

SE Alaska Stream and Watershed Restoration Design and Implementation Workshop

Location: Craig Tribal Association Tribal Hall, Craig, Alaska

Cadre:

Brian Bair – Fish Biologist, U.S. Forest Service TEAMS

Paul Burns – Fish Biologist, Siuslaw National Forest

Janine Castro – Geomorphologist, U.S. Fish and Wildlife Service and National Marine Fisheries Service, Portland, OR

Johan Hogervorst – Hydrologist, Willamette National Forest

Paul Powers – Fish Biologist, Deschutes National Forest

Cari Press – Hydrologist, Deschutes National Forest

Overall Workshop Objectives

1. Discuss partnership, prioritization, and plans.
2. Learn how to design dynamic process-based restoration projects.
3. Build on the essential knowledge, skills, and tools to successfully plan and implement restoration projects.
4. Learn some contemporary techniques and technologies for stream and watershed restoration design and implementation.
5. Collectively participate in an open learning environment.
6. Meet new people and make new contacts.
7. Have a good time and enjoy yourself.



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AGENDA

DAY 1: Monday, May 9, 2016

Day One -- Objectives

- Develop an understanding of the need to tier to regional and forest level prioritization.
- Review basic fluvial geomorphology concepts needed in restoration planning and design.

Registration and Check-In	Cadre	11:30 – 12:00
Welcome, Review of Facilities and Administrative Details	Angie Flickinger	12:00 – 12:15
Review Workshop Objectives and ice breaker	Johan Hogervorst	12:15 – 12:45
Regional/Forest Level Restoration Prioritization and WRAPs	Johan Hogervorst / Paul Burns	12:45 – 1:30
Planning & Design For Restoration	Paul Powers	1:30 – 2:00
BREAK		2:00 – 2:15
Overview of Fluvial Geomorphology	Janine Castro	2:15 – 3:30
BREAK		3:30 – 3:45
Defining Success Metrics in Restoration	Janine Castro	3:45 – 5:15
Overview of Tuesday field day	Paul Burns	5:15 – 5:30
Monday night Social at restaurant		6:30 – 9:00



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DAY 2: Tuesday, May 10, 2016

Day Two -- Objectives

- Learn techniques and current technology being used for restoration design.
- Have some FUN! We're in the field the rest of the day.
- Diagnose a degraded channel situation and think about options for restoration:
 - Review collected reference data to apply to a project design
 - Work in teams to plan and design a conceptual restoration project.

Processing field data and channel design	Cari Press	8:00 – 9:30
Application of design data	Paul Burns	9:30 – 10:00
Vans depart from Craig		10:15
Walk through Staney Creek and discuss: <ul style="list-style-type: none"> • Problem – evolution stage • Desired future condition • Field indicators of natural or unnatural processes • Analogue conditions • Develop goals and data needs 	Cadre	11:30 – 1:00
LUNCH		1:00 – 1:30
Break into groups and start planning your design	Teams 1-5	1:30 – 4:15
Return to Craig		5:30



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DAY 3: Wednesday, May 11, 2016

Day Three -- Objectives

- Work on Staney Creek design and present to the group.
- Optional Evening Discussion --Discuss watershed restoration projects or challenges you are currently working on.

Check in on Workshop Objectives and Q&A from Tues field day or lecture	Paul Burns	8:00 – 8:30
Design a restoration project for Staney Creek	Teams 1 - 5	8:30 – 12:30
LUNCH		12:30 – 1:00
Present restoration designs	Teams 1 - 5	1:00 – 2:30
BREAK		2:30 – 2:45
Present restoration designs	Teams 1 - 5	2:45 – 3:45
Cadre restoration design and critique of Team designs	Cadre	3:45 – 4:15
BREAK		4:15 – 4:30
Late afternoon session (optional): <ul style="list-style-type: none"> • Bring your own restoration project questions/challenges • Cadre will be on-site for advice/recommendations • Pizza provided 	Cadre	4:30 – 6:00



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DAY 4: Thursday, May 12, 2016

Day Four – Objectives

- Have FUN! We're in the field for full day.
- Visit some examples of restoration on the Forest.

Vans Depart from Craig		8:00 am
Walk through Gandláay Háanaa and Harris River and discuss: <ul style="list-style-type: none"> • Restoration objectives • Techniques • Lessons learned 	Cadre	9:00 – 12:00
LUNCH		12:00 – 12:30
Walk through Twelvemile Creek and discuss: <ul style="list-style-type: none"> • Restoration objectives • Techniques • Lessons learned 	Cadre	1:30 – 4:30
Return to Craig		5:45



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DAY 5: Friday, May 13, 2016

Day Five -- Objectives

- Learn about upcoming funding opportunities and partnerships.
- Hear about restoration that didn't go so well and what was learned as a result.
- Hear about restoration in unconfined valleys.
- Hear about large-scale restoration on the Chugach.

Check in on Workshop Objectives and answer any remaining questions about the workshop	Paul Burns	8:00 – 8:15
SE Alaska Mitigation Funds Program Overview	Jess Kayser Forster	8:15 – 9:00
Oops that didn't work - Lessons Learned	Cadre	9:00 – 10:00
BREAK		10:00 – 10:15
Unconfined Valley Restoration Examples (Canyon Creek, South Fork McKenzie, and Whychus Creek)	Johan Hogervorst, Paul Powers, Cari Press	10:15 – 11:00
Resurrection Creek case study	Brian Bair	11:00 – 11:45
Close out, questions, and evaluations	Johan Hogervorst	11:45 – 12:00

