

Photo courtesy of Christopher Haring



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APPLICATIONS OF NATURAL AND NATURE-BASED FEATURES FOR INLAND FLUVIAL ENVIRONMENTS

Christopher Haring, Ph.D., Engineer Research and Development Center

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Applications of Natural and Nature-Based Features for Inland Fluvial Environments

Applications of Natural and Nature-Based Features for Inland Fluvial Environments will highlight the role of the U.S. Army Corp of Engineers (USACE) and partner applications of Natural and Nature-Based Features (NNBF). Included are case studies providing a wide range of applications on inland fluvial systems. Join Christopher Haring, Ph.D., Research Physical Scientist, River Engineering Branch, Coastal and Hydraulics Lab, Engineer Research and Development Center (ERDC), as he considers his experience with geomorphic watershed assessments, wildfire recovery, and soil stabilization projects that combine engineering with nature-based restoration techniques.



Christopher Haring, Ph.D.
Research Physical Scientist,
River Engineering Branch, Coastal and Hydraulics Lab, Engineer Research and Development Center

Dr. Haring is a professional geologist with over twenty-five years of experience in hydrology, hydraulics, river engineering, restoration and stabilization with EWN-NNBF focus, and fluvial geomorphology with the U.S. Army Corps of Engineers and private consulting. Currently, Dr. Haring is a research physical scientist with the River Engineering Branch at ERDC. His work experience includes studies in hydrologic and hydraulic analysis of watersheds, geomorphic watershed assessments, wildfire recovery, riverbed and bank stabilization studies and projects using grade control structures, redirective and bank erosion control measures in combination with Engineering with Nature-Natural and Nature-based Features (EWN-NNBF). He is the USACE lead for developing the international fluvial EWN-NNBF guidelines manual working with partners from the UK, Netherlands, and others. He continues to work in the EWN-NNBF working group on developing Technical Notes and Reports documenting the EWN initiatives and applications. He also serves on the USACE River Engineering Committee that aids USACE Districts on solving water resource and river engineering problems. Current research includes leading the working group on a multi-year project to update the USACE Streambank Manual with EWN-NNBF focus and further develop two geomorphic

assessment tools, FRAME and FluvialGeomorph. In addition, he has also been responsible for conducting geomorphic and river engineering research (RSM, MRGP, EMRRP, FCS, Wildfire, Silver Jackets), and developing and teaching training courses and workshops for the Corps of Engineers, and other federal, state, and local agencies throughout the U.S.

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