

Western States Rural Transportation Consortium Annual Meeting

June 14, 2022

Overview/Agenda

- Welcome / Introductions
- Western States Forum Preview
- History of COATS, WSRTC
- WSRTC Pooled Fund updates/discussions
- WSRTC Documents
- General project discussion
- Roundtable of recent/planned ITS activities
- Other discussions (as needed)

Welcome / Introductions

Western States Rural Transportation Technology Implementers Forum

Preview



Western States

**Rural Transportation
Technology Implementers**

Forum

June 14 – 16, 2022

Yreka, California

Best Western Miner's Inn

Presentations / Demonstrations

Controlled Helter-Skelter: A Tale of Chain Controls and Traffic Queuing

Keith Koeppen, Caltrans District 2

UDOT's Region Four Variable Speed Limit (VSL) I-15 Corridor in Rural Utah

Troy Torgersen, Graig Ogden, Cody Opperman; Utah DOT

Evaluation of Road Weather Messages on DMS using Roadside Pavement Sensors

Skylar Knickerbocker, Iowa State University

The Nevada TSMO Program – A Modern Approach to Solving Old Problems

LaShonn Ford, Nevada DOT

Next Generation Work Zone Data Integration and Dissemination – Work Zone Data Exchange (WZDx) Development from Planning to Operations

Justin Belk, Joshua Hudson; Washington State DOT

Presentations / Demonstrations

UDOT's Region Four Intersection Conflict Warning System Phase 2

Troy Torgersen, Graig Ogden; Utah DOT

Commodity Traffic Cameras as Cost-Effective Alternative to Traditional Sensing Hardware

Dan Rossiter, Southwest Research Institute

Traffic Monitoring Using Fiber Optic Sensing

Eric MacGill, Jeffrey Bickett; Nevada DOT

Schedule of Events

Tuesday, June 14th

- 4:00 pm Registration
- 5:00 pm Reception (no-host)
- 6:30 pm Dinner, Networking

Wednesday, June 15th

- 7:00 am Breakfast
- 8:00 am – 5:15 pm Technical Program
- 6:00 pm Social, Networking

Thursday, June 16th

- 7:00 am Breakfast
- 8:00 am – 12:00 pm Technical Program
- 12:00 pm – END Closing Remarks, Evaluations, Lunch

Participation

- 17th Annual Western States Forum
- 46 Participants Registered:
 - By State:
 - California (25)
 - Iowa (1)
 - Montana (1)
 - Nevada (8)
 - Oregon (1)
 - Texas (2)
 - Utah (3)
 - Washington (5)

Participation

Caltrans Participants:

- D1 (5)
- D2 (10)
- D3 (2)
- D4 (2)
- D10 (2)
- HQ (1)
- DRISI (1)

Participation

– Participants from Other Agencies:

- Oregon Department of Transportation (1)
- Nevada Department of Transportation (6)
- Utah Department of Transportation (3)
- Washington State Department of Transportation (5)
- Montana Technological University (1)
- Oregon State University (1)
- University of California Davis (1)
- Southwest Research Institute (2)

History of COATS and the WSRTC

WSRTC Pooled Fund updates/discussions

WSRTC Pooled Fund

- WSRTC Phase II TPF-5(241) was granted time extension.
- New Expiration = 3/31/2023
- WSRTC Phase III

WSRTC Meeting Coordination, Western States Forum Travel Support and Website Maintenance (Task Order 14)

- Start Date: 4/26/2021
- End Date: 3/31/2023
- Budget: \$175,748.00
- WSRTC Meeting Facilitation and Attendance:
 - WSF, NWTC, NRITS, ITE, ITS America, ITS World Congress
 - Other meetings via teleconference as needed.
- Western States Forum Support
- Website Content and Maintenance
- Estimated \$96,112 remaining as of beginning of June 2022.

WSRTC Documents

- Charter updates

Projects

ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)

- Start Date: July 1, 2021
- End Date: March 31, 2023
- Budget: \$71,450
- Montana Tech

On-going support will be provided for the Automated Safety Warning System Controller (ASWSC) and One-Stop-Shop (OSS) projects. Project lab development environments will be established at Montana Tech in Butte so that support can be provided for the ASWSC and OSS projects.

ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)

Highlights:

- This task order started July 1st, 2021.
- The Caltrans Project Champion (Jeremiah Pearce) visited Montana Tech on 8/24/2021 to configure and turn on the ASWSC lab and conduct a project kickoff.
- Two students were hired to assist on ASWSC at the end of September 2021.
- Principal Investigator (Doug Galarus) and Caltrans District 2 (Jeremiah Pearce and Jeff Worthington) prepared and delivered a presentation about ASWSC Western States Forum in October 2021.

ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)



ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)

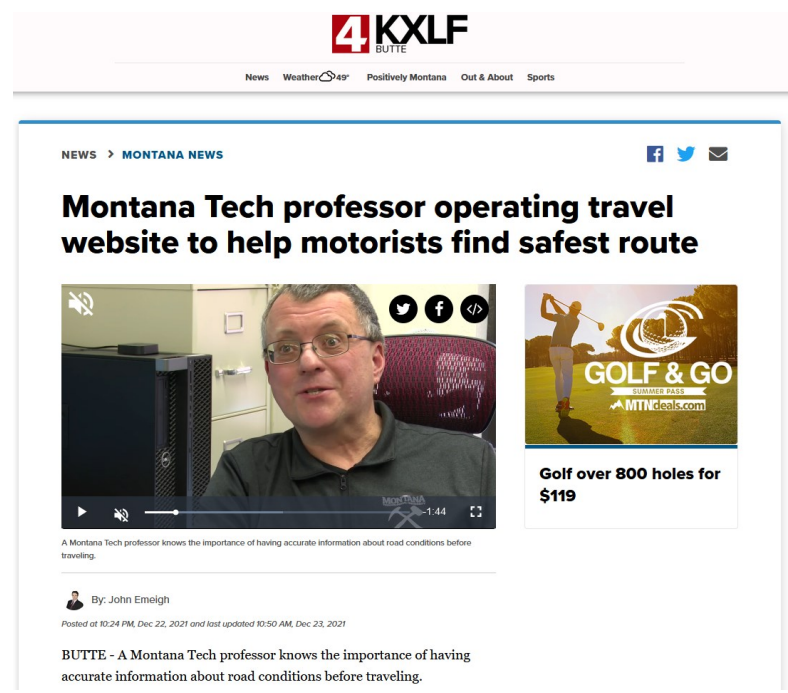
Highlights:

- The Principal Investigator (Doug Galarus) conducted public outreach for the One-Stop-Shop via a press release at Montana Tech
 - Subsequent interviews were conducted with local news affiliates from FOX, ABC, CBS and NBC.
 - Sean Campbell and Keith Koeppen from Caltrans participated in an interview, the news piece aired statewide and resulted in increased traffic and usage for OSS.
- The One Stop Shop had record traffic during December 2021, with 83,208 users, 266,915 user sessions, almost 17 million events, and over 8 million CCTV views.

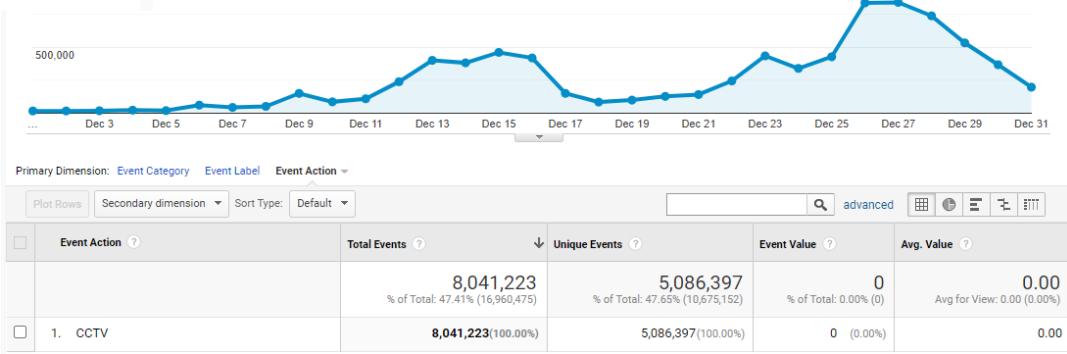
ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)



https://www.montanarightnow.com/butte/one-stop-shop-provides-winter-weather-info-for-travelers/article_910d5526-68f8-11ec-8892-574612f43758.html



<https://www.kxlf.com/montana-tech-professor-operating-travel-website-to-help-motorists-find-safest-route>



ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)

Highlights:

- The two student research assistants working on ASWSC:
 - helped to finish setup of the ASWSC lab and set up a development environment for ASWSC.
 - worked through prior documentation to check for correctness of the install and proper operation of the system.
 - established connectivity to the system via serial connection was in early January, and subsequently installed the ASWSC software on the ATC.
 - attempted to replicate and address errors that Caltrans has observed in system operation.

ASWSC, One Stop Shop and WeatherShare Support (Montana Tech WSRTC Task Order 1)

Highlights:

- Another student research assistant was hired in January to work on OSS and help to fix broken and missing data feeds.
- Feeds for incidents in Montana and Idaho were made operational in the One-Stop-Shop.
 - Work was done on maintenance and construction data for Montana, but there was an issue causing this data to not be displayed. This issue has not yet been resolved.
- Maintenance and monitoring of OSS and WeatherShare continued, with several bug fixes performed.
- Issues were addressed including one in which WeatherShare data filled storage on the old production server.
 - Archived data was moved off the server to free up space and system operation quickly returned to normal.

WeatherShare Maintenance

(Funded and Contracted Directly by Caltrans)

- Start Date: January ~~2022~~ 2023?
- Start Date: December 31, ~~2024~~ 2025?
- Budget: \$100,000
- Montana Tech

On-going support will be provided for the WeatherShare project. Project lab development environments will be established at Montana Tech in Butte so that support can be provided for the WeatherShare project.

How-To Handbook/Manual for the Western States Forum

- Updated annually
- Practical, how-to guide for planning and executing the Western States Forum
- “...intended to document the Forum in such a way that the event and its standard of excellence can be easily continued even as staffing and other inevitable changes occur.”

Spin-Off Projects – On-Going

- Professional Capacity Building (PCB) for Communication Systems Phase 5
 - Start: 04/01/2020
 - End: 03/31/2023
- COATS Phase 8
 - Start: 2/04/2020
 - End: 1/31/2022

WSRTC Website

- www.westernstates.org
- Summary of Consortium's Work, Documents
- Compliance and accessibility
- Also Forum website
 - www.westernstatesforum.org

Upcoming Meetings

- WSRTC Annual Meeting, Yreka, CA, June 14, 2022
- ITE, NRITS, New Orleans, LA, July 31-August 3, 2022
- ITS World Congress, Los Angeles, CA, Sept. 18-22, 2022

Roundtable of Recent ITS Activities

Other Discussions

Wrap-up

- Next meeting
 - ITE, NRITS in New Orleans, LA, July 31-August 3, 2022
- Action items
- Other