RIVER RESTORATION KNOWLEDGE EXCHANGE WORKSHOP - INSTRUCTORS

Janine Castro, PH.D., R.G.

- Geomorphologist, U.S. Fish and Wildlife Service and National Marine Fisheries Service
- Technical Director, PSU River Restoration Certificate Program

Janine Castro is a national expert in geomorphology with the US Fish and Wildlife Service and National Marine Fisheries Service in Portland, Oregon. Her primary duties include developing streamlining tools to improve stream restoration implementation and effectiveness, providing technical assistance on stream restoration projects, evaluating state and federal permit applications for instream work, including dam removal and channel reconstruction, and coordinating between state and federal agencies on controversial issues related to fluvial geomorphology. She is an experienced instructor who provides local, national, and international training on geomorphology, stream restoration, and public speaking for scientists.

Dr. Castro helped develop the EPP River Restoration Program, is one of the five founding members of River Restoration Northwest, and is adjunct faculty in the Environmental Sciences and Management Department at Portland State University.

Google Scholar Profile: https://scholar.google.com/citations?user=5a2l3ysAAAAJ&hl=en&oi=ao

Past presentation slides and/or videos:

Restoring Innovation – the next big thing:
https://umn.webex.com/umn/ldr.php?RCID=9dc2a6b2d9f18305f8bbdd2d833a28bf

Back to the Future, Janine Castro - River Restoration Northwest Symposium:
https://www.youtube.com/watch?v=cmHjFdM6i_Y

Proudly co-presented by

Fisheries and Oceans Canada

Pêches et Océans Canada

PACIFIC SALMON FOUNDATION

RIVER RESTORATION KNOWLEDGE EXCHANGE WORKSHOP - INSTRUCTORS

Damion Ciotti

- Restoration Biologist, U.S. Fish and Wildlife Service

Damion has over 10 years of experience in design and implementation of stream, river, and wetland restoration in the Sierra, Cascades, Great Basin and Appalachia. Major projects include restoration of stream delta systems in the upper Klamath Basin and stream and floodplain reconnections in the Sierra and Cascades. He is interested in testing applications of ecological science and theory to restoration practice. He also coordinates the Tribal Grants Program for the US Fish and Wildlife Service. Damion has an MS in Environmental Science from Oregon State University and a BS in Soil Science from Penn State and was a Peace Corps volunteer in Paraguay.

Research Gate Profile: https://www.researchgate.net/profile/Damion-Ciotti

Past presentation slides and/or videos:

Low-tech Process-based Restoration with Beaver and Wood – Jump-starting Structurally Starved Streams Workshop: https://www.calsalmon.org/programs/events/low-tech-process-based-restoration-beaver-and-wood-jump-starting-structurally-0

Process-Based Design – Illustrated at Doty Ravine: https://ecologicalstreamrestoration.files.wordpress.com/2018/10/ciotti_-doty-ravine-design.pdf

Process-based Design Criteria for Ecological Restoration – 15th Annual UC Berkeley River Restoration Symposium: http://riverlab.berkeley.edu/wp/wp-content/uploads/BerkeleySymposium_DCiotti.pdf

Proudly co-presented by

Fisheries and Oceans Canada

Pêches et Océans Canada

PACIFIC SALMON FOUNDATION

RIVER RESTORATION KNOWLEDGE EXCHANGE WORKSHOP - INSTRUCTORS

Jared McKee, PE

- Engineer and hydrologist, U.S. Fish and Wildlife Service

Jared began working as a Fish Passage Engineer at the Columbia River Fish and Wildlife Conservation Office in early 2020. His primary responsibility is to coordinate with field offices and refuges throughout our region to provide technical support to the Service and Service partners in areas of fluvial restoration and fish passage, including analysis, assessment, design development and design review. Jared also works on large water resources restoration projects in the Pacific Southwest Region, particularly in the Upper Klamath Basin.

Jared received a B.S. and M.S. in Civil and Environmental Engineering from Mississippi State University. After college, he worked for the Dauphin Island Sea Lab on an oyster reef / shoreline restoration project in the Gulf of Mexico. In 2011, Jared began working for the USFWS in the Klamath Falls Ecological Services Office. In 2016, he moved to the Stone Lakes National Wildlife Refuge to be a supervisory hydrologist in the Partners for Fish and Wildlife Program. In 2019, Jared transferred to the Upper Klamath Basin National Wildlife Refuge in the same position.

Research Gate Profile: https://www.researchgate.net/profile/Jared-Mckee

Past presentation slides and/or videos:

Stage Zero Ecological Design, Implementation, and Results – Criteria and Example Application:
https://www.rrnw.org/wp-content/uploads/7.4-RRNW-Jared-McKee-2019.pdf

Ecological Approach to Design and Restoration of Montane Meadows in the Sierra Nevada:
https://www.rrnw.org/wp-content/uploads/1.1-RRNW-Damion-Ciotti-2019.pdf

Proudly co-presented by
Fisheries and Oceans Canada
Pêches et Océans Canada
PACIFIC SALMON FOUNDATION

RIVER RESTORATION KNOWLEDGE EXCHANGE WORKSHOP - INSTRUCTORS

Paul Powers

- Fisheries Biologist, U.S. Forest Service

Paul Powers is a fisheries biologist with the US Forest Service based in Bend, OR. His work entails the development, design and implementation of river restoration projects with the aim of reversing human induced degradation.

Research Gate Profile: https://www.researchgate.net/profile/Paul-Powers-2

Past presentation slides and/or videos:

Telling the Restoration Story of Deer Creek: https://www.oregon.gov/oweb/Documents/2020-Sep-ItemH-1-Telling-the-Restoration-Story-of-Deer-Creek-03Sept2020.pdf

Scaling Up – Stage 0 Restoration on a Large River in the Western Cascades of Oregon: https://www.rrnw.org/wp-content/uploads/7.1-RRNW-Kate-Meyer-2019.pdf

Stage Zero Valley Types: https://s3-us-west-2.amazonaws.com/etalweb.joewheaton.org/Workshops/Stage0/2019/Slides/Indentify+Stage+0+Valley+Types+Class+Exercise+1.pdf

Stage 0 Restoration Approach, Design, and Construction: https://www.ecotoneinc.com/wp-content/uploads/2020/12/2018-srf-9-stagezero.pdf

Geomorphic Grade Line (GGL) Tool Training: https://youtu.be/5wKJK7BXHxs

The Wayback Machine: https://www.scottriver.org/s/Pres-1-w3zh.pdf

Proudly co-presented by

Fisheries and Oceans Canada

Pêches et Océans Canada

PACIFIC SALMON FOUNDATION

RIVER RESTORATION KNOWLEDGE EXCHANGE WORKSHOP - INSTRUCTORS

Colin Thorne, PH.D.

- Professor and Chair of Physical Geography, University of Nottingham, UK
- River Consultant, ESA Vigili-Agrimis, Portland, OR
- Technical Director, PSU Advanced River Restoration Certificate Program

Colin has been an academic for more than four decades, including appointments at Colorado State University, US Army Corps of Engineers Waterways Experiment Station, and Agricultural Research Service National Sedimentation Laboratory. His research concentrates on fluvial hydraulics and sediment transport in natural, modified and managed rivers, particularly with respect to the implications for erosion, sedimentation and flood risk. Thorne performs original research and consultancy nationally and internationally, including work on large rivers and their coastal deltas. Currently, he is leading a research consortium on Blue-Green Cities and is engaged a collaborative research with Portland State University and Reed College on green infrastructure in Portland, OR.

Google Scholar Profile: https://scholar.google.com/citations?user=qShA0o0AAAAJ&hl=en&oi=ao

Past presentation slides and/or videos:

Stage Zero River Restoration for Salmon Recovery in the Pacific Northwest: https://vimeo.com/428498805

Stream without Biology: http://www.rrnw.org/wp-content/uploads/7.1-RRNW-Kate-Meyer-2019.pdf

Other links

Stage Zero River Restoration: http://stagezeroriverrestoration.com/

Proudly co-presented by

Fisheries and Oceans Canada

Pêches et Océans Canada

PACIFIC SALMON FOUNDATION