



Utah-Wyoming EPSCoR Track 2 Grant

**CI-WATER: Cyberinfrastructure to
Advance High Performance Water
Resource Modeling**

Team Members



Norm Jones, Jim Nelson, Gus Williams



David Tarboton, Jeff Horsburgh, David Rosenberg



**Steven Corbato, Laura Hunter, Steve Burian,
Christine Pomeroy, Courtenay Strong**



**Fred Ogden, Craig Douglas, Kristi Hansen, Scott
Miller, Ye Zhang, Gi-Hyeon Park, Ginger Paige,
Robert Aylward**

Synergistic Resources and Expertise

University of Utah

Data Management
Optical Networking
Urban Watersheds
Climatology
Outreach, Communication

University of Wyoming

HPC, NCAR Facility
Parallel Code Development
Hydrologic Modeling
Economics

Utah State University

Water Resource Modeling
Hydro Information Systems
Data Services
Water Decision Support

Brigham Young University

Distributed Computing
Groundwater Modeling
Geospatial data models
Integrated modeling software

Project Objectives

1. Enhance cyberinfrastructure facilities
2. Enhance access to data- and computationally-intensive modeling
3. Advance high-resolution multi-physics watershed modeling
4. Promote STEM learning and water science engagement



Team Organization

Team 1

Cyberinfrastructure Facilities

Steve Corbato (UU)
Craig Douglas (UWYO)
Jeff Horsburgh (USU)
Jim Nelson (BYU)
Fred Ogden (UWYO)
Kelly McDonald (BYU)
Eric Hawley (USU)
Robert Aylward (UWYO)
Jim Stewart (UEN)

Team 2

Access to Data- and Computationally- Intensive Modeling

David Tarboton (USU)
Jeff Horsburgh (USU)
Jim Nelson (BYU)
Norm Jones (BYU)
Steve Burian (UU)
Steve Gray (UWYO)
Scott Miller (UWYO)
Kristi Hansen (UWYO)
Courtenay Strong (UU)

Team 3

High-Res Multi-Physics Watershed Modeling

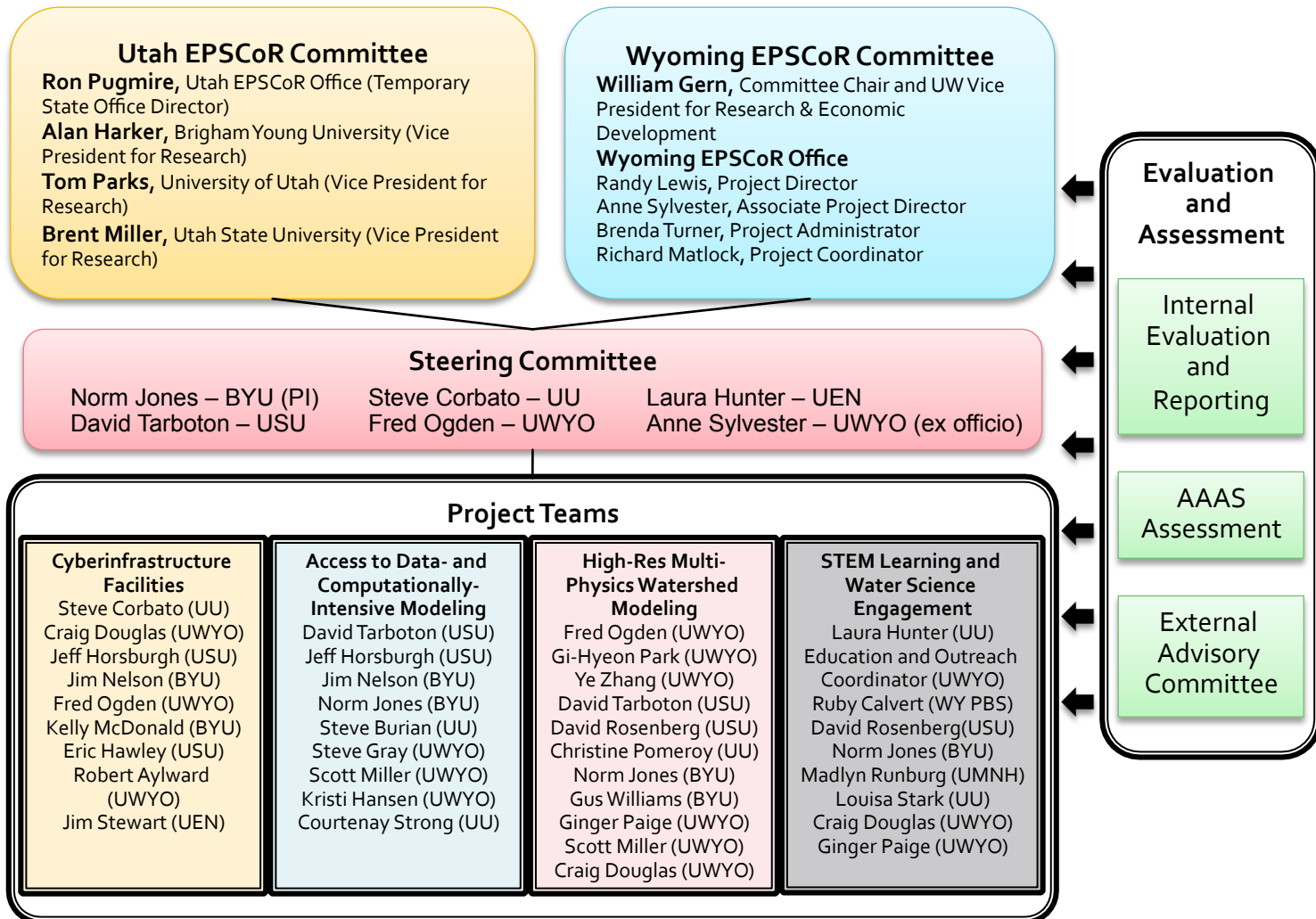
Fred Ogden (UWYO)
Gi-Hyeon Park (UWYO)
Ye Zhang (UWYO)
David Tarboton (USU)
David Rosenberg (USU)
Christine Pomeroy (UU)
Norm Jones (BYU)
Gus Williams (BYU)
Ginger Paige (UWYO)
Scott Miller (UWYO)
Craig Douglas (UWYO)

Team 4

STEM Learning and Water Science Engagement

Laura Hunter (UU)
Education and Outreach
Coordinator (UWYO)
Ruby Calvert (WY PBS)
David Rosenberg (USU)
Norm Jones (BYU)
Madlyn Runburg (UMNH)
Louisa Stark (UU)
Craig Douglas (UWYO)
Ginger Paige (UWYO)

Management Structure



Utah EPSCoR



**Inter-Campus and Intra-Campus
Cyber Connectivity (RII C2):
Extending Campus Networks and
Research@UEN Optical Network in
Support of the Utah EPSCoR**



A Utah-Wyoming Cyberinfrastructure
Water Modeling Collaboration

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Preserving Utah's Water Resources

innovative **U**rban **T**ransitions and **A**ridregion **H**ydro-sustainability

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CI-WATER Timeline

- 3/11 Proposal submitted
- 9/11 Grant awarded
- 9/11 – 8/12 Planning, recruiting, ramping up project
- 9/12 First annual symposium and review by external advisory board

Project now operating at full capacity and billing rate

Will seek one-year no-cost extension

Findings from 9/12 external review

- Changes to website
- Billing rate
- Software stack for geoprocessing
- Better integration/collaboration between institutions
- Steering committee meeting frequency