



**iUTAH EAB Meeting**  
**University Guest House and Conference Center, 110 Fort Douglas Boulevard,**  
**The University of Utah, Salt Lake City UT 84113**

**Agenda**

**Thursday, 14 July 2016**

**2:00 PM to 5:00 PM**

**Alpine Room**

2:00 pm External Advisory Board meets with Leadership and Management Teams (**closed session, with invited guests**)

2:00 pm Welcome and Introductions—*Michelle Baker (USU), Project Director*

2:05 pm iUTAH Year 4 in Review—*Andreas Leidolf (USU), Assistant Director and Project Administrator*

*Team Update “Lightning Talks”*

2:20 pm Facilities—*Jim Ehleringer (UU), Lead*

2:25 pm RFA1—*Zachary Aanderud (BYU)/Scott Jones (USU), Co-leads*

2:30 pm RFA2—*Courtney Flint (USU)/Doug Jackson-Smith (USU)/Christine Pomeroy (UU), Co-leads*

2:35 pm RFA3—*Sarah Null (USU)/Courtenay Strong (UU), Co-leads*

2:40 pm Cyberinfrastructure—*Amber Jones (USU), Data Manager*

2:45 pm Education, Outreach and Diversity—*Mark Brunson (USU), EOD Director*

*Accomplishments through Year 4*

3:00 pm Significant Outputs and Key Outcomes—*Michelle Baker*

3:15 pm Discussion

3:30 pm *Break*

*On the Path to Sustainability—Year 5 and Beyond*

3:45 pm Year 5, Year 6, and iUTAH 2.0—*Michelle Baker*

4:00 pm iUTAH Sustainability Plan—*Paul Brooks (UU), State EPSCoR Committee Chair*

4:10 pm Communications and Outreach/Public Relations—*Jeannine Huenemann (USU), Communications Specialist*

4:20 pm Stakeholder Engagement—*Martin Buchert (UU), Lead, iUTAH Visualization Laboratory*  
4:30 pm Discussion  
4:55 pm Concluding Remarks—*Michelle Baker*  
5:00 pm Meeting adjourns

## **Collaboration—Connection—Innovation—Impact—Opportunity**

**iUTAH 2016 Annual Symposium and Summer All-Hands Meeting**  
**University Guest House and Conference Center, 110 South Fort Douglas Boulevard,**  
**University of Utah, Salt Lake City, UT 84113**

### **Agenda**

**Friday, 15 July 2016**

**8:00 am to 12:30 pm**

**Fort Douglas Ballroom**

8:00 am *Informal networking with refreshments available*

8:30 am **Opening Session**

- Welcome and Introductions—*Michelle Baker (USU), Project Director*
- Announcements—*Michelle Baker*

8:35 am **Participant Brief**

- iUTAH Year 4 in Review—*Andreas Leidolf (USU), Assistant Director and Project Administrator*
- Significant Outputs and Key Accomplishments—*Michelle Baker*
- Outlook on Year 5 and Beyond—*Michelle Baker*

9:00 am **Keynote Address: “Integrating Research with the Local Landscape”**

Laura Briefer, Director, Salt Lake City Department of Public Utilities

Managing water resources, protecting our landscapes, and planning for future generations has become more complex in light of growing and more diverse populations and a changing climate. Vast amounts of global information and data have also become more readily available to practitioners to draw upon in the political, policy, and technical fields. However, many of the issues we are working to resolve have uniquely local characteristics, including climate, hydrology, geography, and demographics. These unique characteristics require research questions and both quantitative and qualitative data that have a distinctly local application. Two examples will be explored, including thoughts on incorporating a data-driven systems approach to negotiation and decision-making in the ongoing Mountain Accord process, as well as the creation of a multi-disciplinary team to plan for climate change impacts to Salt Lake City's water resources.

10:00 am *Break (Lobby)*

10:15 am **Collaboration:** *“Collaborative Research: Challenges, Rewards, and Opportunities”*

Individual participants’ experiences—both challenging and rewarding—of working in a highly integrated, multi-institutional research environment, followed by a discussion of the opportunities our collective collaborative experience presents in solving critical, complex problems in the future.

- Jane Li (USU)—The Painful Joy of Academic Collaboration
- Court Strong (UU)—No Scientist Can Survive as an Island
- Andreas Leidolf (USU)—“If You Build It, They Will Come:” Building a Team Science Community of Practice in Utah

10:50 am **Connection:** *“Connecting the Dots—PUIs, R1s, & iUTAH’s Culture of Collaboration”*

Two examples of iUTAH-funded research catalyst grants and their role in advancing Weber State University educational and sustainability goals, followed by a discussion of opportunities for future R1/PUI collaboration.

- Carla Trentelman (WSU)—Uncovering Attitudes Towards Water
  - Response: Jennifer Bodine (WSU)
- Gary Johnson (WSU)—iUTAH Weber County Water Survey
  - Response: Therese Grijalva (WSU)
- Paul Brooks (UU)

11:25 am **Innovation:** *“Innovation Within—Innovation Without—Innovation in Action”*

Examples of innovative research, novel approaches, and new initiatives that leverage iUTAH’s collaborative research and training environment, followed by an interactive panel on tall ambitions, new frontiers, and distant horizons.

- Courtney Flint (USU) –Getting Beyond Science: Creative Tools for Assessing the Human Dimensions of Water
- Martin Buchert (UU)—Piping GAMUT Observations from the Academy Well-head to the Public
  - Response: Becky Menlove (NHMU)
- Diane Pataki (UU)—The Red Butte Creek Revitalization Plan: Translating iUTAH Knowledge into Action

12:00 pm **Impact:** *“Moving the Needle in Research and Training”*

Presentations on select outcomes of iUTAH research and EOD training initiatives that have produced—or are likely to show—impacts within and across disciplines, in Utah and beyond, and their application and utility outside of academia.

- Scott Jones—A Multifunctional Heat Pulse Probe for Soil Physical Property and Process Assessment
- Ryan Dupont—DHS: Distributed Harvesting of Stormwater
- Mark Brunson—Progress Toward a More Diverse Water Workforce

- Response: Adrienne Andrews (WSU)
- 12:30 pm     *Working Lunch—Poster Session by iFellows, RCG Students, iUTAH Trainees and iVL Interns, and Summer Institute Participants (North Lobby)*
- Working Lunch—Executive Committee of the State EPSCoR Committee (Ensign Boardroom, closed session)*

**2:00 pm to 4:00 pm**  
**Various Locations**

2:00 pm     **Opportunity**

Parallel-track breakout sessions (please refer to the breakout assignment that is included with your name tag)

- Alpine: Opportunities for PUI/R1 Engagement—Carla Trentelman (WSU) and Michelle Baker (USU)

This session will explore opportunities for continuing the productive collaborations that have been established through the iUTAH project between Utah’s three PhD-granting universities and the many primarily undergraduate institutions in the state. As a group and in small teams, participants will share ideas for cross-institutional research and training programs, explore ways to continue promotion of women and minority participation in STEM, and brainstorm potential funding opportunities.

- Bonneville: Opportunities for Integrative Science and Training in Utah—Andreas Leidolf (USU) and Nancy Huntly (USU)

Large, complex problems associated with the growing sustainability challenges posed by climate change and population growth will increasingly require integrated, interdisciplinary, and multi-institutional approaches to address.

This session seeks to explore opportunities for integrative science and training in Utah in a “post-EPSCoR” world. We begin with a brief review of iUTAH accomplishments in building collaborative research capacity in the state, followed by an overview of near- and long-term federal funding priorities, both topical and programmatic, for research and training. As a group, we will reconcile what we have built with this anticipated future funding landscape; followed by small-group discussion to identify opportunities for water/air infrastructure and observatories, solutions-oriented projects in water sustainability, projects in coupled human-natural systems, training programs, and cross-campus initiatives; and ending in a report-out on concrete ideas and specific funding opportunities vis-à-vis iUTAH’s role in its final project year.

- City Creek: Opportunities for Participatory Research and Modeling Linking Climate and Water—Court Strong (UU) and Paul Brooks (UU)

Developing effective policy and resource management solutions in the face of ongoing climate change requires moving beyond global scale trends in mean temperature and precipitation to locally and regionally relevant climate forcing and landscape mediated hydrologic response. Our goal with this session is to leverage recent advances in observation and modeling at these management-relevant scales to identify and pursue opportunities for new research-stakeholder partnerships, proposal generation, and infrastructure design to ensure clean, secure water supplies under a changing climate.

We begin with 10-minute discussion-oriented presentations on 1) how we are developing high resolution climate fields (“downscaling”) and 2) how landscape characteristics “filter” that climate to control the partitioning of precipitation into both societal and ecosystem available water. Following these discussions, we focus on selection of participant-developed science topics and research questions in small-group discussions. A spokesperson for each group will provide a summary of the discussion prior to adjourning.

- Fort Douglas Ballroom: Staying Connected to Make a Difference - Exploring Collaborative and Innovative Ways to Impact Your Contributions to Utah's Water Future (Student Track)—Ellen Eiriksson (USU)

In this professional development session, attendees will engage with peers and STEM professionals. All iUTAH undergraduate and graduate students are welcome to attend.

- Foothills Boardroom: EAB (closed session)

4:00 pm      *Break (Lobby)*

**4:15 pm to 5:00 pm**  
**Fort Douglas Ballroom**

4:15 pm      **External Advisory Board Recommendations and Discussion**

4:55 pm      **Wrap-up—Michelle Baker**

5:00 pm      **Meeting adjourns**