

Wyoming Watershed Conference

February 20-21st, 2019

Hilton Garden Inn, Casper, WY

February 20, 2019

Hallway by Magnolia

7:15 a.m. – 8:15 a.m.

Registration open

Heart of the Garden

8:15 a.m. – 8:45 a.m.

Welcome – Conference Purpose and background

Bobbie Frank – Wyoming Association of Conservation Districts

Todd Parfitt – Wyoming Department of Environmental Quality

Cathy Rosenthal – Wyoming Association of Conservation Districts

Jennifer Zygmunt – Wyoming Department of Environmental Quality

8:45 a.m. – 9:15 a.m.

Waterborne Pathogen Risk in Wyoming and Human Health risks associated to *E.coli*

Noah Hull – Wyoming Public Health Lab

9:15 a.m. – 9:45 a.m.

State Perspective on Water Quality Standards: Overview and History of Wyoming's Recreation Designated Uses and Water Quality Criteria.

Lindsay Patterson – Wyoming Department of Environmental Quality

9:45 a.m. – 10:30 a.m.

National Perspective on Water Quality Standards: Current Water Quality Standards and new indicators being considered.

Tonya Fish – EPA, Region 8, Water Quality Unit

10:30 a.m. – 10:45 a.m.

Break

10:45 a.m. – 11:30 a.m.

Other Tools in the Toolbox

Dr. Elliott Barnhart -USGS Wyoming/Montana Water Science Center - Robotic Sample Collection and On-site Analysis for Microbial Source Tracking.

11:30 p.m. – 12:15 p.m.

Karen Reynolds, Environmental Canine Services LLC – A Pawsitive Approach to Detecting and Source Tracking Sewage Pollution.

12:15 p.m. – 1:15 p.m.

Lunch

1:15 p.m. – 2:00 p.m.

*Rachel McDaniel, South Dakota State University—*E.coli* in stream sediments.*

- 2:00 p.m. – 2:45 p.m.** **Microbial Source Tracking (MST) Session**
Daron Stein, Source Molecular
- 2:45 p.m. – 3:30 p.m.** *Wanda Manley & Noah Hull, Wyoming Public Health Lab – Current Microbial Source Tracking testing at the Wyoming Public Health Lab and future capabilities.*
- 3:30 p.m. – 3:45 p.m.** **Break**
- 3:45 p.m. – 5:00 p.m.** **MST Projects in Wyoming**
- *Tony Hoch, Laramie Rivers Conservation District*
 - *Dave Morneau, Popo Agie Conservation District*
 - *Campbell County Conservation District*
 - *Carlin Girard, Teton Conservation District*
- Heart of the Garden*
5:30 p.m. – 7:00 p.m. **Before and After Best Management Practices Poster Contest & Social**
Light Hors d'oeuvres, Cash Bar

Thursday 21, 2019

- Hallway by Magnolia*
7:00 a.m. – 8:00 a.m. **Registration open**
- Heart of the Garden*
8:00 a.m. – 8:45 a.m. **75 Success Stories and Counting: Perspectives on successful restoration from Oklahoma**
Shanon Philips and Greg Kloxin, Oklahoma Conservation Commission
- 8:45 a.m. – 10:15 a.m.** **Effective Monitoring and Measuring Success**
Jim Bowcutt, Utah Department of Environmental Quality – Using Multiple Indicator Monitoring to show successes / improvements.
- Daren Harmel, USDA-ARS – E.coli bacteria in runoff. Where does it come from, and how do you sample for it?*
- Sol Brich and Ron Steg, Wyoming Department of Environmental Quality - WDEQ perspectives on effective monitoring and coordination; using the Integrated Report as an outreach tool; Integrated Report Call for Data.*
- 10:15 a.m. – 10:30 a.m.** **Break**

10:30 a.m. - 12:00 p.m. **Success and Challenges in Wyoming—local perspectives on how to protect and restore waterbodies**

- Sediment success story, Muddy Creek - *Dawn Arnell, Little Snake River Conservation District*
- Selenium success story, North Platte River – *Lisa Ogden, Natrona County Conservation District*
- *E.coli* success story on the horizon, Middle Fork Popo Agie – *Dave Morneau, Popo Agie Conservation District*
- Other Conservation Districts / Agencies successes and challenges with listed waterbodies

12:00 p.m. – 1:00 p.m. **Lunch and Poster Contest Results**

1:00 p.m. – 2:00 p.m. **Best Management Practices Session**
Dr. Kenneth Tate, UC Davis – Best Management Practices at the Ranch to Minimize Pathogen Loading

2:15 p.m. – 4:15 p.m.

Dahlia	Magnolia
Grazing Management on Riparian Areas	Small Acreage BMPs for Water Quality and Stream / Wetland Restoration
Riparian Grazing Management; a Wyoming perspective – <i>Glenn Owings, UW Extension</i>	Outreach and Marketing approaches for effective pasture management practices -providing assistance to landowners -resources available for outreach - possible tactics , round- table discussion (come with ideas & experiences to share) <i>Jennifer Thompson, UW Extension Small Acreage Outreach Coordinator</i>
Break 3:00 p.m. - 3:15 p.m.	
Riparian Meadow Response to Modern Conservation Grazing Management - <i>Dr. Kenneth Tate, UC Davis</i>	The pollution stops here, because clean water is a good thing - <i>Brian Deurloo, Founder, Frog Creek Partners</i>
	Use of Beaver Dam Analogs – <i>Lara Gertsch, Aquatic Habitat Supervisor, Game and Fish Department</i>