural Meeting of the Institute of Water Security and Science. Morgantown, West Virginia.
- 22) **Hubbart, J.A.** April 16th, 2015. Symposium Organizer and Convener. 1st Annual Symposium of the Center for Watershed Management and Water Resources. Symposium Title: Water for Agriculture: Challenges for this Century.
- 23) **Hubbart, J.A.** September 30th, 2014. Convener. 3rd meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.
- 24) **Hubbart, J.A.** April 24th, 2014. Convener. 2nd meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.
- 25) **Hubbart, J.A.** March 18th, 2014. Convener. 1st meeting of the College of Agriculture, Food and Natural Resources, Center for Watershed Management and Water Quality.
- 26) **Hubbart, J.A.** March 25-27, 2013. Special Session Convener. Multiple Land-Use Watersheds: Hydrology, Water Quality, and Biological Health I and II. American Water Resources Association Spring Specialty Conference: Agricultural Hydrology and Water Quality II.
- 27) **Hubbart, J.A.** March 25-27, 2013. Special Session Convener. Multiple Land-Use Watersheds: Hydrology, Water Quality, and Biological Health I and II. American Water Resources Association Spring Specialty Conference: Agricultural Hydrology and Water Quality II.
- 28) **Hubbart, J.A.** May 30, 2011. Book review session leader / convener (How of Happiness, by Sonya Lyubomirsky). Wakonse Conference on College Teaching, Camp Miniwanca, Lake Michigan, May 26-31, 2011.
- 29) **Hubbart, J.A.** April 21, 2011. Moderator. Linkages among Midwest Watersheds, Land-use Practices, and Gulf of Mexico Vitality. 2011 Missouri Life Sciences Week, April 18-23, 2011.

Invited Oral Presentations

- 1) **Hubbart, J.A.** 2021. Advancing Hydrologic and Water Quality Mitigation in Contemporary Watersheds: Lessons Learned through Application of the Experimental Watershed Approach. <https://www.cals.iastate.edu/inrc/inrc-research-seminar-series-april-2021-advancing-hydrologic-and-water-quality-mitigation>. Iowa State University, Iowa Nutrient Research Center. April 28th, 2021.
- 2) **Hubbart, J.A.** 2020. Research Programs, Collaborations, and Key Contacts. Davis College of Agriculture, Natural Resources and Design (DCANRD), Division of Forestry and Natural Resources, New Faculty Meeting (Virtual). December 10, 2020.
- 3) **Hubbart, J.A.** 2020. The Do's and Don'ts of Grant Getting. Davis College of Agriculture, Natural Resources and Design (DCANRD), Division of Forestry and Natural Resources, Graduate Student Association, December meeting (Virtual). December 10, 2020.
- 4) **Hubbart, J.A.** 2020. Davis College of Agriculture, Natural Resources and Design: Promotion and Tenure Professional Development (Virtual). December 9, 2020.
- 5) **Hubbart, J.A.** 2020. Davis College of Agriculture, Natural Resources and Design: Fall 2020 New Faculty Orientation (Virtual). August 17, 2020.
- 6) **Hubbart, J.A.** 2020. Davis College of Agriculture, Natural Resources and Design: Water Research Expertise and Infrastructure: NETL Workshop on Materials and Water Research. January 8, 2020, West Virginia University, Morgantown, WV.
- 7) **Hubbart, J.A.** 2019. A West Virginia Climate Hub. West Virginia Department of Agriculture, October 25, 2019, West Virginia University, Morgantown, WV.
- 8) **Hubbart, J.A.** 2019. Changing Climate Variance: Implications for the Eastern Forest of the United States. Davis College of Agriculture, Natural Resources and Design, School of Design and Community Development, October 22, 2019, West Virginia University, Morgantown, WV.
- 9) **Hubbart, J.A.** 2019. What is a Resilient Forest? Changing Climate Implications for the Eastern Forest of the United States. What is a Resilient Forest Conference, October 17, 2019, Flatwoods, WV.
- 10) **Hubbart, J.A.** 2019. Collaborative Research Plan for the Reedsville Farm: West Virginia Annual State Conservation Committee Meeting, October 8, 2019, Ruby Memorial Farm, Reedsville, WV.
- 11) **Hubbart, J.A.** 2019. Changing Climate Variance and Implications for the Eastern US Deciduous Forest Ecosystem, Division of Forestry and Natural Resources, October 4th, 2019, West Virginia University, Morgantown, WV.
- 12) **Hubbart, J.A.** 2019. The Why of Change: A Workshop Provided to the Division of Forestry and Natural Resources, Forest Management Program Faculty to Advance Strategic Program Planning, May 2, 2019, West Virginia University, Morgantown, WV.
- 13) **Hubbart, J.A.** 2019. The Institute of Water Security and Science: WVU Research Showcase, April 4, 2019, West Virginia University, Morgantown, WV.
- 14) **Hubbart, J.A.** 2019. Improving Animal Efficiency and Water Quality Systems: A Sustainable Agricultural Model Farm: Environmental Water Quality, Appalachian Grazing Conference, March 7-9, 2019, Morgantown, WV.
- 15) **Hubbart, J.A.** 2018. College Welcome Speech. Davis College of Agriculture, Natural Resources and Design, Distinguished Scholars Day, November 30, 2018, Morgantown, WV.
- 16) **Hubbart, J.A.** 2018. Session Panel Member: Fresh Water Quality and its Impacts in Appalachia. July 15, 2018. Northeast Agricultural and Biological Engineering Conference, Morgantown, WV.
- 17) **Hubbart, J.A.** 2018. Davis College of Agriculture, Natural Resources and Design, College Farm Review Presentation: Activities of the Interdisciplinary Hydrology Laboratory and the Institute of Water Security and Science. June 22, 2018, Morgantown, WV.
- 18) **Hubbart, J.A.** 2018. Introduction to West Run Watershed Experimental Research Collaborative. IWSS Spring Conference Feb 20 – Feb 21, 2018, Morgantown, WV.
- 19) **Hubbart, J.A.** 2018. WVU Institute of Water Security and Science (IWSS). West Virginia University, Centers Presentation. January 30, 2018. WVU Research Corporation.

- 20) **Hubbart, J.A.** 2018. Fundamentals of Nutrient Management, Environmental Management. WVU Extension Service Fundamentals of Nutrient Management course. January 5, 2018, Davis College of Agriculture, Natural Resources and Design, Morgantown, WV.
- 21) **Hubbart, J.A.** 2017. Advancing Science and Management in Contemporary Mixed-Land-Use Watersheds, December 1, 2017, West Virginia University, Division of Geography, Eberly College of Arts and Sciences, Morgantown, West Virginia, USA.
- 22) **Hubbart, J.A.** 2017. The West Virginia University Institute of Water Security and Science (IWSS), Mission, Collaborative Capacity, Current Activities and Opportunities. In: U.S. Energy Policy: Energy Security and Independence. US Department of State European Visitor Program, June 12, 2017, Morgantown, West Virginia, USA.
- 23) **Hubbart, J.A.** 2017. The West Virginia University Institute of Water Security and Science (IWSS), Mission, Collaborative Capacity and Opportunities. In: Visit of Ningxia Delegation, Ningxia University, China, June 12-13, 2017, Davis College, Morgantown, West Virginia, USA.
- 24) **Hubbart, J.A.** 2017. National Science Foundation Reverse Site Visit, April 6th, 2017. The Current State of Science Objectives in the West Virginia Appalachian Freshwater Initiative. Arlington, Virginia, USA.
- 25) **Hubbart, J.A.** 2017. The Institute of Water Security and Science: Mission and Activities. WVU Shale Gas Network Forum. March 22, 2017, Erickson Alumni Center, Morgantown, West Virginia, USA.
- 26) **Hubbart, J.A.** 2017. New Frontiers in Water Resources: Measuring and Monitoring the Hydrodynamics and Water Quality of Mixed Land Use Watersheds. January 25, 26, 2017, ISENSE, Florida Atlantic University, USA.
- 27) **Hubbart, J.A.** 2016. Institute of Water Security and Science. The Agriculture and Natural Resource WVU Extension Service Fall Meeting. November 16th, 2016, Jackson's Mill, West Virginia.
- 28) **Hubbart, J.A.** 2016. Measuring and Monitoring Water Quantity and Quality in West Virginia: Modes and Methods. WV Conservation planning meeting, June 28th, 2016, Tygart Valley, West Virginia.
- 29) **Hubbart, J.A.** 2016. Communicating Science to the Media. *In* Sensing the Environment: Investigating Community Water Stories with Sensor Journalism. WVU College of Media Innovation Center Workshop. April 30th, 2016, Morgantown, West Virginia.
- 30) **Hubbart, J.A.** 2016. The WVU Institute of Water Security and Science (IWSS). Davis College Faculty Meeting. April 15th, 2016, Morgantown, West Virginia.
- 31) **Hubbart, J.A.** 2016. The WVU Institute of Water Security and Science: Purposes and Directions. Annual meeting of the West Virginia Conservation Association. April 5, 2016. Glade Springs, West Virginia.
- 32) **Hubbart, J.A.** 2016. The New WVU Institute of Water Security and Science: Purposes and Directions. 2016 West Virginia Mine Drainage Task Force Symposium. March 29-30, 2016. Morgantown, West Virginia.
- 33) **Hubbart, J.A.** 2016. The WVU Institute of Water Security and Science: Mission and Vision. Society of Environmental Professionals. Davis College of Agriculture, Natural Resources and Design. West Virginia University, March 2, 2016.
- 34) **Hubbart, J.A.** 2015. Ecosystem CO₂ and H₂O Flux: The Missouri AmeriFlux Site, Application for Quantifying Crop Productivity and Water Use. High-efficient Water Use in Agriculture, Project (111 Plan) Workshop. Water and Food Security under Changing Environments. China Agricultural University, Beijing, China, June 1 – 7, 2015.
- 35) **Hubbart, J.A.** 2015. Ameriflux: The Missouri Site; 10-yr of Ecosystem CO₂ and H₂O Flux and a Greater Westward Influence of Drought in the Eastern Deciduous Forest. Swedish University of Agricultural Sciences, Umea', Sweden, May 27th, 2015.

- 36) Power, R., **Hubbart, J.A.**, Gumbert, A., Berger, W. and M. Schmitt. May 19, 2015. Hypoxia Task Force and LGU SERA-46 Priorities for Collaborative Work. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 37) Schmitt, M., Power, R., **Hubbart, J.A.** Berger, W. May 19, 2015. Land-Grant University Faculty Perspectives on Gulf Hypoxia. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 38) Power, R., and **Hubbart, J.A.** May 19, 2015. What is SERA-46. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 39) **Hubbart, J.A.** May 19, 2015. Mixed-Land-Use Hydrology, Pollutant Transport and Loading: The IHL. Land-Grant University Southern Region Extension and Research Activities Committee 46 (SERA-46) May 18-20, 2015, Columbus, Ohio.
- 40) **Hubbart, J.A.** April 14, 2015. A Watershed Case Study – Hinkson Creek to the Gulf. Missouri River Relief, Rocheport, Missouri.
- 41) **Hubbart, J.A.** February 13, 2015. College of Agriculture, Food, and Natural Resources Center for Watershed Management and Water Quality. Breaking Down Silos: The Role of Partnership in Watershed Planning. 2015 Watershed Workshop. University of Missouri Extension, February 13-14, 2015.
- 42) **Hubbart, J.A.** and L. Hooper. October 29, 2014. Highlights of the Hinkson Creek Physical Habitat Assessment in the Upper Reaches, E. O’Rear Road to the Headwaters. Hinkson Creek Watershed Collaborative Adaptive Management Science Team meeting.
- 43) **Hubbart, J.A.** October 1, 2014. Creating a Conduit for Water Resources and Water Quality Expertise: The CAFNR Water Center. Extension Beyond Borders: Strengthening Networks for More Effective Water Resource Management. North Central Region Water Network Annual Conference.
- 44) **Hubbart, J.A.** and E. Kellner. April 11, 2014. Urban Water Quality: Suspended Sediment Regimes and University Leadership. Oral presentation, University S&T, Department of Civil, Architectural & Environmental Engineering.
- 45) Hooper, L., and **J.A. Hubbart**. April 4, 2014. Physical Habitat Assessment of Hinkson Creek, Boone County, Missouri. A presentation to Our Wild Nature group, Columbia, Missouri.
- 46) Hooper, L., and **J.A. Hubbart**. March 27, 2014. Interim Report on the Status of Physical Habitat Assessment of Hinkson Creek, Boone County, Missouri. Hinkson Creek Watershed Collaborative Adaptive Management Stakeholders Committee meeting.
- 47) **Hubbart, J.A.** March 14, 2014. The CAFNR Center for Watershed Management and Water Quality. CAFNR presentation during biannual faculty meeting, University of Missouri, Missouri, USA.
- 48) **Hubbart, J.A.** and K. Smarr. January 13, 2014. Empowering Faculty to be Brand Advocates. Power Up CASE VI Conference, Kansas, Missouri, USA.
- 49) **Hubbart, J.A.** November 6, 2013. Native Willows and Floodplain Forests for Stormwater Management. Grow Native; 2013 Professional Member Conference of the Missouri Prairie Foundation. Oral presentation and field-site tour.
- 50) **Hubbart, J.A.** April 23, 2013. Science, Politics and Society. An Informal Discussion with the MU Student Chapter of the Soil and Water Conservation Society, University of Missouri, Columbia, MO.
- 51) **Hubbart, J.A.** February 25, 2013. Panel to discuss “Hydrology and the Impact of Drought” with visiting scientists and administration from the Missouri Department of Natural Resources, University of Missouri, Columbia, MO.
- 52) **Hubbart, J.A.** February 20, 2013. University of Missouri Fish and Wildlife Freshman Interest Group (FIG) presentation on research as a career. University of Missouri, Columbia, MO.
- 53) **Hubbart, J.A.** January 9, 2013. Floodplain Forests: Flood Attenuation, Landscape Connections and Energy Solutions. 4th Annual Agroforestry Symposium. University of Missouri, Columbia, MO.

- 54) **Hubbart, J.A.** January 7, 2013. Native Willows and Floodplain Forests: Stormwater Management and Energy Solutions. National Green Centre Convention, by the Western Nursery & Landscape Association. St. Louis Convention Center. St. Louis, MO.
- 55) **Hubbart, J.A.*.** 2012. Hydrological Processes, Suspended Sediment and Chemical Loading in a Multiple Land-Use Watershed of the Central USA. Max Planck Institute of Biogeochemistry, Jena, Germany, December 18th, 2012. (Oral)
- 56) **Nichols, J., and J.A. Hubbart.** September 28, 2012. Macroinvertebrate Assemblages in a Multi-Use Impacted Stream of the Midwest: Water Quality, Woody Roots and Physical Habitat. Missouri Department of Conservation, Central Regional Office, Columbia, MO.
- 57) **Hubbart, J.A.** September 16, 2012. A Water Ethic: Sustainability. Presentation to incoming freshman about water sustainability. Sustainable Peers Reaching Out. University of Missouri Environmental Leadership Office. University of Missouri, Columbia, MO.
- 58) **Hubbart, J.A.** September 7, 2012. Contemporary Forest Hydrology: The Nexus of Wildland and Built Environments. Missouri Department of Conservation, Central Regional Office, Columbia, MO.
- 59) **Hubbart, J.A.** August 1, 2012. Hinkson Creek: Collaborative Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Stakeholders Meeting Presentation. Boone County Commission Building, Columbia, MO.
- 60) **Hubbart, J.A.** July 11, 2012. Prairie Fork Conservation Area: An Overview of Current Projects Objectives and Goals. Presentation for the University of Missouri Conservation Honors Program, University of Missouri, Columbia, MO.
- 61) **Hubbart, J.A.** July 10, 2012. Hinkson Creek: Collaborative Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Science and Advisory Team Presentation. University of Missouri, Columbia, MO.
- 62) **Hubbart, J.A.** June 1, 2012. Trees for Stormwater Runoff Best Management Practices in Urban Watersheds. University of Missouri, Botanic Garden Advisory Council.
- 63) **Hubbart, J.A.** May 16, 2012. Hinkson Creek Watershed: Science-Based Understanding for Adaptive Management. Hinkson Collaborative Adaptive Management (CAM) Science Team Presentation.
- 64) **Hubbart, J.A.** March 28, 2012. University of Missouri, Environmental Affairs and Sustainability Committee, special presentation, "University of Missouri, EASC: Organization and Planning".
- 65) **Hubbart, J.A.** October 14, 2011. Invited guest speaker by Dr. Clark Gantzer for Environmental Science 1100. I met the class at one of my experimental watershed gauge sites (Broadway Ave) to talk about urban land use hydrology and water quality and technologies for monitoring.
- 66) **Hubbart, J.A.** August 19, 2011. Current Research in Hinkson Creek Watershed: MU Interdisciplinary Hydrology Laboratory Status Report. A presentation to the Hinkson Creek Adaptive Management Science Team (University of Missouri, Missouri Dept. of Natural Resources, Boone County).
- 67) **Hubbart, J.A.** August 16, 2011. Hinkson Creek Watershed: Providing Science-Based Leadership For Adaptive Management. A presentation to the Missouri Department of Natural Resources, 319 grant review.
- 68) **Hubbart, J.A.** April 28, 2011. The University of Missouri: Preparing the Next Generation of Water Resource Professionals. Presentation for Environmental Protection Agency, Dr. Karl Brooks (EPA Region 7 Administrator) representing the UM College of Agriculture, Food and Natural Resources.
- 69) **Hubbart, J.A.** April 25, 2011. Hinkson Creek Watershed: Providing Science-Based Leadership for Adaptive Management. Presentation to Boone County, and City of Columbia Mayor, and Administrators, Boone County Building, Columbia, MO.
- 70) **Hubbart, J.A.** April 4, 2011. Human Disturbance and Urban Ecosystem Health: Can There Be Both? Invited Speaker, Discussions on Science and Public Policy (GH1070). University of Missouri, Department of Psychology.

- 71) **Hubbart, J.A.**, and G. Freeman. March 29th, 2011. Suspended Sediment Trends in a Multiple Landuse Watershed. In. Pathways to Rehabilitation: Identifying Causes of Stream Impairment Due to Multiple Stresses, USGS CERC Workshop, Columbia, MO.
- 72) **Hubbart, J.A.** March 24, 2011. Improving Urban Floodplain Management: Implications for Stormwater Mitigation. Presentation to University of Missouri, Environmental Health and Safety, Sustain Mizzou, technology transfer, and fostering continued research partnerships.
- 73) **Hubbart, J.A.** March 9, 2011. A TMDL for the Hinkson Creek Watershed: Volume Based Flow Reductions. Guest speaker for Limnology Course (Dr. Jack Jones), University of Missouri, Department of Fisheries and Wildlife Sciences.
- 74) Schulz, J.H. and **J.A. Hubbart**. August 30, 2010. A Vision for a Watershed Management and Research Program: Linking Physical Processes, Ecology, and People in the Hinkson Creek Watershed. Department of Forestry, University of Missouri, Columbia, MO.
- 75) **Hubbart, J.A.** July 15, 2010. Prairie Fork Conservation Area: An Overview of Current Projects Objectives and Goals. Presentation for the University of Missouri Conservation Honors Program, University of Missouri, Columbia, MO.
- 76) **Hubbart, J.A.** April 20, 2010. Hinkson Creek Watershed: An Overview of Current Projects. Presentation for Water Quality Coordinating Committee of Missouri Department of Natural Resources. USGS Columbia Environmental Research Center, Columbia, MO.
- 77) **Hubbart, J.A.** March 6, 2010. Improving Understanding of Dynamic Urban Hydrologic Processes and Water Quality in the Central U.S. Presentation to the 2010 Boone County Stream Team Summit, Columbia, MO.
- 78) Schulz, J.H., and **J.A. Hubbart**. February 12, 2010. Hinkson Creek: Linking Physical Processes, Ecology, and People: A vision for a watershed management and research program. Invited presentation to the Geotechnical & GeoEnvironmental Engineering Seminar, Dept. of Civil and Environmental Engineering, University of Missouri, Columbia, MO.
- 79) **Hubbart, J.A.**, and Heers, Jesse. December 1, 2009. Campbell Scientific Training. An Introduction to LoggerNet 4.0 and the CR1000 Datalogger. A half-day Campbell Scientific training session hosted by the University of Missouri, School of Natural Resources.
- 80) **Hubbart, J.A.**. November 30, 2009. Interdisciplinary Hydrologic Science: Towards Improved Understanding of Urban Hydrologic Processes and TMDL Allocations. Department of Civil and Environmental Engineering, Environmental Group, and Environmental Compliance Students, University of Missouri, Columbia, MO.
- 81) **Hubbart, J.A.**. October 28, 2009. Sustain Mizzou: The Land Trust Concept, Greenbelt Land Trust of Missouri. Stewart Hall Auditorium, University of Missouri, Columbia, MO.
- 82) **Hubbart, J.A.** November 4, 2009. The US Geological Survey, CERC. Urban Ecosystems: Alterations to Peakflow, Microclimate and the Natural Environment, Future Directions. USGS, Columbia, MO.
- 83) **Hubbart, J.A.**. November 12, 2008. Land Use Impacts on Hydrologic Processes and Water Quality. A seminar presented during the Environmental Science Club for Water Quality and Conversation Week, School of Natural Resources, University of Missouri, Columbia, MO.
- 84) **Hubbart, J.A.**. September 16, 2008. The Effects of Management on Hydrologic Processes in Rocky Mountain and Ozark Mountain Watersheds. The College of Agricultural & Natural Sciences, Lincoln University, Jefferson City, MO.
- 85) **Hubbart, J.A.** and K. Stephan. July 29, 2008. Effects of Forest Harvest and Wildfire on Hydrologic Processes and Nitrogen Dynamics in Rocky Mountain and Ozark Mountain Watersheds. Friedrich-Schiller University, Institute for Ecology, Jena, Germany.
- 86) **Hubbart, J.A.**. April 19, 2008. The Impacts of Development on Water Quality: What Effects Do Different Land Uses Have On Water Quality and How Does Human Activity Affect the Delivery of Water to Streams. The Lakes of Missouri Volunteer Program.

- 87) **Hubbart, J.A.**. January 10, 2007. Measuring and Modeling Hydrologic Responses to Timber Harvest in a Continental/Maritime Mountainous Environment. A Synthesis of Current Results and Future Directions of Research at the Mica Creek Experimental Watershed. UICWF Mica Creek working group meeting,
- 88) Link, T.E., T. Cundy, J. Gravelle, **J.A. Hubbart**, D. Karwan, and J. Broglio. September 28, 2006. Findings From the Mica Creek Test of the Idaho Forest Practices Rules. The National Council for Air and Stream Improvement (NCASI), West Coast Regional Meeting, Portland, OR.
- 89) **Hubbart, J.A.**. March 28, 2006. Measuring and Modeling Hydrologic Responses to Timber Harvest in a Continental/Maritime Mountainous Environment. A Synthesis of Current Results and Future Directions of Research at the Mica Creek Experimental Watershed. UICWF Mica Creek working group meeting, Lewiston, ID.
- 90) **Hubbart, J.A.** March 7-8, 2006. Forest Harvesting Impacts on the Hydrologic Yield of a Mountainous Watershed in the Continental/Maritime Hydroclimatic Region. Oral Presentation for: the 23rd Annual Inland Empire Forest Engineering Conference – Moscow, ID,
- 91) **Hubbart, J.A.**, T.E. Link, J.A. Gravelle, and W.J. Elliot. January 20, 2006. Timber Harvest Impacts on the Hydrologic Yield of the Mica Creek Watershed. Oral presentation delivered at: Cumulative effects of contemporary timber harvest practices in a continental/maritime mountainous watershed: A synthesis of current results from the Mica Creek Study. Potlatch Corporation, Clarkston, WA.

Conferences (= presenting author)*

- 1) Gootman, K*., and **J.A. Hubbart**. 2021. Characterization of Surface Water and Groundwater Suspended Sediment in a West Virginia Mixed-Use, Agro-Forested Watershed. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – New Orleans, Louisiana, USA, December 13-17, 2021. (Poster)
- 2) Wilson, M.E*., K. Shaffer, S. Plum, K. Garossino, N. Lansink, **J.A. Hubbart**, J. Hatton, and J. Kim. 2021. Predicting Dry matter Intake in Beef Cattle with Water Intake and Other Variables. 2021 Annual Meeting of the American Society of Animal Sciences, July 14, 2021. (Oral)
- 3) **Hubbart, J.A***. 2021. A 22-Site Mixed Land Use Experimental Watershed Investigation of Fecal Indicator Bacteria. WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research. Workshop I: Sensors and Water Resources: Chemical, Physical, and Biological Water Quality Detection. May 19, 2021. (Oral)
- 4) De Silva, S*., J. Anderson, **J.A. Hubbart**, M.P. Strager, E. Kellner. 2021. Evaluating Impacts of Anthropogenic Disturbance to Wetland Water Quality Functions. WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research Workshop. Poster Session. May 19, 2021. (Poster)
- 5) Petersen, F*., and **J.A. Hubbart**. 2021. Advancing Quantitative Understanding of Escherichia Coli Concentrations in a Contemporary Mixed Land-Use Watershed, in West Virginia USA. WVU Institute of Water Security and Science (IWSS) Advances in West Virginia Water Research Workshop. Poster Session. May 19, 2021. (Poster)
- 6) Heck, Z*., **J.A. Hubbart**. 2021. Development of Paired-Nested-Scale Multi-Catchment Rating Curve Development for Appalachian Mixed-Land-Use Watersheds. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 13, 2021. Morgantown, WV. (Poster)
- 7) Lozon, D.N*., D. Brown, **J.A. Hubbart**, and J.T. Anderson. 2021. Mercury Levels in Snapping Turtles (*Chelydra serpentina*) Raise Concern for West Virginia Daily Harvest Limits. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 13, 2021. Morgantown, WV. (Poster)
- 8) Williams, S*., **J.A. Hubbart**, and S. Hickman. 2021. Analyzing Total Suspended Solids in the West Run Watershed Using Method SM2540B. West Virginia University, Undergraduate Research Day, April, 2021.

- 9) Gootman, K*., **J.A. Hubbard**, E. Kellner and Z. Heck. 2020. A Validation of Saturated Hydraulic Conductivity Models: Improving Predictive Confidence of Shallow Groundwater-Surface Water Flow Response to Precipitation Events. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – San Francisco, CA, USA, December 7-11, 2020. (Poster)
- 10) **Hubbard, J.A*.**, and E. Kellner. 2020. Investigating Total and Reactive Phosphorus Concentration and Suspended Solids Particle Size Class in a Mixed-Use Appalachian Watershed. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – San Francisco, CA, USA, December 7-11, 2020. (Poster)
- 11) Zeiger, S*., and **J.A. Hubbard**. 2020. Event-Based Environmental Flow Analysis Using an Integrated Modeling Approach. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – San Francisco, CA, USA, December 7-11, 2020. (Poster)
- 12) Kellner, E*., and **J.A. Hubbard**. 2020. Sub-Watershed Trace Element Regimes in Surface Waters of an Appalachian Mixed-Land-Use Watershed. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – San Francisco, CA, USA, December 7-11, 2020. (Poster)
- 13) Petersen, F*., and **J.A. Hubbard**. 2020. Spatial and temporal characterization of *Escherichia Coli*, suspended particulate matter, physiochemical and land use practice relationships in a contemporary mixed-land use watershed. Annual Meeting (Virtual) of the American Geophysical Union (AGU) – San Francisco, CA, USA, December 7-11, 2020. (Poster)
- 14) Kellner, R.E*., and **Hubbard, J.A.** 2020. Demonstration Farm Opportunity in the Chesapeake Bay Watershed. November 20, 2020. Natural Resources Conservation Service (NRCS), and Environmental Protection Agency (EPA), Virtual. (Oral)
- 15) **Hubbard, J.A*.** 2020. Advancing Understanding of Total and Reactive Phosphorus Concentration and Suspended Solids Particle Size Class. November 16 – 19, 2020. Interagency Conference on Research in the Watersheds, Virtual ICRW7. (Poster)
- 16) Kellner, R.E*., and **Hubbard, J.A.** 2020. Sub-Watershed Trace Element Regimes in Surface Waters of an Appalachian Mixed-Land-Use Watershed. November 16 – 19, 2020. Interagency Conference on Research in the Watersheds, Virtual ICRW7. (Poster)
- 17) **Hubbard, J.A*.** and R.E. Kellner. 2020. Advancing Understanding of Total and Reactive Phosphorus Concentration and Suspended Solids Particle Size Class. November 16 – 19, 2020. Interagency Conference on Research in the Watersheds, Virtual ICRW7. (Poster)
- 18) Kellner, E*., and **J.A. Hubbard**. 2020. Sub-Watershed Trace Element Regimes in Surface Waters of an Appalachian Mixed-Land-Use Watershed (Virtual). University of Maryland Center for Environmental Science, Appalachian Lab, Frostburg, MD. November 12, 2020. (oral)
- 19) **Hubbard, J.A*.** 2020. Appalachian Freshwater Initiative Industrial Advisory Board. A Virtual presentation for the annual all hands meeting of the 2015 NSF Established Program to Stimulate Competitive Research (EPSCoR) program for West Virginia. November 10, 2020.
- 20) **Hubbard, J.A*.** 2020. Sustainability of AFI Research. A Virtual presentation for the annual all hands meeting of the 2015 NSF Established Program to Stimulate Competitive Research (EPSCoR) program for West Virginia. November 9, 2020.
- 21) **Hubbard, J.A*.**, and E. Kellner. 2020. A Quantitative Assessment of Watershed Total and Reactive Phosphorus Concentration and Suspended Solids Particle Size Class. Society of American Foresters Virtual Convention, United States, October 29 – October 31, 2020. (Poster)
- 22) **Hubbard, J.A*.** 2020. Changing Climate Variance and the Eastern Deciduous Forest of the United States. Society of American Foresters Virtual Convention, United States, October 29 – October 31, 2020. (Poster)
- 23) **Hubbard, J.A*.** 2020. A Nested-Scale and Paired Watershed Investigation of Manganese and Land-Use Practices. Society of American Foresters Virtual Convention, United States, October 29 – October 31, 2020. (Poster)

- 24) Zeiger, S*., and **J.A. Hubbard**. 2020. An Investigation of Event-Based Environmental Flow Analysis Using an Integrated Modeling Approach. Society of American Foresters Virtual Convention, United States, October 29 – October 31, 2020. (Poster)
- 25) **Hubbart, J.A.***. 2020. Enhancing the Security and Integrity of America's Research Enterprise. The White House Office of Science and Technology Policy. October 1, 2020. (Conference Attendee)
- 26) Lozon, D*., D.J. Brown, **J.A. Hubbard**, and J.T. Anderson. Comparing Wetland Soil Contamination to Freshwater Turtle Heavy Metal Bioaccumulation. The Turtle Survival Alliance 2020 Virtual Symposium. September 24, 2020. (Oral)
- 27) **Hubbart, J.A.***. 2020. Board on Agriculture and Natural Resources (BANR), Webinar on COVID-19 and the Food and Agricultural System (Virtual meeting). June 19th, 2020. (Conference Attendee)
- 28) **Hubbart, J.A.***. 2020. Society of American Foresters. Town Hall Meeting (Virtual). May 27, 2020. (Meeting Attendee)
- 29) **Hubbart, J.A.***. 2020. Hypoxia Task Force February 2020 Public Meeting Webcast. February 2, 2020. (Attendee, SERA-46 member)
- 30) De Silva., S*., J.T. Anderson, **J.A. Hubbard.**, R.A. Kellner, M.P. Strager, E.A. Byers, and C.T. Rota. 2020. West Virginia Wetland Water Quality Standards. Delaware Wetlands Conference, January 9-30, 2020, Wilmington, DE, USA. (Poster).
- 31) Lozon, D*., **J.A. Hubbard.**, D.J. Brown, and J.T. Anderson. 2020. Landscape Effects on Freshwater Turtle Heavy Metal Bioaccumulation in West Virginia Wetlands. Delaware Wetlands Conference, January 9-30, 2020, Wilmington, DE, USA. (Oral).
- 32) Lozon, D*., D.J. Brown, **J.A. Hubbard**, and J.T. Anderson. 2019. Landscape Effects on Freshwater Turtle Heavy Metal Bioaccumulation in West Virginia Wetlands. American Fisheries Society – TWS Joint Meeting, September 29 – October 3, 2019, Reno, Nevada, USA. (Poster)
- 33) **Hubbart, J.A.***. 2019. State of West Virginia, Established Program to Stimulate Competitive Research, Overview of the Appalachian Freshwater Initiative, RII Industry Advisory Board meeting, August 26, 2019. (Oral)
- 34) **Hubbart, J.A.***. 2019. State of West Virginia, Established Program to Stimulate Competitive Research, Appalachian Freshwater Initiative Research Focus, Group 1: Chemical, Physical and Biological Water Quality Detection (Sensors Group), RII Industry Advisory Board meeting, August 26, 2019. (Oral)
- 35) **Hubbart, J.A.***, and E. Kutta. 2019. Changing Climate Variance and Implications for the Eastern Deciduous Forest of the United States. Ecological Society of America Annual Meeting, August 11-16, 2019, Louisville, Kentucky, USA. (Oral)
- 36) **Hubbart, J.A.***. 2019. State of West Virginia, Established Program to Stimulate Competitive Research, Annual All-Hands Meeting. Accomplishments of the Appalachian Freshwater Initiative, Year 4. June 13-14, 2019. Marshall University, Huntington, WV. (Oral)
- 37) Zeiger, S*., **J.A. Hubbard**. 2019. Lessons Learned from Analyzing Long-Term High-Resolution Multi-Constituent Hydroclimate and Water Quality Data. Dan and Betsy Brown Speaker Fund of WVU, Eberly College, April 9, 2019, West Virginia University. (Oral)
- 38) Petersen, F*., **J.A. Hubbard**. 2019. Advancing Quantitative Understanding of Escherichia Coli Concentrations in a Contemporary Mixed-Land-Use Watershed. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 6, 2019. Morgantown, WV. (Poster)
- 39) Heck, Z*., **J.A. Hubbard**. 2019. Paired-Nested-Scale Multi-Catchment Rating Curve Development for Appalachian Mixed-Land-Use Watersheds. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 6, 2019. Morgantown, WV. (Poster)
- 40) Zeiger, S*., **J.A. Hubbard**. 2019. Quantifying relationships between watershed characteristics and hydroecological indices of Missouri streams. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, January 30th- 31st, 2019. (Oral)

- 41) Kutta, E*., and **J.A. Hubbard**, T. Eichler, and A. Lupo. 2019. Magnitude and Symmetry of Divergent Heat Flux Anomalies Associated with the El Niño–Southern Oscillation. American Meteorology Society, 32nd Conference on Climate Variability and Change. January 6-10, 2019, Phoenix, Arizona. (Oral)
- 42) Kutta, E*., and **J.A. Hubbard**. 2019. Observed Changes in West Virginia’s Land Use, Forest Species Composition, and Climate. American Meteorology Society, 33rd Conference on Hydrology. January 6-10, 2019, Phoenix, Arizona. (Poster)
- 43) Kutta, E*., and **J.A. Hubbard**. 2018. West Virginia’s Climate System and How It’s Changing. West Virginia Science Teachers Association Fall 2018 Conference. October 25 – Oct 27, 2018. Roanoke, WV. (Oral)
- 44) Petersen, F*., **J.A. Hubbard**, E. Kellner, and E. Kutta. 2018. Land-Use-Mediated Escherichia coli Regimes in an Appalachian Watershed. Sept 18, 2018. National Science Foundation (NSF) Site Visit Student Presentation, Morgantown, WV. (Poster)
- 45) Martin, G*., C. Dang, **J.A. Hubbard**, E. Kellner, E. Morrissey, and Z. Freedman. 2018. The Role of Land Use in Shaping Stream Sediment Microbial Community Composition. August 9, 2018. Annual Meeting of the Ecological Society of America, New Orleans, Louisiana, USA. (Poster)
- 46) Kellner, R.E*., **J.A. Hubbard**, K. Stephan, E.M. Morrissey, Z.B. Freedman, E. Kutta, and C.N. Kelly. 2018. Characterization of Sub-Watershed-Scale Stream Chemistry Regimes in an Appalachian Mixed-Land-Use Watershed. July 23, 2018. Sixth Interagency Conference on Research in the Watersheds, Shepherdstown, WV. (Oral)
- 47) Kutta, E*., **J.A. Hubbard** and, R.E. Kellner. 2018. Climate Change in West Virginia and Implications for Appalachian Food Deserts. July 23, 2018. Sixth Interagency Conference on Research in the Watersheds, Shepherdstown, WV. (Poster)
- 48) **Hubbart, J.A.*.** and R.E. Kellner. 2018. The Experimental Watershed Study Approach to Monitoring and Managing Contemporary Mixed-Land-Use Watersheds. July 23, 2018. Sixth Interagency Conference on Research in the Watersheds, Shepherdstown, WV. (Oral)
- 49) Petersen, F*., **J.A. Hubbard**, R.E. Kellner, and E. Kutta. 2018. Land-Use-Mediated Escherichia coli Regimes in an Appalachian Watershed. July 23, 2018. Sixth Interagency Conference on Research in the Watersheds, Shepherdstown, WV. (Poster)
- 50) **Hubbart, J.A.*.**, R.E. Kellner, and E. Kutta. 2018. Advancements to Measuring and Managing Contemporary Mixed-Land-Use Watersheds. July 15, 2018. Northeast Agricultural and Biological Engineering Conference, Morgantown, WV. (Oral)
- 51) Kellner, R.E*., and **J.A. Hubbard**. 2018. Forest and Agricultural Land Use Impacts on Floodplain Water Table Response to Precipitation Events. July 15, 2018. Northeast Agricultural and Biological Engineering Conference, Morgantown, WV. (Poster)
- 52) Kutta, E.J*., **J.A. Hubbard**, and E. Kellner. 2018. Climate Variability and Change in West Virginia: Implications for Appalachian Food Deserts. July 15, 2018. Northeast Agricultural and Biological Engineering Conference, Morgantown, WV. (Poster)
- 53) Kutta, E*., **J.A. Hubbard**, and R.E. Kellner. 2018. Climate Variability and Change in West Virginia: Implications for Appalachian Food Deserts. UCOWR/NIWR 2018 Annual Water Resources Conference, June 6, 2018. Pittsburgh, PA, USA. (Oral)
- 54) Dang, C*., G. Martin, **J.A. Hubbard**, E. Kellner, C. Kelly, K. Stephan, R. Miller, Z. Freedman and E. Morrissey. 2018. Stream Sediment Microbial Community Function is Sensitive to Alterations in Water Chemistry Associated with Watershed Land Use. UCOWR/NIWR 2018 Annual Water Resources Conference, June 6, 2018. Pittsburgh, PA. (Poster)
- 55) Petersen, F*., **J.A. Hubbard**, R.E. Kellner and E. Kutta. 2018. Land-Use-Mediated Escherichia coli Regimes in an Appalachian Watershed. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 11, 2018. Morgantown, WV. (Poster)

- 56) Takhachhe, P*. and **J.A. Hubbard**. 2018. Spatiotemporal Variability of Stream Stage in a Small Mixed-Land-Use Watershed of Appalachia. 2018. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 11, 2018. Morgantown, WV. (Poster)
- 57) Nisan, R*. and **J.A. Hubbard**. 2018. Quantifying Suspended Sediment of a Mixed-Land-Use Appalachian Watershed. Davis College of Agriculture, Natural Resources and Design, Graduate Scholarship Conference, April 11, 2018. Morgantown, WV. (Poster)
- 58) Kellner, R.E*., **J.A. Hubbard**, E. Kutta, K. Stephan, Z.B. Freedman, and C.N. Kelly. Characterization of Sub-Watershed-Scale Stream Chemistry Regimes in an Appalachian Mixed-Land-Use Watershed. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 59) Kutta, E*., **J.A. Hubbard**, B.M. Svoma, T.P. Eichler, and A.R. Lupo. 2018. Is the Global Redistribution of Anomalous Surface Heat Fluxes Associated with ENSO Events Symmetric? IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Oral)
- 60) Dang, C*., G. Martin, **J.A. Hubbard**, R.E. Kellner, C. Kelly, K. Stephan, R. Miller, Z. Freedman and E. Morrissey. 2018. Stream sediment microbial community function is sensitive to alterations in water chemistry associated with watershed land use. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 61) **Hubbart, J.A***. and K. Stephan. 2018. Investigating Carbon in Soil and Vegetation: A Forested Wildland to Urban Transect. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 62) Nisan, R*. and **J.A. Hubbard**. 2018. Quantifying Suspended Sediment of a Mixed-Land-Use Appalachian Watershed. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 63) Burney, C*., and **J.A. Hubbard**. 2018. Investigating Tea Growing (*Camellia sinensis*) for the Advancement of West Virginia Agriculture. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 64) Kellner, R.E*., and **J.A. Hubbard**. 2018. Forest and Agricultural Land Use Impacts on Floodplain Water Table Response to Precipitation Events. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 65) Hentz*, A.K., **J.A. Hubbard**, R.E. Kellner and P. Kinder. 2018. Application of UAV (Drone) imagery in aquatic physical habitat assessment. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 66) **Hubbart, J.A***. and R.E. Kellner. 2018. Experimental Watershed Study Designs: A Tool for Advancing Process Understanding and Management of Mixed-Land-Use Watersheds. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 67) Petersen, F*., **J.A. Hubbard**, R.E. Kellner and E. Kutta. 2018. Relationship between E. coli and Land Use Activities in the West Run Watershed. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 68) Kutta, E*. and **J.A. Hubbard**. 2018. Agricultural Opportunities in Appalachia's Changing Climate: A Case Study of West Virginia. IWSS Spring Conference Feb 20 – Feb 21, 2018, Morgantown, WV. (Poster)
- 69) Takhachhe, P*. and **J.A. Hubbard**. 2018. Spatiotemporal Variability of Stream Stage in a Small Mixed-Land-Use Watershed of Appalachia. 2018. IWSS Spring Conference Feb 20 – Feb 21, 2018. Morgantown, WV. (Poster)
- 70) Zeiger, S*., **J.A. Hubbard**. 2018. Measuring and Modeling Suspended Sediment and Nutrient Yields from a Mixed-Land-Use Watershed of the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, January 31th- Feb 1st, 2018. (Oral)
- 71) **Hubbart, J.A***, R-M Muzika, and R. Guyette. 2017. Beyond Drought: Excessive Wetness, Precipitation Variance and Eastern Deciduous Forest Productivity. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Oral)

- 72) **Hubbart, J.A.***, E. Kellner. 2017. Managing Contemporary Mixed-Land-Use Watersheds: Resurrecting the Experimental Watershed Study Approach. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Oral)
- 73) Stephan, K*., **J.A. Hubbart**, K. Beaven, and E. Spiegel. 2017. Contrasting Carbon in Soil and Vegetation of Forested Wildland and Urban Sites along an Urbanization Gradient. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Poster)
- 74) Kellner, E*., and **J.A. Hubbart**. 2017. Multiple-Land-Use Impacts on Urban Bottomland Hardwood Forest Floodplain Groundwater Processes. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Poster)
- 75) Kellner, E*., and **J.A. Hubbart**. 2017. Mixed-Land-Use Impacts on Forested and Agricultural Floodplain Water Table Response to Precipitation Events. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Oral)
- 76) Kellner, E*., and **J.A. Hubbart**. 2017. Quantitatively Characterizing Forested and Agricultural Floodplain Shallow Groundwater Temperature Regimes. Society of American Foresters, 2017 National Convention, Albuquerque, New Mexico, November 15-19. (Poster)
- 77) **Hubbart, J.A.***, and K. Stephan. Advancing Quantitative Understanding of Urban Forest Carbon Sequestration and Climate Mitigation Potential. International Union of Forest Resource Organizations (IUFRO) 125th Anniversary Congress, September 18 – 22, 2017, Freiburg, Germany. (Poster)
- 78) **Hubbart, J.A.***. Beyond Drought: Excessive Wetness, Precipitation Variance and Forest Productivity. International Union of Forest Resource Organizations (IUFRO) 125th Anniversary Congress, September 18 – 22, 2017, Freiburg, Germany. (Poster)
- 79) **Hubbart, J.A.***, and K. Stephan. Advancing Quantitative Understanding of Urban Forest Carbon Sequestration and Climate Mitigation Potential. ANS-PSS joint collaborative poster session, September 8th, 2017. West Virginia University. (Poster)
- 80) Kutta, E*., **J.A. Hubbart**, B.M. Svoma, T. Eichler, A. Lupo. 2017. The Horizontal Redistribution of Anomalous Vertical Heat Fluxes at Tropical Latitudes. Inaugural School of Natural Resources Research Day, May 3, 2017, University of Missouri, School of Natural Resources, Columbia, Missouri, USA. (Poster)
- 81) **Hubbart, J.A.***, E. Kellner, and S. Zeiger. 2017. Experimental Watershed Study Designs: A Tool for Advancing Process Understanding and Management of Mixed-Land-Use Watersheds. Annual Symposium of the Institute of Water Security and Science, February 28th, 2017 West Virginia University. (Poster)
- 82) Kellner, E*., and **J.A. Hubbart**. 2017. Advancing Understanding of Multiple-Land-Use Impacts on Urban Floodplain Groundwater Processes. Annual Symposium of the Institute of Water Security and Science, February 28th, 2017 West Virginia University. (Poster)
- 83) Kutta, E*., and **J.A. Hubbart**. 2017. Spatiotemporal Variance of Global horizontal Moisture Transport and the Influence of Strong ENSO Events Using ERA-Interim Reanalysis. Annual Meeting of the American Meteorological Society (AMS) – Seattle, WA, January 22-26th, 2017. (Oral)
- 84) **Hubbart, J.A.***, E. Kellner, and S. Zeiger. 2017. Experimental Watershed Study Designs: A Tool for Advancing Process Understanding and Management of Mixed-Land-Use Watersheds. ANS-PSS joint collaborative poster session, January 20th, 2017. West Virginia University. (Poster)
- 85) Kellner, E*., and **J.A. Hubbart**. 2017. Advancing Understanding of Multiple-Land-Use Impacts on Urban Floodplain Groundwater Processes. ANS-PSS joint collaborative poster session, January 20th, 2017. West Virginia University. (Poster)
- 86) Zeiger, S*., and **J.A. Hubbart**. 2016. Measuring and Modeling Suspended Sediment and Nutrient Yields from a Mixed-Land-Use Watershed of the Central U.S. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 11-17, 2016. (Oral)

- 87) Zeiger, S*., and **J.A. Hubbard**. 2016. Quantifying Flow and Pollutant Loading at Nested-Scales in a Mixed-Land-Use Watershed of the Central United States. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 11-17, 2016. (Poster)
- 88) Kutta, E*., and **J.A. Hubbard**. 2016. Spatiotemporal Variance of Global horizontal Moisture Transport and the Influence of Strong ENSO Events Using ERA-Interim Reanalysis. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 11-17, 2016. (Poster)
- 89) Kellner, E*., and **J.A. Hubbard**. 2016. Advancing Understanding of Multiple-Land-Use Impacts on Urban Floodplain Groundwater Processes. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 11-17, 2016. (Oral)
- 90) **Hubbart, J.A*.**, E. Kellner, and S. Zeiger. 2016. Experimental Watershed Study Designs: A Tool for Advancing Process Understanding and Management of Mixed-Land-Use Watersheds. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 11-17, 2016. (Poster)
- 91) Sunde, M*., H.S. He, **J.A. Hubbard**, and C. Scroggins. 2016. Using CMIP5 Data coupled with a Physically-Based Watershed Model to Estimate Potential Hydrologic changes in an Urbanizing Midwestern Watershed. Annual US-IALE (International Association for Landscape Ecology) Symposium, April 3-7, 2016. Oral.
- 92) Simpson, M*., **J.A. Hubbard**, and N. Fox. 2015. Impacts of Spatial and Temporal Variability on Radar Rainfall Estimation as a Function of Distance. Annual NSF EPSCoR Meeting, June 2, 2015. Poster.
- 93) **J.A. Hubbard***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. The 2015 Environmental System Science (EES) Investigators Meeting. Bolger Center, Potomac MD, April 28-29. (Poster)
- 94) Halley, A.W*., **J.A. Hubbard**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. The 2015 Environmental System Science (EES) Investigators Meeting. Bolger Center, Potomac MD, April 28-29. (Poster)
- 95) **J.A. Hubbard***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. AmeriFlux Principle Investigators meeting, Omni Shoreham Hotel, Washington D.C. January 29th – 30th. (Poster)
- 96) Halley, A.W*., **J.A. Hubbard**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. AmeriFlux Principle Investigators meeting, Omni Shoreham Hotel, Washington D.C. January 29th – 30th. (Poster)
- 97) **J.A. Hubbard***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. 5th North American Carbon Program (NACP) Principle Investigators meeting, Washington D.C. January 26th – 28th. (Poster)
- 98) Halley, A.W*., **J.A. Hubbard**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. 5th North American Carbon Program (NACP) Principle Investigators meeting, Washington D.C. January 26th – 28th. (Poster)
- 99) Zeiger, S*., **J.A. Hubbard**, and R. O’Hearn. 2015. Nutrient Export in an Urbanizing Agricultural Watershed of the Lower Missouri River Basin, U.S.A. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Oral)
- 100) Hooper, L*., **J.A. Hubbard**. 2015. A Stream Physical Habitat Assessment in an Urbanizing Watershed of the Central U.S.A. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 101) Hogan, M*., **J.A. Hubbard**. 2015. Improving Mechanistic Understanding of the Role of Woody Roots in Erosion Prevention and Stream Bank Stabilization. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 102) **J.A. Hubbard***, S.G. Pallardy, and L. Gu. 2015. A Greater Westward Influence of Drought in the Eastern Deciduous Forest. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)

- 103) Halley, A.W*, **J.A. Hubbard**, S.G. Pallardy, and L. Gu. 2015. Monitoring Oak-Hickory Forest Mortality with Biological Inventories in Central Missouri. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 104) Beaven, K*, **J.A. Hubbard**, and K. Stephan. 2015. Investigating Soil Carbon, Nitrogen and Respiration across an Urban to Forested Gradient in Mid-Missouri. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 105) Skornia, E.E*, J. Piercefield, A. Andrei, and **J.A. Hubbard**. 2015. The Effects of the Urban Gradient on Avian Population. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 4th-6th. (Poster)
- 106) **Hubbard, J.A.***, S. Zeiger, and L. Hooper. 2014. Understanding the Chloride Regime of a Midwest Mixed-Land-Use Watershed. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-20, 2014. (Poster)
- 107) Hooper, L*, **J.A. Hubbard**, G.W. Hosmer, and M.L. Hogan. 2014. Characterizing Physical Habitat of a Mixed-Land Use Stream of the Central U.S. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-20, 2014. (Poster)
- 108) Kellner, E*, and **J.A. Hubbard**. 2014. Rural Land Use Impacts on Floodplain Shallow Groundwater Temperature. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-20, 2014. (Poster)
- 109) Zeiger, S*, and **J.A. Hubbard**. 2014. Monitoring Stream Nutrient Concentration Trends in a Mixed-Land-Use Watershed. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 14-20, 2014. (Poster)
- 110) **Hubbard, J.A.***, T.E. Link, J. Gravelle, W.J. Elliott, and E. Du. 2014. Effects of Contemporary Harvest Practices on Water Yield and Snowpack Dynamics in the Continental-Maritime Region of the USA. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Oral).
- 111) **Hubbard, J.A.***, C. Zell, E. Kellner, and L. Hooper. 2014. Floodplain Forest Restoration: Rethinking Management Legacies for Flood Mitigation and Consumptive Water Use in Flood Prone Lands. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Oral).
- 112) Link, T*, J. Gravelle, **J.A. Hubbard**, D. Karwan, and E. Du. 2014. The Mica Creek Project: A Comprehensive Assessment of Environmental Effects of Contemporary Harvest Practices in the Interior Pacific Northwest, USA. 24th IUFRO World Congress, Salt Lake City, USA., October 5th – 11th 2014. (Poster).
- 113) Ghazanfarpour, N*, **J.A. Hubbard**, and C.J. Gantzer. 2014. Mapping Soil Erosion Risk in a Mountainous Catchment of Iran using a Field Indicator Method. 69th International Annual Conference of the Soil and Water Conservation Society. July 27-30, Lombard, Illinois, USA. (Poster)
- 114) McCann, L*, R. Broz., B. Allen, **J.A. Hubbard**, S. Anderson, and K. Shannon. 2014. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. 69th International Annual Conference of the Soil and Water Conservation Society. July 27-30, Lombard, Illinois, USA. (Poster)
- 115) Sunde, M.G*, H.S. He, **J.A. Hubbard**, and A. Spicci. 2014. Predicting Streamflow Response to Increased Imperviousness in an Urban Watershed using an Integrated Modeling Approach. Annual Convention of the Ecological Society of America (ESA), August 10-15, Sacramento, California, USA. (Oral)
- 116) Keane Tamara*, A. Ikem, J. Garth, **J.A. Hubbard**, and J. Barker. 2014. Improving the understanding of floodplain biogeochemical process in central U. S. urbanizing watershed. Lincoln University Student Research Symposium, Founders Hall, Jefferson City, Missouri. (Poster)
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- 119) Zeiger, S*., and **J.A. Hubbard**. 2014. Improving Understanding of Land-Use Impacts on Water and Air Temperature Relationships in a Multi-Use Watershed of the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Oral)
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- 123) Hooper, L*., **J.A. Hubbard**, P. Blanchard, J. Engeln, and D. Michaelson. 2014. Characterizing Physical Habitat of a Mixed Land-Use Stream in the Central U.S. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 5th – 7th. (Poster)
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- 125) McCann, L*., R. Broz., B. Allen, **J.A. Hubbard**, S. Anderson, and K. Shannon. 2013. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. 68th International Annual Conference of the Soil and Water Conservation Society. July 21-24, Reno, Nevada, USA. (Oral)
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- 133) Brown, K*., and **J.A. Hubbard**. 2013. Quantifying Bottomland Hardwood Forest and Agricultural Grassland Evapotranspiration in Floodplain Reaches of a mid Missouri Stream. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, Jan 30th – Feb 1st. (Poster)
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- 140) Link, T*., D. McGreer, **J.A. Hubbard**, D. Karwan, J. Gravelle, G. Ice, E. Du. 2012. The Mica Creek Project: An Assessment of Contemporary Harvest Practices. Society of American Foresters, 2012 National Convention, Oct 24 – 28, 2012. (Oral)
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- 144) Waterhouse, G*., D. Huang, and **J.A. Hubbard**. 2012. Comparing Streambank Vegetation Erosion Mitigation between Bottomland Hardwood Forest and Agricultural Floodplains. 48th Annual Meeting of the Missouri Academy of Sciences, University of Missouri, Columbia, MO, April 13-14, 2011. (Poster)
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- 166) Chinnasamy, Pl*., and **J.A. Hubbart**. 2011. Missouri Academy of Sciences. Influence of Groundwater on Stream Water Quality in a Mid Missouri Forested Riparian Wetland/Floodplain. 47th Annual Meeting of the Missouri Academy of Sciences, Lincoln University, Jefferson City, MO, April 15-16, 2011. (Poster)
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- 170) Freeman, G*., and **J.A. Hubbart**. 2011. Estimated Suspended Sediment Trends in a Multi-Use, Midwestern Watershed Using Laser Diffraction Instruments. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 2-4, 2011. (Poster)
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- 174) Smith, T.A*., and **J.A. Hubbart**. 2011. Low Impact Development: Teaching Old Communities New Tricks. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 2-4, 2011. (Poster)

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- 180) Freeman, G.W., **J.A. Hubbart***, P. Chinnasamy, E.A. Bulliner, J.H. Schulz. 2010. Laser Particle Diffraction: A Novel Approach to Quantify In-Situ Suspended Sediment Particle Size Class Concentrations. Annual Meeting of the American Geophysical Union (AGU) – San Francisco, CA, December 13-17, 2010. (Poster)
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- 183) Jones*, J.R., and **J.A. Hubbart**. 2010. Algal Biomass and Transparency in Missouri Reservoirs-Influence of Non-Algal Seston Measured by Mass Concentration and Laser-Scattering Detection of Particle Size Classes (Oral presentation). 31st Congress of the International Society of Limnology, Cape Town, South Africa, August 15–20, 2010. (Oral)
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- 193) Stephan, K*, and **J.A. Hubbart**. 2010. Effects of Long-Term Prescribed Burning on Soil Chemical Properties in the Missouri Ozarks. Annual Missouri Natural Resources Conference (MNRC) – Tan-Tar-A Resort, Lake of the Ozarks, MO, February 3–5, 2010. (Oral)
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- 201) Link*, T.E., J.A. Gravelle, **J.A. Hubbart**, D. Karwan, E. Du, and P.Z. Klos. 2009. Effectiveness Assessment of Best Management Practices in Forestry in the Inland Northwest. USDA-CSREES National Water Conference, St. Louis, MO, February 8-12, 2009. (Oral)
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- 204) Du*, E., T.E. Link, and **J.A. Hubbart**. 2007. Modeling Hydrologic Response to Land Cover Change in the Inland Pacific Northwest. AGU – San Francisco, CA, December 10-14, 2007. (Poster)
- 205) **Hubbart, J.A.***, and T.E. Link. 2007. Timber Harvest Impacts on Water Yield and Snowcover Dynamics in the Continental Maritime Region of the United States. The Society of American Foresters (SAF) National Convention, October 23-27, 2007. Portland, OR. (Oral)
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OUTREACH ACTIVITIES

- 1) **Hubbart, J.A.**, K. Gootman, J. Skousen, J. Dodson, R. Rodriguez, and L. Tinney. 2021. Institute of Water Security and Science, Drinking Water Testing Program Workshop. September 25, 2021. Marion County, Fairmont, WV
- 2) **Hubbart, J.A.**, K. Gootman, J. Skousen, J. Dodson, R. Rodriguez, and L. Tinney. 2021. Institute of Water Security and Science, Drinking Water Testing Program Workshop. October 30, 2021. Harrison County, Clarksburg, WV
- 3) **Hubbart, J.A.**, J.U. Toledo, N. Zegre, J. Smith, M. Strager, F. Aguilar-Rojano, R. Burns, R. Andrew, and K. Gootman. 2021. IWSS Spring Workshops: Advances in West Virginia Water Research. Workshop III: Modeling Water Resources: Modeling of Toxicity and Biological Impacts. June 2, 2021. Virtual
- 4) **Hubbart, J.A.**, D. Vesper, G. Hankins, L.S. Lin, D. Huber, Y. Halley-Schultz, H. Payne, and K. Gootman. 2021. IWSS Spring Workshops: Advances in West Virginia Water Research. Workshop II: Molecular to Watershed Scale Complexity of Water Resources. May 26, 2021. Virtual
- 5) **Hubbart, J.A.**, S. McBride, J.T. Petty, M. Fultz, M. Norton, P. Georgel, and K. Gootman. 2021. IWSS Spring Workshops: Advances in West Virginia Water Research. Workshop I: Sensors and Water Resources: Chemical, Physical, and Biological Water Quality Detection. May 19, 2021. Virtual
- 6) **Hubbart, J.A.**, K. Gootman, J. Skousen, J. Dodson, S. Hickman, and L. Tinney. 2021. Institute of Water Security and Science, Drinking Water Testing Program Workshop. Davis College of Agriculture, Natural Resources and Design, May 1, 2021. Monongalia County, Morgantown, WV.
- 7) **Hubbart, J.A.** 2020. WVU Institute of Water Security and Science (IWSS). A Virtual presentation and meeting with the Dean of the WVU Davis College of Agriculture, Natural Resources and Design (DCANRD). November 24, 2020.

- 8) **Hubbart, J.A.** 2020. WVU Institute of Water Security and Science (IWSS). A Virtual presentation and meeting with the Dean of the WVU Extension Service Dean Jorge Atilas. October 16, 2020.
- 9) Kutta, E.J., and J.A. Hubbart. 2019. Earth's Climate System and how it's changing. Science Public Outreach Team Spring Summit, March 23, 2019. West Virginia University, Eberly College, Morgantown, WV
- 10) Kutta, E.J., and J.A. Hubbart. 2019. Earth's Climate System and how it's changing. Science Public Outreach Team (SPOT) Training Weekend, March 22, 2019. Greenbank, WV
- 11) Kutta, E.J., and J.A. Hubbart. 2019. Agriculture in West Virginia: Implications for Climate Change. West Virginia Extension Service Dinner, March 6, 2019. Morgantown, WV
- 12) Kutta, E.J., and J.A. Hubbart. 2019. Agriculture in West Virginia: Implications for Climate Change. West Virginia Extension Service Dinner, March 5, 2019. Morgantown, WV
- 13) Kutta, E.J., and J.A. Hubbart. 2019. Agriculture in West Virginia: Implications for Climate Change. West Virginia Extension Service Dinner, March 4, 2019. Morgantown, WV
- 14) Hubbart, J. 2018. 2018. The status and future of natural resources (water), and future professionals. Richwood High School AP Environmental Science class visit to WVU. Morgantown, WV
- 15) Kutta, E.J., and J.A. Hubbart. 2018. Water: The Source of Life. Protecting our most valuable natural resource. Richwood High School AP Environmental Science class visit to WVU. Morgantown, WV
- 16) Kutta, E., and J.A. Hubbart. 2018. Water: The Source of Life. Protecting our most valuable natural resource. Science Public Outreach Team (SPOT) Training Weekend. Greenbank, WV.
- 17) Hubbart, J.A. 2018. Fundamentals of Nutrient Management, Environmental Management. WVU Extension Service Fundamentals of Nutrient Management course, Morgantown, WV.
- 18) Kellner, R.E., and J.A. Hubbart. 2018. The Long-Term Impacts of Forest Removal on Floodplain Subsurface Hydrology. WVU Division of Plant and Soil Science Seminar Series, Morgantown, WV.
- 19) Kellner, E., and J.A. Hubbart. 2018. Water: The Source of Life. West Virginia Watersheds Speaker Series at the Ohio County Public Library, Wheeling, WV.
- 20) Kutta, E., and J.A. Hubbart. 2018. Global Climate, Climate Variability and Modeling in the Anthropocene. WVU Department of Geography Colloquium, Morgantown, WV.
- 21) Hubbart, J.A., E. Kellner, and T. Petty. 2016. West Virginia University Contingent to the 2016 Big 12 Water Conference. Baylor University, Texas, September 25-26, 2016.
- 22) Meeting with Rainelle Concerned Citizens Group. Planning for Future Flooding in Greenbrier Valley, West Virginia. August 3rd, 2016.
- 23) Meeting at Oglebay Resort with Director and Staff. Water Management and Use Planning. August 1st, 2016.
- 24) Meeting with Lewisburg West Virginia Conservation Agency, in Lewisburg, WV. June 17, 2016.
- 25) Association of Public and Land-grant Universities (APLU) Water Industry Talent Development Summit. April 29th 2016, Milwaukee, Wisconsin.
- 26) Mizzou Central at the Mo State Fair. Booth Staffer at the Missouri State Fair, representing the College of Agriculture Food and Natural Resources and the University of Missouri, August 13th, 2013.
- 27) Student speed networking event "Exploring Different Professions in Water Resources". The Spring American Water Resources Association (AWRA) specialty conference in St. Louis, MO, Tuesday March 26th, 2013.
- 28) Exploring Different Professions in Water Resources (For Student Attendees). Meeting with students interested in water resources professions. The American Water Resources 2013 Spring Specialty Conference, Agriculture, Hydrology and Water Quality II. Tuesday, March 26th, 12:00-1:30pm.
- 29) MU Researchers Address Climate Issues. Feature on KOMU Channel 8 News, by Nick Thompson, January 9th, 2013.
- 30) University of Missouri Stormwater Mast Plan. Featured article: MU Researchers Study Stormwater Controls at Hinkson Bottoms. November 2012.

- 31) Mizzou Central at the Mo State Fair. Booth Staffer at the Missouri State Fair, representing the College of Agriculture Food and Natural Resources and the University of Missouri, August 16th, 2012.
- 32) Sustainable Agriculture Research & Education Project, “Sustainability of a Short-Rotation Woody Biofuel System Compared to Grass Biofuel and Grain Cropping Systems’ Advisory Board meeting, March 27, 2012.
- 33) KFRU Radio talk show with David Lile. Talk show discussing local water issues, the Anatomy of a Stream video, and Hinkson Creek water quality issues. Oct 20, 2011.
- 34) Anatomy of a Stream. Invited guest interviewee for a video produced by the City of Columbia discussing streamflow, riparian areas, riparian forests, riparian management and water quality. Web Link: http://gocolumbiamo.granicus.com/MediaPlayer.php?view_id=3&clip_id=506. Oct 10, 2011.
- 35) School of Natural Resources Advisory Council committee meeting. Tour of Hinkson Creek Study site #4 and the Floodplain Study site. Discussion of related undergraduate and graduate student studies and educational experience opportunities.
- 36) Faculty Are People Too. September 15th, 2011. Meeting for Fall Semester School of Natural Resources undergraduate orientations.
- 37) MU Pollution Studies Could Benefit Waterways Across the Nation. Feature in the Chancellor Brady Deaton’s annual presentation to the MU Board of Curators. March 11, 2011.
- 38) Introduction to Stream gauging, Monday, January 24, 2011. Co-presentation with Mr. Terry Colgan, Sutron Corporation. MU School of Natural Resources, Department of Forestry Seminar.
- 39) Lincoln University Research Outreach. August 20, 2010. Current Research in the Hinkson Creek Watershed Conducted by the Interdisciplinary Hydrology Laboratory. A presentation to Lincoln University researchers to invite collaborative research.
- 40) Missouri River Relief, Missouri River cleanup event, September 19, 2009. Missouri River Relief, P.O. Box 463, Columbia, MO 65205. Participant in half-day trash pick-up.
- 41) Forestry and Humans: Connecting the Dots, A Biophysical Connection. October 5, 2007. A presentation to the Student Success Center, Arts & Science and Business Advisors Committee of the University of Missouri.
- 42) Impact of Forest Management on the Water Cycle. Summer 2006. A presentation at the meeting of the Pacific Northwest Regional Water Program. A partnership of USDA CSREES & Land Grant Colleges and Universities.
- 43) North Idaho, New Mexico, Mica Creek Experimental Watershed Tour. Oral presentation of research findings to date, and future studies/directions – Mica Creek, Idaho, June 29, 2006.
- 44) Investigating cumulative effects of timber harvest at Mica Creek Experimental Watershed, a multidisciplinary approach. July 7, 2005. On site presentation of current studies to the Association of Natural Resource Professionals (ANREP), Mica Creek Experimental Watershed.

POPULAR PRESS

- 1) 17% of people live near toxic release facilities; how breaks down in West Virginia. By Stacker, 12WBOY. January 7, 2022. <https://www.wboy.com/news/west-virginia/17-of-people-live-near-toxic-release-facilities-how-breaks-down-in-west-virginia/>
- 2) Columbia nature activist argues for justification defense in trail protest charge. By Lucas Geisler, December 3rd, 2021, ABC News, Columbia, Missouri, KMIZ (channel 17), USA.
- 3) Waves of the Future: Reflecting on five years of West Virginia’s federally-funded NSF EPSCoR RII-Track 1 project. By: Neuron. 11/03/2021. https://westvirginiaresearch.org/wp-content/uploads/2021/10/Neuron_Summer2021.pdf
- 4) Clarksburg residents attend Drinking Water Testing Program to learn about drinking water safety. By: WDTV. 10/30/2021. <https://www.wdtv.com/2021/10/30/clarksburg-residents-attend-drinking-water-testing-program-learn-about-drinking-water-safety/>

- 5) Free public drinking water testing in Clarksburg. By: WBOY. 10/30/2021.
<https://www.wboy.com/news/harrison/free-public-drinking-water-testing-in-clarksburg/>
- 6) WVU workshop aims to educate West Virginians about drinking water testing. By: WVU Today. 10/28/21. <https://wvutoday.wvu.edu/media-center-blog/2021/10/28/media-advisory-wvu-workshop-aims-to-educate-west-virginians-about-drinking-water-testing>
- 7) WVU water testing workshop to be held on Oct. 30. By: Opera News. 10/17/2021.
<https://www.dailyadvent.com/news/amp/39614086d156cd9139f5e9e1f6b79b7f-WVU-water-testing-workshop-to-be-held-on-Oct-30>
- 8) WVU water testing workshop to be held on Oct. 30. By: WBOY. 10/16/2021.
<https://www.wboy.com/news/monongalia/wvu-water-testing-workshop-to-be-held-on-oct-30/>
- 9) Registration open for free drinking water testing workshop. By: Mountaineer E-News. 10/13/2021.
<https://enews.wvu.edu/articles/2021/10/13/registration-open-for-free-drinking-water-testing-workshop>
- 10) Learn About Drinking Water Testing at WVU Workshop. By: Shinnston News & Harrison County Journal. 10/12/2021. <https://shinnstonnews.com/learn-about-drinking-water-testing-at-wvu-workshop/>
- 11) WVU Workshop Aims to Educate Community About Drinking Water Testing. By: Connect Bridgeport. 10/09/2021. <https://www.connect-bridgeport.com/connect.cfm?func=view§ion=News&item=WVU-Workshop-Aims-to-Educate-Community-About-Drinking-Water-Testing44891>
- 12) WVU to offer safe drinking water workshop in Clarksburg. By: WBOY. 10/05/2021.
<https://www.wdtv.com/2021/10/05/wvo-offer-safe-drinking-water-workshop-clarksburg/>
- 13) West Virginia University (WVU) workshop in Clarksburg aims to educate community about drinking water testing. By: The Exponent Telegram. 10/04/2021.
https://www.wvnews.com/morgantownnews/news/west-virginia-university-wvu-workshop-in-clarksburg-aims-to-educate-community-about-drinking-water-testing/article_d4ad924a-25f6-11ec-b100-a362eff2354b.html
- 14) Free drinking water testing program in Fairmont. By: WBOY. 09/23/2021.
https://www.wboy.com/news/marion/free-drinking-water-testing-program-in-fairmont/?utm_source=t.co&utm_campaign=socialflow&utm_medium=referral
- 15) WVU workshop aims to educate West Virginians about drinking water testing. By: WVU Today. 09/23/2021. <https://wvutoday.wvu.edu/media-center-blog/2021/09/23/media-advisory-wvu-workshop-aims-to-educate-west-virginians-about-drinking-water-testing>
- 16) Registration open for free water testing workshop. By: Mountaineer ENews. 09/07/2021.
https://enews.wvu.edu/articles/2021/09/07/registration-open-for-free-water-testing-workshop?utm_source=MOUNTAINEER+ENEWS&utm_campaign=a57ebecd57-RSS_EMAIL_CAMPAIGN&utm_medium=email&utm_term=0_02ac3f7274-a57ebecd57-136440205
- 17) Drinking water testing program workshop set in Marion County, West Virginia. BY: WVNews. 09/01/2021. https://www.wvnews.com/fairmontnews/news/drinking-water-testing-program-workshop-set-in-marion-county-west-virginia/article_14ac618c-0b3a-11ec-84e7-cf56b4c2c4b3.html
- 18) WVU Extension is offering a free water-testing workshop. By: Times West Virginian. 09/01/2021.
https://www.timeswv.com/news/local_news/wvu-extension-is-offering-a-free-water-testing-workshop/article_b8425076-0a96-11ec-914c-577c5bfcf9aa.html
- 19) WVU Freshman Embraces Summer Research Opportunity. By: U.S. News & World Report. 08/29/2021. <https://www.usnews.com/news/best-states/connecticut/articles/2021-08-29/wvu-freshman-embraces-summer-research-opportunity>
- 20) West Virginia University freshman from Bridgeport embraces summer research opportunity. By: The Exponent Telegram. 08/24/21.

- https://www.wvnews.com/theet/news/west-virginia-university-freshman-from-bridgeport-embraces-summer-research-opportunity/article_5f735eea-ee3a-11eb-95d8-1b0cad570ee9.html
- 21) In-coming WVU students get deep dive into science, more. By: Times-West Virginian. 07/26/21.
https://www.timeswv.com/news/monday_news/in-coming-wvu-students-get-deep-dive-into-science-more/article_ea9a9f28-edaa-11eb-803f-a72e74ef3a9a.html
 - 22) Summer Immersion Experience Opening STEM doors at WVU for incoming first-generation, underrepresented students. By: Dominion Post. 07/25/21.
<https://www.dominionpost.com/2021/07/25/summer-immersion-experience/>
 - 23) Summer Immersion Experience opening STEM doors at WVU for incoming first-generation, underrepresented students. By: WVUToday. 07/21/21.
<https://wvutoday.wvu.edu/stories/2021/07/21/summer-immersion-experience-opening-stem-doors-at-wvu-for-incoming-first-generation-underrepresented-students>
 - 24) Environmental Leaders: Spotlight on Jason Hubbard. By: Garden & Health. 07/06/2021.
<https://garden-and-health.com/environmental-leaders-spotlight-on-jason-hubbart/>
 - 25) Infrastructure plan presents opportunity to turn the faucet on for enhancing water quality, access. By: WVUToday. 06/01/21.
<https://wvutoday.wvu.edu/media-center-blog/2021/06/01/expert-pitch-infrastructure-plan-presents-opportunity-to-turn-the-faucet-on-for-enhancing-water-quality-access>
 - 26) Infrastructure plan presents opportunity to turn the faucet on for enhancing water quality, access. By: NewsWise. 06/01/21.
https://www.newswise.com/politics/infrastructure-plan-presents-opportunity-to-turn-the-faucet-on-for-enhancing-water-quality-access/?article_id=752175&ta=home
 - 27) 'I've found three-legged frogs out there', Researcher concerned over flooding, AMD in West Run Watershed. By: The Dominion Post. 05/23/21.
<https://www.dominionpost.com/2021/05/23/ive-found-three-legged-frogs-out-there/>
 - 28) 'I've found three-legged frogs out there'. By: yahoo!news. 05/23/2021.
<https://news.yahoo.com/ive-found-three-legged-frogs-111600850.html>
 - 29) Virtual seminar to discuss stream-groundwater connections and water quality. By: Mountaineer ENews. 2/5/21. https://enews.wvu.edu/articles/2021/02/05/virtual-seminar-to-discuss-stream-groundwater-connections-and-water-quality?utm_source=MOUNTAINEER+ENEWS&utm_campaign=fdfb6a21d3-RSS_EMAIL_CAMPAIGN&utm_medium=email&utm_term=0_02ac3f7274-fdfb6a21d3-145219173
 - 30) West Virginia University receives grant to pilot drinking water testing program. By: WaterWorld. 2/3/21. <https://www.waterworld.com/drinking-water/treatment/press-release/14196763/west-virginia-university-receives-grant-to-pilot-drinking-water-testing-program>
 - 31) WVU team to pilot drinking water testing program. By: Dominion Post. 1/23/21.
<https://www.dominionpost.com/2021/01/23/wvu-team-to-pilot-drinking-water-testing-program/>
 - 32) WVU program tests drinking water. By: The Hampshire Review. 1/20/21.
https://www.hampshirereview.com/living/health/article_7fc603b8-5b24-11eb-bdbb-d3f3596cb033.html
 - 33) WVU receives \$150,000 grant for drinking water testing program. By: Daily Athenaeum. 1/20/21.
https://www.thedaonline.com/news/university/wvu-receives-150-000-grant-for-drinking-water-testing-program/article_9d7c1a36-5b6b-11eb-b5c8-6f75b4dd9cff.html
 - 34) Spring Seminar Series Highlights Findings from Watersheds around the Country. By: Cedar Valley Daily Times. 1/18/21. http://www.communitynewspapergroup.com/spring-seminar-series-highlights-findings-from-watersheds-around-the-country/article_4c68a70b-81d4-5863-b305-d843957b9937.html
 - 35) West Virginia University researchers receive \$150,000 grant to study drinking water quality in Mountain State. By: Chesapeake Bay News (link to WV News). 1/14/21.

- https://www.wvnews.com/news/wvnews/west-virginia-university-researchers-receive-150-000-grant-to-study-drinking-water-quality-in-mountain/article_7c625af0-55c5-596a-b568-227a007ff7e1.html
- 36) West Virginia University researchers receive \$150,000 grant to study drinking water quality in Mountain State. By: WV News. https://www.wvnews.com/news/wvnews/west-virginia-university-researchers-receive-150-000-grant-to-study-drinking-water-quality-in-mountain/article_7c625af0-55c5-596a-b568-227a007ff7e1.html
- 37) WVU receives grant to pilot drinking water testing program. By: WVU Today. 1/13/21. <https://wvutoday.wvu.edu/stories/2021/01/13/wvu-receives-grant-to-pilot-drinking-water-testing-program>
- 38) WVU receives grant to test drinking water in W.Va. By: 5WDTV West Virginia. 1/13/21. <https://www.wdtv.com/2021/01/13/wvu-receives-grant-to-test-drinking-water-in-wva/>
- 39) WVU receives grant to pilot drinking water testing program. By: News Break. 1/13/21. <https://www.newsbreak.com/news/2143888675671/wvu-receives-grant-to-pilot-drinking-water-testing-program>
- 40) Institute of Water Security and Science to host seminar on water quality, watershed management, Mountaineer E-News. September 23, 2020. https://enews.wvu.edu/articles/2020/09/23/institute-of-water-security-and-science-to-host-seminar-on-water-quality-watershed-management?utm_source=MOUNTAINEER+ENEWS&utm_campaign=317a3bb558-RSS_EMAIL_CAMPAIGN&utm_medium=email&utm_term=0_02ac3f7274-317a3bb558-136440205
- 41) WVU researchers leading \$10 million sustainable biomass to value-added bioproducts project, XEED Sustainability Labs. August 2, 2020. <https://www.xeedsustainabilitylabs.org/wvu-researchers-leading-10-million-sustainable-biomass-to-value-added-bioproducts-project-sciencemag-latest-science-and-health-news/>
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- 44) WVU researchers leading \$10M sustainable biomass to value-added bioproducts project, WV News. July 9, 2020. https://www.wvnews.com/news/wvnews/wvu-researchers-leading-10m-sustainable-biomass-to-value-added-bioproducts-project/article_d020598f-8e98-548c-8a86-391e8e241a19.html
- 45) WVU researchers leading \$10 million sustainable biomass to value-added bioproducts project, WVU Today. July 9, 2020. <https://wvutoday.wvu.edu/stories/2020/07/09/wvu-researchers-leading-10-million-sustainable-biomass-to-value-added-bioproducts-project>
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- 176) Reforestation Seen as Solution for Hinkson Creek. The Columbia Missourian. December 18, 2012. Written by Gwendolyn Girsdanský.
- 177) Letter to the Editor: Response to article by Kristen Powers (April 3, 2012). The University of Missouri. The Maneater, April 10, 2012.

- 178) Calming the Storm (water): Are willows key to restoring flood plains damaged by runoff?. CAFNRnews article, April 9, 2012.
- 179) Restoring Flood Plains, Creating Cash Crop, Growing Biomass are Goals of New MU Study. University of Missouri News Bureau, April 9, 2012. Story by Christian Basi.
- 180) MU Researchers Plant Willow Trees in a Floodplain Management Study. The Columbia Missourian, March 22, 2012. Written by Ratko Radojcic.
- 181) MU Tree Project Might Help Hinkson. Columbia Daily Tribune, March 22, 2012. Written by Janese Silvey.
- 182) MU Researchers to Plant 777 Trees to Begin Study on Storm Water Management: University of Missouri: Media Advisory: MU News Bureau, March 19, 2012, Christian Basi.
- 183) Sierra Club critics slow Hinkson Creek Action. Columbia Daily Tribune, January 31, 2012. Written by Andrew Denney.
- 184) Feature faculty in the September 2011 Forestry Alumni Newsletter. Department of Forestry, University of Missouri, Fall 2011.
- 185) Research on Hinkson Creek Pollution Ongoing. Columbia Daily Tribune, April 26 2011. Written by Jodie Jackson, Jr.
- 186) EPA-ordered Hinkson cleanup off to slow start, Time keeps ticking. Columbia Business Times, April 1, 2011, Columbia, Missouri.
- 187) Stream Measures. In Planning: The monthly publication of the American Planning Association. March 2011, Pp 30-31.
- 188) ABC 17 News This Week with Ryan Tate. MU researcher (Jason Hubbard, Ph.D.) reports on ongoing studies in the watershed and relationship to recent TMDL. Sunday, Channel 17 ABC News, February 27th, 2011.
- 189) TMDL's: Improving Stakeholder Acceptance with Science-Based Allocations. Reprinted with permission, in February 2011, Missouri chapter of the American Public Works Association, monthly newsletter, Pp, 4-8.
- 190) MU (University of Missouri) Researchers Test Water Quality in Hinkson Creek. February 17th, 2011. Under the Microscope: National Public Radio (NPR).
- 191) TMDLs: Improving Stakeholder Acceptance with Science-Based Allocations. Missouri Chapter of the American Public Works Association, February 2011.
- 192) Cleaning up Hinkson Creek. February 7th, 2011. National Public Radio (NPR).
- 193) The Columbia Missourian. July 2, 2010. Locally Grown: Managing Stormwater Important for Individuals in the City of Columbia. Article by Michael Burden.
- 194) National Public Radio (NPR), March 26, 2010. Interview pertaining to watershed project in the Hinkson Creek Watershed.
- 195) The Columbia Missourian. September 10, 2009. Quantifying Creek's Quality. Article by Brenden Neville pertaining to water quality research in Hinkson Creek and the City of Columbia.
- 196) Green Horizons Newsletter. October 2009. It's All Connected. Article showcasing Interdisciplinary Hydrology Laboratory Research. Article author, Michelle Hall, MU Center for Agroforestry, 13(4).
- 197) The Forestry Source. July 2009. Missouri Develops BMPs for Biomass Harvesting. Article discussing role of J.A. Hubbard in MO BMP recommendations. Published by the Society of American Foresters.
- 198) MDC Stream Newsletter. Summer 2009. New Research Program in Hinkson Creek Watershed. J.H. Schulz and J.A. Hubbard.
- 199) EPA Awards \$1.7 Million to Improve Midwestern Wetlands. December 4, 2008. Article announcing Federal grant award to J.A. Hubbard. NBC News Washington, Kansas City, Kansas.
- 200) MU researcher receives \$399,995 EPA wetlands grant. December 9, 2008. College of Agriculture, Food and Natural Resources. Research Article by Curt Wohleber, UM.

- 201) Mica Creek, Idaho. The Trust for Public Land, Conserving Land for People (www.tpl.org). Spring 2006 edition. Land and People 18(1):16.
- 202) Mica Creek measures up: "UI was awarded \$13.5 million in grants to expand research in the forests of northern Idaho." Moscow-Pullman Daily News, July 24, 2004.
- 203) Clear-cut cooperation: "Potlatch teams with university scientists for study near Santa; data should help both better understand effects of timber harvest." Moscow-Pullman Daily News, July 24, 2004.

GRANTS PENDING

- 1) *PENDING*: Fultz, J.W. (PI), S.G. Straight (Co-PI), J.A. Hubbard (WVU Lead), M. Norton (MU Lead), S. Silva (GSC Lead), and K. Lantz (FSU Lead). REU Site: West Virginia Student Water Research Initiative. NSF Research Experiences for Undergraduates (REU). \$521,024.
- 2) *PENDING*: Hubbard, J.A. (PI). Measuring and Modeling Microplastics in the Potomac River Corridor of the Chesapeake Bay Watershed. USDA-NIFA Water Quantity and Quality (A1411) program area of Bioenergy, Natural Resources, and Environment, Section B. \$749,898.
- 3) *PENDING*: Hubbard, J.A. (PI) and E. Garner (Co-PI). Advancing Understanding of Naturalized Escherichia coli Contributions to Water Quality. USDA-NIFA Water Quantity and Quality (A1411) program area of Bioenergy, Natural Resources, and Environment. \$744,081.
- 4) *PENDING*: Hubbard, J.A. (PI). A Drinking Water Testing and Public Awareness Program Through Community Outreach. USDA-NIFA AFRI Foundational and Applied Science Program. \$299,999.
- 5) *PENDING*: Hubbard, J.A. (PI). Developing a Drinking Water Testing and Public Awareness Program through Community Engagement. USDA-NIFA AFRI Education Workforce Development. \$165,000.
- 6) *PENDING*: Hubbard, J.A. (Co-I). REU Site: Student Water Research Initiative. National Science Foundation, REU. \$486,009.

GRANTS FUNDED (Total: \$46,127,034)

- 1) 9/2021 – 9/14/2024: Thompson, J. (PI), and **J.A. Hubbard** (Co-PI). Dynamic Soil Survey of an Urbanizing Mixed-Land-use Watershed. Natural Resources Conservation Service (NRCS), Soil and Plant Science Division (SPSD). NRCS \$249,192 (JH Credit – 50%).
- 2) 9/2021: Gutensohn et al., J.A. Hubbard (Co-PI). Acquisition of a Gas Chromatograph/Mass Spectrometer with Front-End Gerstel Line for Automated Sample Preparation/Introduction and Increased Sensitivity. National Science Foundation, Major Research Instrumentation Grant. \$320,152.
- 3) 7/2021 – 6/2022: Wilson, M.E. (PI), B.J. Meade (Co-PI), L.M. Livengood (Co-PI), R.C. Burns (Co-PI), and J.A. Hubbard (Collaborator, \$13,590.75). Support for the Hearts of Gold Service Dog Training Program to Train Service Dogs for Veterans. Uniformed Services University of the Health Sciences, Grant/Contract No.: HU00012110029, \$363,136.50 (JH Credit – 5%).
- 4) 12/2020 – 12/2023: **Hubbard, J.A.** (PI). A Drinking Water Testing and Education Program through Community Outreach. Equitrans Midstream Foundation. A gift through the WVU nonprofit Foundation that receives and administers private donations on behalf of WVU. \$150,000 (JH Credit – 100%)
- 5) 7/2020 – 6/2025: Wang, J. (PI), J. Schuler (Co-PI), J. Hu. (Co-PI), S. Grushecky (Co-PI), **J.A. Hubbard** (Co-I, \$414,194), *et. al.* Mid-Atlantic Sustainable Biomass for Value-added Products Consortium (MASBio). USDA-National Institute of Food and Agriculture, AFRI Sustainable Agricultural Systems, Grant/Contract No.: 2020-68012-31881, \$10,000,000 (JH Credit – 4%)
- 6) 7/1/2020 – 6/30/2021: Wilson, M.E. (PI), Burns, R., B.J. Mead, L. Parenti, **J.A. Hubbard** (Collaborator, \$18,194). Support for the Hearts of Gold Service Dog Training Program to Train Service Dogs for Veterans. Uniformed Services University of the Health Sciences, Grant/Contract No.: HU00012010029, \$364,287 (JH Credit – 5%).

- 7) 4/1/2020 – 3/31/2025: **Hubbart, J.A.** (PI, \$113,041), Anderson, J., (Co-PI, \$130,741), and Kinder (Co-PI, \$56,218). Davis College Reedsville Restoration Research Plan (\$300,000). WV Conservation Agency. (JH Credit – 33%)
- 8) 6/1/2020 – 5/31/2021: Oporto, G. (PI), R. Gupta (Co-PI), **J.A. Hubbart** (Collaborator, \$6,000). RAPID: Prototype of a Medical Mask Using a Novel Antimicrobial / Antiviral Biofilter Material. US National Science Foundation - Engineering, Grant/Contract No.: CBET-2031637, \$198,499 (JH Credit – 5%).
- 9) 4/1/2020 – 3/31/2024: Freshour, A., L. Jones., X. Etienne. **J.A. Hubbart** (Collaborator, \$27,300). Establishing a Summer Internship Program to Enhance Undergraduate Knowledge and Skills on Food Microbial Safety through Research and Extension Activities. USDA-National Institute of Food and Agriculture, Grant/Contract No.: 2020-68018-30657, \$398,997 (JH Credit – 7%)
- 10) 1/2020 – 12/2023: Shen, C. (PI), X. Etienne (Co-PI), L.M. Lagana Jones (Co-PI), A. Puglisi Freshour (Co-PI), **J.A. Hubbart** (Collaborator, \$39,899). Establishing a Summer Internship Program to Enhance Undergraduate Practical Knowledge and Skills of Food Microbial Safety through Research and Extension Activities. USDA-National Institute of Food and Agriculture, AFRI Education and Workforce Development Program, Grant/Contract No.: TBD, \$398,997 (JH Credit – 10%)
- 11) 9/2019 – 8/2023: Elbakidze, L. (PI), **J.A. Hubbart** (Co-PI), M.P. Strager (Co-PI), X. Etienne (Co-PI). Modeling Interdependent FEW Systems in the US and China: Nexus for Sustainability, Markets and Trade of Energy and Agricultural Commodities. NSF/NSFC Joint Research on Environmental Sustainability Challenges, Grant/Contract No.: CBET-1903543, \$494,888. (JH Credit – 25%)
- 12) 9/2019 – 9/2022: Strager, M.P. (PI), P.J. Kinder (Co-PI), S.T. Grushecky (Co-PI), **J.A. Hubbart** (Collaborator). Unmanned Aerial Systems for Pipeline Inspection, Monitoring, and Landscape Analysis. US Department of Transportation, Pipeline Safety Research Competitive Academic Agreement Program, Grant/Contract No.: PH956-19-0144, \$206,920 (JH Credit – 10%)
- 13) 9/2019 – 8/2021: McDonald, L.M. (PI), G.B. Stewart (Co-PI), J.S. Carver (Co-PI), **J.A. Hubbart** (Collaborator). GP-IMPACT: Improving Geoscience Education for Rural and First-Generation College Student through a Shared-Instruments Collaboration – Bridging the High School to Undergraduate Divide for Students in Reclamation Science and Management. NSF – Improving Undergraduate STEM Education: Pathways into Geoscience, Grant/Contract No.: ICER-1911347, \$306,036. (JH Credit – 10%)
- 14) 8/2019 – 7/2020: Wilson, M.E. (PI), B.J. Meade (Co-PI), L.M. Parenti (Co-PI), R.C. Burns (Co-PI), **J.A. Hubbart** (Collaborator). Support for the Hearts of Gold Service Dog Training Program to Train Service Dogs for Veterans. Uniformed Services University, Wounded Warrior Service Dog Program, Grant/Contract No.: HU0001910014, \$317,524 (JH Credit – 10%)
- 15) 6/2019 – 5/2021: Shen, C. (PI), L.M. Lagana Jones (Co-PI), X. Etienne (Co-PI), **J.A. Hubbart** (Collaborator). Improving the Microbial Safety and Quality of Locally Grown Produce in West Virginia by Adopting a Three-Step Wash Process with Antimicrobials Through Research and Extension. USDA-National Institute of Food and Agriculture, AFRI Foundational Program, Grant/Contract No.: 2019-68008-29828, \$195,730. (JH Credit – 10%)
- 16) 10/2018 – 9/2022: Anderson, J. (PI), **J.A. Hubbart (Co-PI)**, M. Strager (Co-PI), E. Kellner (Co-PI). Development of Wetland Water Quality Standards for West Virginia. United States Environmental Protection Agency, Wetland Program Development Grant, Project Number: EPA-R3-WPDG-18-19, \$881,009.00. (Shared Credit – 25%)
- 17) 9/2018 – 8/2020: Govindan, M. (PI), L.M. Lagana Jones (Co-PI), D. Singh-Knights (Co-PI), G. Wood (Co-PI), E. Southern (Co-PI), C. Martel (Co-PI), **J.A. Hubbart** (Collaborator). The CHIP Project: Developing and implementing food safety education and outreach for Commercial-Kitchens, Home-Kitchens, Incubator-Kitchens and Food Producers in West Virginia. USDA-National Institute of Food and Agriculture, Food Safety Outreach Competitive Grants Program, Grant/Contract No.: 2018-70020-28872, \$148,462. (JH Credit – 10%)

- 18) 9/2018 – 8/2021: Neeman, H. (PI), A. McGovern (Co-PI), H. Severini (Co-PI), L. Bartley (Co-PI), K. Dresback (Co-PI), **J.A. Hubbard** (Collaborator, West Virginia University), and others. National Science Foundation (NSF) Office of Advanced Cyberinfrastructure (OAC), \$967,755.00 (Shared Credit: 1%).
- 19) 9/2018 – 9/2019: Wilson, M.E. (PI), B.J. Meade (Co-PI), L.M. Parenti (Co-PI), R.C. Burns (Co-PI), **J.A. Hubbard** (Collaborator). Support for the Hearts of Gold Service Dog Training Program to Train Service Dogs for Veterans. Uniformed Services University, Wounded Warrior Service Dog Program, Grant/Contract No.: HU00011810060, \$280,751. (JH Credit – 10%)
- 20) 1/2018 – 8/2022: Kinder, P (PI), **J.A. Hubbard**, M. Wilson. NRAC 437 – Davis College Cooperative Agreement, Natural Resources Conservation Service, \$1,022,727.00 (shared credit 20%), sub-award \$208,560.00 (100% Credit).
- 21) 3/2018: **J.A. Hubbard** (PI). Dan and Betsy Brown Speaker fund (WVU Internal), \$3,500 (Shared Credit: 100%).
- 22) 11/2017 – 11/2022: Skousen, J. (PI), L. McDonald, **J.A. Hubbard**. Liming as a Practice for Forest Management and Soil Quality Improvement. USDA – Forest Service, \$177,986.50 (Shared Credit: 33%)
- 23) 10/2017 – 10/2022: Karraker, K. (PI), **J.A. Hubbard**, S. Spolaor, A. Berrebi, G. Stewart, S. Hodder, X. Liu. Increasing the Number, Quality, and Diversity of STEM Doctoral Students at WVU. West Virginia Higher Education Program Commission, \$1,152,000 (Shared Credit: 5%)
- 24) 10/2017 – 10/2022: **Hubbard, J.A.** Natural Resources Conservation Service. To support NRCS by Providing Expert Scientific and Technical Advice Related to Reducing Non-Point Source Loading of Nutrients and Sediment to the Waters of the Chesapeake Bay Watershed, \$750,000 (Shared Credit: 100%).
- 25) 8/2018 – 7/2019: **Hubbard, J.A.** Sub-Award in: Gravitational Wave Astronomy and the Appalachian Freshwater Initiative (Waves of the Future: Capacity Building for the Rising Tide of STEM in West Virginia (EPSCoR). National Science Foundation, EPSCoR \$209,554 (Shared Credit: 100%)
- 26) 8/2017 – 7/2018: **Hubbard, J.A.** Sub-Award in: Gravitational Wave Astronomy and the Appalachian Freshwater Initiative (Waves of the Future: Capacity Building for the Rising Tide of STEM in West Virginia (EPSCoR). National Science Foundation, EPSCoR \$174,882 (Shared Credit: 100%)
- 27) 11/2016 – 11/2017: **Hubbard, J.A.** The Dunn Foundation. \$3000.00 (Shared Credit: 100%)
- 28) 08/2016 – 09/2020: **Hubbard, J.A.** Technical Director: Appalachian Freshwater Initiative (AFI). Sub-Award in: Gravitational Wave Astronomy and the Appalachian Freshwater Initiative (Waves of the Future: Capacity Building for the Rising Tide of STEM in West Virginia (EPSCoR). National Science Foundation, EPSCoR grant, \$20 Million. AFI Sub-Award \$10.2 Million.
- 29) 09/2015: **Hubbard, J.A.** Investigating Environmental Flows of Mixed-Land-Use Watersheds in Missouri. A Collaborative Adaptive Management Project Funded by the University of Missouri, City of Columbia, and Boone County \$200,000.00 (Shared Credit – 100%).
- 30) 05/2015: Hubbard, J.A. National Atmospheric Deposition Program. United States Geological Survey. \$39,938 (Shared Credit – 100%).
- 31) 03/2015: **Hubbard, J.A.** The Missouri Ozark Ameriflux Project. UT-Battelle, Oak Ridge National Laboratory and the U.S. Department of Energy. Annual Subcontract Modification 19, \$113,373 (Shared Credit – 100%)
- 32) 09/2014: **Hubbard, J.A.** Understanding Precipitation Heterogeneity in Mixed-Land-Use Watersheds. *Sub-Award in:* The Missouri Transect: Climate, Plants, and Community. National Science Foundation, EPSCoR grant, \$20 Million. \$317,371.00 (Shared Credit – 100%).
- 33) 07/2014: **Hubbard, J.A.** University of Missouri Stormwater Quality Monitoring Program. Funded by the University of Missouri Campus Facilities, \$26,000.00. (Shared Credit – 100%).
- 34) 06/2014: **Hubbard, J.A.** Combined Flow and Suspended Sediment analyses in Hinkson Creek, Central Missouri, USA. A Collaborative Adaptive Management project, funded by Boone County, the City of Columbia, and the University of Missouri, \$280,358.00 (Shared Credit – 100%).

- 35) 06/2014: **Hubbart, J.A.** The Missouri Ozark Ameriflux Project. UT-Battelle, Oak Ridge National Laboratory and the U.S. Department of Energy. \$160,000 (Shared Credit – 100%)
- 36) 04/2014: **Hubbart, J.A.**, and J. Burken. University of Missouri Academic Affairs, Inter-Campus Course Sharing Grant, \$8000.00. (Shared Credit – 50%)
- 37) 04/2014: **Hubbart, J.A.** College of Agriculture, Food and Natural Resources, CAFNR International Programs International Travel Grant, \$3000.00. (Shared Credit – 100%).
- 38) 03/2014: **Hubbart, J.A.** University of Missouri, Student Fee Capital Improvement Grant: A Utility Task Vehicle for the Baskett Wildlife Recreation and Education Center, \$20,000.00. (Shared Credit – 100%).
- 39) 02/2014: **Hubbart, J.A.** International Research and Teaching Travel Grant. MU School of Natural Resources, Department of Forestry Research Incentive Funding, \$2500.00. (Shared Credit – 100%).
- 40) 01/2014: **Hubbart, J.A.** National Atmospheric Deposition Program (NADP) grant update for monitoring of collection station number M005 and M003, \$7989.00. (Shared Credit – 100%).
- 41) 01/2014: **Hubbart, J.A.** Enhancing Water Security with an MU Interdisciplinary Water Resources Network: The CAFNR Center for Watershed Management and Water Quality. Mizzou Advantage Faculty Development Award, \$1500.00. (Shared Credit – 100%).
- 42) 03/2013: **Hubbart, J.A.** Increase in Water Quality through the Study of Longitudinal Variations in Physical Habitat. A Collaborative Adaptive Management project, funded by Boone County, the City of Columbia, and the University of Missouri, \$66,000. (Shared Credit – 100%).
- 43) 02/2013: **Hubbart, J.A.** University of Missouri Stormwater Quality Monitoring Program. Funded by the University of Missouri Campus Facilities, \$65,604.80. (Shared Credit – 100%).
- 44) 10/2012: McCann, L., B. Broz, B. Allen, **J.A. Hubbart**, S. Anderson, and K. Shannon. Factors Affecting Adoption of Nutrient Management Practices by Farmers and Homeowners. National Integrated Water Quality Program, National Institute of Food and Agriculture (NIFA) Grant, \$414,000. (Shared Credit – 17%).
- 45) 06/2012: Fox, N., **J.A. Hubbart**, A. Thompson, and M. Urban. Linkages Between Rainfall, Runoff and Sediment Transport. Mizzou Advantage Undergraduate Research Team, \$3690. (Shared Credit – 25%).
- 46) 06/2012: Ikem, A., and **J.A. Hubbart**. Groundwater Flux of Nitrogen, Phosphorus and Organic Carbon Concentrations in a Hinkson Creek Floodplain: Geochemistry of Forest and Agricultural Microcosms. United States Department of Agriculture, National Institute of Food and Agriculture, Evans-Allen, \$316,500. (Shared Credit – 50%)
- 47) 04/2012: Stephan, K, and **J.A. Hubbart**. Improving Quantitative Understanding of Urban Forest Carbon Sequestration and Climate Mitigation. USDA, National Institute of Food and Agriculture, McIntire-Stennis. \$140,000 (Shared Credit – 50%)
- 48) 08/2011: He, H., **J.A. Hubbart**, and J. Schulz. A Coupled Predictive Model to Characterize Effects of Urban Sprawl on Water Regimes and Diffuse Pollution in Multi-Use Urban Watersheds, Missouri Department of Conservation, \$103,262. (Shared Credit – 50%)
- 49) 03/2011: Stelzer, H., Kitchen, N., and **Hubbart, J.A.** Sustainability of a Short-Rotation Woody Biofuel System Compared to Grass Biofuel and Grain Cropping Systems, USDA North Central Region, Sustainable Agriculture, Research and Education Grant, \$198,321. (Shared Credit – 33%)
- 50) 03/2010: **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration. Prairie Fork Conservation Trust, Missouri Department of Conservation, \$20,000. (Shared Credit – 100%)
- 51) 05/2010: Jose, S., F. Aguilar, L. Godsey, M. Gold, **J.A. Hubbart**, D. Larsen, R. Miles, P. Motavalli and R. Udawatta. Developing an Interdisciplinary Online Graduate Program in Agroforestry. University of Missouri, grant to develop on-line courses. \$20,000. (Shared Credit – 9%)
- 52) 04/2010: **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration. Prairie Fork Conservation Trust, Missouri Department of Conservation, \$25,000. (Shared Credit – 100%)

- 53) 01/2010: **Hubbart, J.A.** In-Stream Sediment Partitioning: Investigating Diffuse Overland and Hydrogeomorphological Erosion Contributions to Suspended Sediment and Water Quality. Agricultural Research Service, University of Missouri School of Natural Resources, Center for Agroforestry, and Agricultural Research Service, \$47,695. (Shared Credit – 100%)
- 54) 08/2009: **Hubbart, J.A.** Characterizing Floodplain Hydrogeomorphology of an Urban Stream in Support of Restoration of Bottomland Hardwood Forests. United States Environmental Protection Agency, Wetland Program Development Grant, Project Number: EPA-R7-WWPD-09-002, \$319,911. (Shared Credit – 100%)
- 55) 08/2009: Muzika, R-M., F. Aguilar, **J.A. Hubbart**, D. Larson, B. Cutter, R. Guyette, H.E. Stelzer, and C-H. Lin. Integrating Disciplinary Diversity in Graduate Students for Forest Resource Management Decision Support. 2009 CSREES, U.S. Department of Agriculture, Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowships Grants Program, \$245,000. (Shared Credit – 12.5%)
- 56) 06/2009: Motavalli, P., **J.A. Hubbart**, P. Guinan, J. Jones, K. Goynes, C. Tanner, R. Obernuefemann, E. Tewes, T. Stokely. Innovative Methods to Enhance Student Experiential Learning on Water Quality Monitoring in a Campus Environment. Water Quality: University of Missouri, Interdisciplinary Innovation Grant, \$25,000. (Shared Credit – 25%)
- 57) 07/2009: **Hubbart, J.A.** and J. Schulz. Hinkson Creek Watershed: Understanding Hydrologic Processes and Diffuse Nutrients in a Large Multi-Use Urban Watershed. Missouri Department of Conservation, Community Conservation Initiative Grant, \$459,316. (Shared Credit – 100%)
- 58) 04/2009: **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Prairie Fork Conservation Trust, Missouri Department of Conservation, \$21,600. (Shared Credit – 100%)
- 59) 01/2009: **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Prairie Fork Conservation Area, Missouri Department of Conservation, \$14,000. (Shared Credit – 100%)
- 60) 08/2008: **Hubbart, J.A.** Evaluating the Role of Riparian Buffers in Modulating Stream Temperature and Nutrient Fluctuation. United States Environmental Protection Agency, Wetland Program Development Grant, Project Number: EPA-R7-WWPD-08-004, \$560,000. (Shared Credit – 100%)
- 61) 06/2008: **Hubbart, J.A.** Hinkson Creek Watershed: Monitoring Hydrology and Diffuse Pollution in an Urban Environment. Missouri Department of Natural Resources, Project Number: G08-NPS-17, \$634,000. (Shared Credit – 100%)
- 62) 04/2008: **Hubbart, J.A.** The Impact of Cold Air Drainage on Hydrologic Processes in Central Missouri. Richard Wallace Research Incentive Grant Award, \$3,956. (Shared Credit – 100%)
- 63) 04/2008: **Hubbart, J.A.** University of Missouri, School of Natural Resources mini-grant for development of distance education courses, \$5,000. (Shared Credit – 100%)
- 64) 03/2008: **Hubbart, J.A.** Quantifying Hydrologic Processes in a Central U.S. Prairie Ecosystem Undergoing Active Restoration, Missouri Department of Conservation, \$12,950. (Shared Credit – 100%)
- 65) 03/2008: **Hubbart, J.A.** Forest Hydrology Field Studies (Forestry 2540), Department of Forestry Field Instruction Instrument Grant, \$24,000. (Shared Credit – 100%)
- 66) 11/2007: **Hubbart, J.A.** University of Missouri Ag Alumni Association, Alumni Board of Directors, grant, \$500. (Shared Credit – 100%)

FACULTY, STAFF, POST-DOCTORAL AND GRADUATE STUDENT ADVISING

Current Post-Doctoral Associates

- 1) Kaylan Gootman, Ph.D., Shallow groundwater dynamics of West Virginia and the Appalachian Region. The Institute of Water Security and Science, West Virginia University, USA, August 1, 2019 through June 30, 2021.

Current Graduate Students

- 1) Jack Pirner, Ph.D. Student. Plant and Soil Sciences, and the Institute of Water Security and Science. Measuring and Modeling Cadmium in a Mixed-Land-Use Appalachian Watershed, West Virginia University, USA. Matriculation August 2019, anticipated graduation, May 2024.
- 2) Debsree Mandal, PhD Student. Environmental, Soil, and Water Sciences. Water Quality. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA. Matriculation, January 2021. Anticipated Graduation, May 2024.
- 3) Bidisha Faruque, PhD Student. Environmental, Soil, and Water Sciences. Water Quality. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA. Matriculation, January 2021. Anticipated Graduation, May 2024.
- 4) Lilai Jin, PhD Student. Environmental, Soil, and Water Sciences. Water Quality. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA. Matriculation, January 2021. Anticipated Graduation, May 2024.

Current Undergraduate Laboratory Technicians

1. Alexandria Fish, Pre-Baccalaureate. Davis College of Agriculture, Natural Resources and Design, Division of Plant and Soil Sciences, and the WVU Institute of Water Security and Science. January 2020 to Present.

Former Graduate Students and Post-Doctoral Associates (Advisor)

- 1) Zachary Heck, M.S. Forestry and Natural Resources, and the Institute of Water Security and Science. Measuring and Monitoring Streamflow in a Mixed-Land-Use Watershed of Appalachia. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA. August 2018 through December 2021
- 2) Fritz Petersen, Ph.D. Post-Doctoral Research Associate. Investigating Aquatic Microbial Communities and Microplastics in a Mixed-Land-Use Appalachian Watershed. The Institute of Water Security and Science, West Virginia University, USA. August 1, 2020 through July 31, 2021.
- 3) Jason Horne. August 2020, M.S. A Spatially Distributed Investigation of Stream Water Temperature in a Contemporary Mixed-Land-Use Watershed. Environmental, Soil, and Water Sciences. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA.
- 4) Fritz Petersen. August 2020. Ph.D. Advancing Quantitative Understanding of Escherichia Coli Concentrations in a Contemporary Mixed Land-Use Watershed, in West Virginia, USA. Division of Plant and Soil Sciences, Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA.
- 5) Sean Zeiger, Ph.D., Post-Doctoral Research Associate. Hydrologic Modeling Nutrients, Suspended Sediment Loading and Environmental Flows of the Central USA. Fully funded position: August 2016 – February 2020.
- 6) Parameshwor Takhachhe. December 2019. M.S. Environmental, Soil, and Water Sciences. Measuring and Modeling Hydrologic Processes in a Mixed-Land-Use Appalachian Watershed. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA.
- 7) Evan Kutta, Ph.D. Post-Doctoral Research Associate. Investigating Climate change in the Northeastern United States. Fully funded position: June 2017 – June 2019.
- 8) Rivkah Nisan. May 2019. M.S. Environmental, Soil, and Water Sciences. Non-Thesis. Division of Plant and Soil Sciences. Davis College of Agriculture, Natural Resources and Design, West Virginia University, USA.
- 9) Ramsey E. Kellner, Ph.D. Post-Doctoral Research Associate. Combined Flow and Suspended Sediment analyses in Hinkson Creek, Central Missouri, USA. Fully funded position: January 2016 – February 2019.

- 10) Fritz Petersen. December 2018. M.S. Environmental, Soil, and Water Sciences. Investigating Escherichia Coli in a Mixed Land-Use Watershed in West Virginia, USA. West Virginia University, USA.
- 11) Evan Kutta. May 2017. Ph.D. The Horizontal Redistribution of Anomalous Vertical Heat Fluxes at Tropical Latitudes. Matriculated January 2015, graduation, May 2017. University of Missouri, Missouri, USA.
- 12) Michael Sunde, Ph.D., Forestry. Effects of Urbanization on Runoff and Water Quality in a Multi-Use Urban Watershed. Co-Advised with Dr. Hong He. Matriculated January 2012, graduation, December 2016. University of Missouri, Missouri, USA.
- 13) Sean Zeiger, Ph.D., Water Resources. Measuring and Modeling Nutrients and Suspended Sediment Loading in a Multi-Use Watershed of the Central USA. Matriculated August 2014, graduation July 2016. University of Missouri, Missouri, USA.
- 14) Soumaila Gadji, M.S., Water Resources. Measuring and Modeling Suspended Sediment Concentration in the Developed Environment. Matriculated August 2014, graduation, July 2016. University of Missouri, Missouri, USA.
- 15) Elizabeth Spiegel, M.S., Natural Resources, Water Resources. Estimating Above and Below Ground Vegetation Biomass and Carbon Storage across an Intra-Urban Land-Use Gradient in Mid-Missouri. Matriculated August 2014, graduation December 2015. University of Missouri, Missouri, USA.
- 16) Katlin Beaven. M.S., Natural Resources, Forestry. Thesis: Investigating Soil Carbon, Nitrogen, and Respiration across an Intra-Urban Gradient in Mid-Missouri. Matriculated January 2014, graduation December 2015. University of Missouri, Missouri, USA.
- 17) Gregory Hosmer. M.S., Natural Resources, Water Resources. Reconstructing Prairie/Savanna in the Ozark Border Natural Division of Missouri, United States. Matriculated January 2014, graduation December 2015. University of Missouri, Missouri, USA.
- 18) Ramsey E. Kellner, Ph.D., Water Resources. The Long-Term Impacts of Forest Removal on Floodplain Subsurface Hydrology. Matriculated August 2013, graduation December 2015. University of Missouri, Missouri, USA.
- 19) Lynne Hooper, M.S., Natural Resources, Water Resources. A Stream Physical Habitat Assessment in an Urbanizing Watershed of the Central U.S.A. Matriculated January 2013, graduation July 2015. University of Missouri, Missouri, USA.
- 20) Mathew A. Struckhoff, M.S., Natural Resources, Forestry Emphasis. The Land Capability Potential Index: A Decision Support Tool for the Management of Missouri River Floodplain Habitat. Matriculated January 2010, graduation, May 2015. University of Missouri, Missouri, USA.
- 21) Sean Zeiger, M.S. Natural Resources, Forestry Emphasis. Investigating Water and Air Temperature Relationships in a Multi-Use Urbanizing Watershed of the Central U.S. Matriculated August 2011, graduation, May 2013. University of Missouri, Missouri, USA.
- 22) Evan Kutta, M.S. Natural Resources, Water Resources Emphasis. Quantifying Microclimate Heterogeneity within a Contemporary Plant Growth Facility. Matriculated May, 2012, graduation December 2013. University of Missouri, Missouri, USA.
- 23) Keith Brown, M.S. Natural Resources, Water Resources Emphasis. Quantifying Bottomland Hardwood Forest and Agricultural Grassland Evapotranspiration in Floodplain Reaches of a Mid Missouri Stream. Matriculated May 2011, graduation, December 2013. University of Missouri, Missouri, USA.
- 24) Ramsey E. Kellner, M.S. Forestry. Quantifying Urban Stormwater Suspended Sediment Particle Size Class Distribution in the Central U.S. Matriculated January 2012, graduation May 2013. University of Missouri, Missouri, USA.
- 25) Pennan Chinnasamy, Ph.D. Student Forestry. Quantifying HydroBiogeochemical Flux between an Intermittent Mid-Missouri Stream and a Forested Wetland/Floodplain. Matriculated August 2009, graduation December 2012. University of Missouri, Missouri, USA.

- 26) John R. Nichols, M.S. Forestry. Land Use Impacts on Aquatic Invertebrate Assemblages in a Dynamic Urbanizing Watershed of the Central U.S. Matriculated January 2011, graduation, December 2012. University of Missouri, Missouri, USA.
- 27) Dandan Huang, M.S., Forestry. Quantifying Floodplain Stream Bank Erosion and Deposition Rates in a Central U.S. Urban Watershed. Graduated May 2012. Recipient: 2011 University of Missouri, Graduate Student of the Year Award. University of Missouri, Missouri, USA.
- 28) Chris C. Zell, M.A., Natural Resources. Land-Use Effects on Water Resources and Water Quality in an Urbanizing Watershed of the Mid-West. Graduated May 2012. University of Missouri, Missouri, USA.
- 29) Edward A. Bulliner, M.S., Forestry. Advisor. University of Missouri. Quantifying Riparian Canopy Energy Attenuation and Stream Temperature Using an Energy Balance Approach. Graduated, May 2011. Recipient: 2010 AGU Outstanding Student Paper Award. University of Missouri, Missouri, USA.
- 30) Dan P. Scollan, M.S., Forestry, University of Forestry. A Multi-Configuration Evaluation of the Soil and Water Assessment Tool (SWAT) in a Mixed-Use Watershed in the Central U.S.A. Graduated, May 2011. University of Missouri, Missouri, USA.
- 31) Graham W. Freeman, M.S., Forestry, University of Missouri. Quantifying Suspended Sediment Loading in a Mid-Missouri Urban Watershed Using Laser Particle Diffraction. Graduated, May 2011. University of Missouri, Missouri, USA.
- 32) Thomas A. Smith, M.S. Soils, Environmental and Atmospheric Sciences, University of Missouri. Evaluation of Development Impacts in Urban Environments and Improving Practices through Community Understanding. Graduated, May 2011. University of Missouri, Missouri, USA.

GRADUATE STUDENT COMMITTEES

Current Graduate Student Committees

- 1) Joellen Stivala, M.S. Student. Forest Management. Division of Forestry and Natural Resources, Davis College of Agriculture, Natural Resources and Design. Macro-Invertebrate Communities of a Contemporary Appalachian Watershed. Advisor: Dr. Kirsten Stephan. Matriculation August 2019, anticipated graduation, August 2021.
- 2) Darien Lozon, M.S. Student. Wildlife and Fisheries Resources, Davis College of Agriculture, Natural Resources and Design. Turtles of West Virginia: Effects of landscape and management practices on freshwater turtle occupancy, wetland connectivity, and heavy metal accumulation. Advisor: Dr. Jim Anderson. Matriculation January 2018, anticipated graduation, August 2021.
- 3) D. Jesse Carpinello, PhD. Student. Department of Geology and Geography, Eberly College of Arts and Sciences. Sea Level Rise and Saltwater Intrusion Processes. Advisor: Dr. Chris Russoniello. Matriculation, August 2019, anticipated graduation, May 2023.
- 4) Elizabeth Matejczyk, M.S. Student. Department of Biology, Eberly College of Arts and Sciences. Soil Microbial Populations: Nitrogen and Vegetative Species Dynamics. Advisor: Dr. Jonathan Cumming. Matriculation, August 2019, anticipated graduation, August 2021.
- 5) Sharaban Anica, Ph.D. Student. Division of Resource Economics and Management, Davis College of Agriculture, Natural Resources and Design. Financial Assistance and Environmental Compliance: Evidence from the Clean Water Act (CWA) and the Clean Water State Revolving Fund (CWSRF). Advisor: Dr. Levan Elbakidze. Matriculation August 2017, anticipated graduation, August 2021.
- 6) Richard Vest, M.S. Student. Division of Resource Economics and Management, Davis College of Agriculture, Natural Resources and Design. Advisor: Dr. Xiaoli Etienne. Anticipated graduation, August 2021.
- 7) Alex Doyle, M.S., Student. Division of Resource Economics and Management, Davis College of Agriculture, Natural Resources and Design. Advisor: Dr. Michael Strager. Anticipated graduation, August 2022.

PROFESSIONAL SERVICE*Division of Forestry and Natural Resources*

- 01/2022 – Present Serving as Interim Division Director (details presented earlier)
- 08/2020 Assisted Development of Division Strategic Research Plan
- 01/2020 – Present Grants Pre-Award support for faculty developing a research program, seeking funding sources, and developing and submitting grant proposals.

Division of Plant and Soil Sciences

- 10/2021 – 12/2021 Chair: Division Policy Committee: Developed Draft Adjunct Faculty Policy.
- 10/2021 – 12/2021 Associate Director of Research: Conducted analysis of total and individual research funding productivity since 1999. Submitted to Division Director.
- 05/2021 – 12/2021 Chair: Division Policy Committee: Developed Division Policy Committee Policy. Adopted September 16, 2021.
- 03/2021 – 12/2021 Associate Director of Research: Developed Division Research Strategic Plan
- 02/2021 – 12/2021 Chair: Division Policy Committee: Developed Division Policy on Diversity, Equity and Inclusion. Adopted February 5, 2021
- 11/2020 – 12/2021 Chair: Division Policy Committee: Developed Division of Plant and Soil Sciences Faculty Mentoring Policy. Adopted November 20, 2020
- 10/2020 Developed Division of Plant and Soil Sciences Research (5+yr) Plan
- 02/2020 to Present Associate Director of Research (ADR): Division of Plant and Soil Sciences (PSS), Davis College of Agriculture, Natural Resources and Design (DCANRD), West Virginia University, Morgantown, West Virginia, USA.
- 02/2020 to 10/2021 Chair: Policy Committee. Division of Plant and Soil Sciences (PSS), Davis College of Agriculture, Natural Resources and Design (DCANRD), West Virginia University, Morgantown, West Virginia, USA.
- 03/2020 Met with all Division of Plant and Soil Sciences Faculty to discuss their research programs and needs. Developed plan for future activities based on outcomes.
- 01/2020 – 12/2020 Grants Pre-Award support office to support all PSS faculty wishing for assistance developing a research program, seeking funding sources, and developing and submitting grant proposals.
- 01/2020 PSS Faculty Retreat.

West Virginia University, Davis College of Agriculture, Natural Resources and Design

- 09/2021 – 09/2021 Requested planning document (requested from the Dean) regarding development of a Water Center within the Davis College prepared and presented to Dean Darrell Donahue.
- 04/2021 - Present Mentoring Committee Chair for Dr. Emily Perdue.
- 03/2021 – 03/2021 Requested planning document regarding productivity metrics and deployment of such a program for the Davis College prepared and presented to Dean Darrell Donahue.
- 01/2021 - Present Committee Member: College Structure Committee. Chair: Robert Daley.
- 01/2021 - Present Committee Member: Digital Marketing Initiative. Chair: Lindsay Willey.
- 12/2020 – 12/2020 Seminar. Davis College of Agriculture, Natural Resources and Design: Promotion and Tenure Professional Development (Virtual). December 9, 2020.
- 8/2020 – 08/2020 Seminar. Davis College of Agriculture, Natural Resources and Design: Fall 2020 New Faculty Orientation (Virtual). August 17, 2020.
- 04/2020 - Present Committee Member: Engage INFEWS; A Research Coordination Network for Community and Stakeholder Engagement Critical to Food, Energy, and Water (NSF-1856059). To develop a set of Current and Best Practices across U.S. and International FEWS efforts. University of Idaho based, USA consortium.

- 01/2020 – 01/2020 Presentation. Davis College of Agriculture, Natural Resources and Design: Water Research Expertise and Infrastructure: NETL Workshop on Materials and Water Research. January 8, 2020, West Virginia University, Morgantown, WV.
- 08/2019 – 07/2020 Chair: WVU Davis College of Agriculture, Natural Resources and Design, Promotion and Tenure Committee.
- 10/2019 – 04/2020 Search Committee Member: Dean Search. West Virginia University, Davis College of Agriculture, Natural Resources and Design.
- 01/2020 – Present Grants Pre-Award support office to support all DCANRD faculty wishing for assistance developing a research program, seeking funding sources, and developing and submitting grant proposals.
- 01//2019 – 01/2019 Workshop: A WVU+kc Proposal Submission Workshop for the Davis College of Agriculture, Natural Resources and Design. Organized and Sponsored by the Institute of Water Security and Science.
- 09/2018 – 04/2019 Search Committee Member: Hydro-Geoscientist (tenure-track). West Virginia University, Eberly College of Arts and Sciences, Department of Geology and Geography.
- 09/2018 – 03/2019 Directed strategic planning for the Davis College of Agriculture, Natural Resources and Design, Office of Statistics to devise a multi-approach to future support and growth in the College. Successful endeavor, completed, March 2019.
- 11/2017 – 04/2019 West Virginia University Institutional liaison for civil rights and limited English proficiency. USDA National Institute of Food and Agriculture, Northeastern Regional Association of State Agricultural Experiment Station Directors.
- 11/2017 – 04/2019 Davis College Graduate Council. Serving in Capacity as Research Associate Dean to Advance the Mission of the Graduate Programs in the College.
- 08/2017 – 04/2019 Davis College representative / liaison to the Committee for International Affairs (CIA), West Virginia University Office of Global Affairs.
- 08/2017 – 04/2019 Associate Dean of Research, Davis College of Agriculture, Natural Resources and Design, West Virginia University, Morgantown, West Virginia, USA.
- 08/2017 – 04/2019 Member Representative: Northeastern Regional Association of the State Agricultural Experiment Station Directors (NERA). Davis College of Agriculture, Natural Resources and Design.
- 04/2018 – 04/2018 Poster and Oral Session Judge. 22nd Annual Davis College Graduate Student Research and Creative Scholarship Day. Davis College of Agriculture, Natural Resources and Design, Morgantown, West Virginia, USA.
- 08/2017 – Present Member Representative: Association of Public and Land-Grant Universities. Davis College of Agriculture, Natural Resources and Design.
- 04/2017 – 04/2017 Poster and Oral Session Judge. 21st Annual Davis College Graduate Student Research and Creative Scholarship Day. Davis College of Agriculture, Natural Resources and Design, Morgantown, West Virginia, USA.
- 02/2017 – Present Curriculum Committee: Master of Science in Energy Environments, Division of Resource Economics and Management. Davis College of Agriculture, Natural Resources and Design, Morgantown, West Virginia, USA.
- 01/2017 - Present Curriculum Committee: Environmental, Soil, and Water Sciences: Division of Plant and Soil Sciences, Davis College of Agriculture, Natural Resources and Design, West Virginia University, Morgantown, West Virginia, USA.
- 01/2016 – Present Davis College of Agriculture, Natural Resources and Design, Curriculum Committee, Division of Forestry and Natural Resources, Forest Management Program.
- 01/2016 – Present Gubernatorial appointed WVU representative to the Chesapeake Bay Scientific and Technical Advisory Committee (STAC).

06/2016 – Present West Virginia University liaison and ambassador to LaSalle University, France.
 08/2016 – 07/2017 WVU Davis College of Agriculture, Natural Resources and Design, Promotion and Tenure Committee.

West Virginia University

07/2021 – 08/2021 Instructor of Record, FIRST2 Undergraduate Research Summer Immersion Program.

01/2021 – Present Applied Sciences Lead Librarian Search Committee Member. Evansdale Library, West Virginia University.

11/2020 – 05/2021 Committee Member: The Waters of West Virginia: A Science & Technology Policy Perspective. An initiative to examine the current state of the waters of West Virginia and prioritize challenges, opportunities, and potential.

01/2020 – 12/2020 Role as WVU STAC Representative. Examples of Annual Activities:

- Served as Steering Committee Member on Soil Health Workshop
- Served as Steering Committee Member on Workshop to Assess the Environment in Outcome Units (AEIOU): Using Eutrophying Units for Management. Provided text and editorial assistance to Workshop Report.
- Provided peer review of: Workshop report - Increasing Effectiveness and Reducing the Cost of Nonpoint Source Best Management Practice (BMP) Implementation: Is Targeting the Answer?
- Reviewed 3 Workshop proposals from groups seeking CBP funding to support workshops.
- Attended four STAC (quarterly) meetings (2 full days each meeting)
- Reviewed, added text, revised letter from STAC to Governor of Maryland.
- Worked on STAC document, *Achieving Water Quality Goals in the Chesapeake Bay: An Assessment of System Response and Science Needs, Living Resources Section*. This has been a year-long project (approximately 20 hrs invested to date).
- Participated in 4 STAC Executive Board virtual meetings (~10hrs)
- Participated in developing, reviewing a letter to the CBP Executive Council.

12/2018 West Virginia Public Education Collaborative, Legislators' Forum on Education and the Economy – Kickoff Dinner, Morgantown Waterfront Marriott, December 3rd, 2018. Morgantown, USA.

01/2018 – 4/2019 Committee Member: West Virginia University, Shared Research Facilities Council. West Virginia University, Research Corporation.

08/2017 – 4/2019 West Virginia University, Davis College representative / liaison to the Committee for International Affairs (CIA), West Virginia University Office of Global Affairs.

08/2017 – Present West Run Watershed Project Team. West Virginia University, Institute of Water Security and Science, Interdisciplinary Hydrology Laboratory, Scientific Lead. West Run Watershed Restoration Program.

06/2017 – Present West Virginia University Provost's Council. Strategic Programming Council for the Provost.

12-15-2016 Transition team member on West Virginia Infrastructure for Governor elect Jim Justice.

09/2016 – Present West Virginia University Representative to the Consortium of Universities for the Advancement of Hydrologic Sciences, Inc (CUAHSI).

01/2016 – Present Director: Institute of Water Security and Science, West Virginia University, Morgantown, West Virginia, USA.

04/2016 – Present Gubernatorial appointed WVU representative to the Chesapeake Bay Scientific and Technical Advisory Committee (STAC)

West Virginia

06/2020 – Present Co-Director of research (by memorandum of understanding), in collaboration with the United States Forest Service. Fernow Experimental Forest, Parsons, West Virginia, USA.

04/2018 – Present Executive Board Member: Chesapeake Bay Scientific and Technical Advisory Committee (STAC)

08/2017 – Present State Technical Science Lead, West Virginia Program to Established Program to Stimulate Competitive Research. Lead for West Virginia University, West Virginia State University and Marshall University, working with the WV Higher Education Program Commission.

09/2016 – Present State Liaison/representative, Consortium of Universities for the Advancement of Hydrologic Science, Inc., 196 Boston Ave., Suite 3000, Medford MA 02155

07/2016 – Present Member West Virginia State Technical Committee

04/2016 – Present Gubernatorial appointment: WVU representative to the Chesapeake Bay Scientific and Technical Advisory Committee (STAC)

North-Eastern United States

08/2017 – 4/2019 Northeastern Regional Association of State Agricultural Experiment Station Directors (NERA). West Virginia University Representative in role as Assistant Director: West Virginia Agricultural and Forestry Experiment Station.

National (United States)

02/2021 – Present The National Wildlife Federation, Ohio River Basin Alliance Ecosystem Restoration Committee.

08/2017 – Present Association of Public and Land-Grant Universities. West Virginia University Representative in role as Assistant Director: West Virginia Agricultural and Forestry Experiment Station.

10/2014 – 2020 Southeastern Regional Association (SERA-46) Land Grant University (LGI) Gulf Hypoxia Multistate Regional Committee.

International

12/2019 – Present Institutional Liaison and Ambassador to the Global Water Partnership, a World Bank Supported International Network.

10/2019 – Present West Virginia University, Institute of Water Security and Science and Davis College of Agriculture, Natural Resources and Design. Director: non-governmental organization (NGO) to the Barbuda Agricultural Working Group, Island of Barbuda. The Caribbean nation of Antigua and Barbuda.

04/2019 – Present West Virginia University, Institute of Water Security and Science and Davis College of Agriculture, Natural Resources and Design, Ambassador to Direct Assessment of Water Resources for the Island of Barbuda. The Caribbean nation of Antigua and Barbuda.

06/2016 – Present Polytechnic Institute LaSalle Beauvais-Esitpa, Collaborative and Program building Liaison.

06/2015 – Present Belgorod University, Belgorod Russia. Collaborative and Program building Liaison.

06/2015 Invited Opponent for Ph.D. Dissertation defense at the Swedish University of Agricultural Sciences, Umeå, Department of Forest Ecology and Management. May 29th, 2015.

Editorial Positions

- 10/2021 – Present Guest Editor: Agriculture, Ecosystems & Environment, Elsevier. ISSN 0167-8809
- 05/2021 – Present Academic Editor: PLOS Water. San Francisco, California, USA. ISSN 2767-3219
- 03/2021 – Present Topic Editor: MDPI Water. Basel, Switzerland. EISSN 2073-4441
- 03/2019 – 04/2020 Guest Editor: Special Edition, Integrated Water Resources Research: Advancements in Understanding to Improve Future Sustainability. MDPI Water (IF: 2.58)
- 01/2018 - Present Editorial Board Member: Belgorod State University Scientific Bulletin. Belgorod State University, Russia.
- 08/2015 – Present Associate Editor: Sustainable Water Resources Management. Springer, Springer Science and Business Media Publishers.
- 01/2009 – Present Associate Editor: The Encyclopedia of Earth

Journal Article and Grant Proposal Reviewer

- 2020 Total Journal Reviews Provided: 23
- 22 reviews for MDPI Water, 18 were associated with my Guest Editor role for the special edition of water. (see editorial positions above)
 - 1 review for Hydrological Processes
- 2020 Grant Proposal Review: Department of Energy Review Panel. 2020 PNNL Coastal Systems Pilot Study Review Panel. Provided review of approximately 250-page application and served from September 28th through September 30th as a virtual participant in team presentations, and committee evaluations.
- 2020 Grant Proposal Review: National Institute of Food and Agriculture (NIFA) Hatch proposal review (Zac Freedman). Davis College of Agriculture, Natural Resources and Design.
- 2019 Total Reviews Provided: 19

Examples of Publishers/Granting Agencies, etc. (not conclusive) for whom I supply reviews: Journal of Hydrology; Science of the Total Environment; Water Resources Research; Nature, Bioscience, Weather, Water, Hydrology, Climate, and Society; Earth Interactions; Journal of Hydrologic Engineering; Environmental Earth Sciences; Water Resources Management; Atmospheric and Ocean Technology; Hydrological Processes; Sustainable Water Resources Management; Water Resources Management; The American Society of Agricultural and Biological Engineers; Agroforestry Systems; Journal of Sustainable Watershed Science and Management; John Wiley & Sons, Publishers; The Journal of the American Water Resources Association; Ecohydrology; The Journal of Mountain Research and Development; Boreal Environment Research. Bentham Open Access Journals; Forest Science; MDPI Water; MDPI Hydrology; MDPI Climate; MDPI Forests; The National Science Foundation; The Rustaveli (Georgian) National Science Foundation; Earthwatch Foundation.

Peer Teaching and Dossier External Evaluator/Reviewer

- 09/2021 Peer Evaluation of Application for Promotion to (full) Professor of Dr. Tom Pypker. Thompson Rivers University.
- 12/2014 West Virginia University: Research Dossier Peer Evaluation: Dr. Nicolas Zegre
- 05/2014 University of Missouri, School of Natural Resources, Peer Teaching Evaluation.

ADJUNCT APPOINTMENTS

- 01/2016 – Present Adjunct Professor of Forest Hydrology, Department of Forestry, School of Natural Resources, University of Missouri, Columbia, Missouri, USA.

11/2008 – Present Adjunct Professor, Department of Agriculture and Environmental Sciences,
Lincoln University, Jefferson City, Missouri, USA.

PROFESSIONAL AFFILIATIONS

2022 – Present	West Virginia Forestry Association
2021 – Present	The American Society of Reclamation Sciences
2021 – Present	The International Water Association
2019 – Present	The Global Water Partnership: The World Bank
2016 – Present	Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI)
2011 – Present	United Nations Educational, Scientific and Cultural Organization (UNESCO)
2006 – Present	The American Water Resources Association
2006 – Present	The International Association of Hydrological Sciences
2005 – Present	The Society of American Foresters
2003 – Present	The American Geophysical Union
1999 – Present	The Ecological Society of America

REFERENCES AVAILABLE UPON REQUEST