

Utah Lake Water Quality Study Proposed Science Panel Configuration

Introduction

At the conclusion of the March 12, 2018 Steering Committee meeting the members requested the Co-Chairs develop Science Panel membership alternatives, for full Steering Committee consideration, based on:

- 1) The prioritization exercises completed in the meeting;
- 2) Further review of the nominee's credentials and expertise; and
- 3) Information and clarification from follow-up conversations with specific nominees.

Due Diligence

Several Science Panel candidates were contacted following the March 12 meeting to: 1) verify their understanding of the commitment required by the study; 2) assess interest in bidding on research proposals; and 3) explore other clarifications requested by the Steering Committee. New information gained from these discussions includes:

- Michael Brett – Dr. Brett indicated he does not intend to bid on future solicitations and his response was changed from “yes” to “no.”
- Jereme Gaeta – Dr. Gaeta confirmed his willingness to participate on the Science Panel. He also indicated his intention to bid on future solicitations and the response was changed from “maybe” to “yes.”
- Peter Leavitt – Dr. Leavitt confirmed his intention to bid on any paleolimnological work proposed during this project.
- Gustavious Williams – Dr. Williams indicated he does not intend to bid on future solicitations and his response was changed from “yes” to “no.”

Proposed Science Panel Membership

The Co-Chairs initially set out to develop three alternatives for a science panel as discussed in the March 12 meeting. However, following a thorough review of all the candidates and the rankings provided by the Steering Committee, the Co-Chairs propose the following panel composition for consideration by the Steering Committee.

Intended to incorporate the Steering Committee's preference for independence and Utah Lake experience, this proposal consists of a core Science Panel of 4-6 voting members with an additional 3-7 potential Ex-Officio members. Similar to the 5-member independent panel and a 5-member Ex-Officio panel option, the groups listed below will require additional Steering Committee input on nominees that the Co-Chairs are proposing. These added potential members were selected based on newly gathered information or the expertise they bring to the Panel based on Steering Committee priorities (indicated with an asterisk*). The attached table includes justification for inclusion on the Panel.

The **Science Panel (Independent)** could consist of the following individuals:

- 1) Michael Brett
- 2) Ryan King
- 3) James Martin
- 4) Hans Paerl

- 5) Mitch Hogsett*
- 6) Gustavious Williams*

The **Science Panel (Ex Officio)** could consist of the following individuals:

- 1) Jereme Gaeta
- 2) Theron Miller
- 3) Sam Rushforth
- 4) Janice Brahney*
- 5) Soren Brothers*
- 6) Greg Carling*
- 7) Jeff DenBleyker*

In addition, the Co-Chairs felt Division of Water Quality support will be essential to enabling the Science Panel to complete its work and so they are proposing to appoint Scott Daly as a non-voting member to the Science Panel to ensure the study's goals are met in accordance with DWQ policies and Clean Water Act requirements.

Please be prepared to discuss the final selection of the both the Independent and Ex Officio panel members. A conference call is scheduled for April 3rd at 10:30-12:30 to review this information and we propose the Steering Committee strive to reach closure on panel membership at this discussion to move forward on the Utah Lake study.

Table 1. Proposed Science Panel Membership

First Name	Last Name	Nominee Affiliation	Primary Discipline	Justification	Utah Lake Experience	Utah Based	Aquatic ecology	Biogeochemistry	Fisheries management	Hydrology (Modeling)	Nutrient cycling	Limnology	Phycology	Toxicology	WQ criteria	WQ modeling	Wetland science	Other?	Bid	Independence
Michael	Brett	University of Washington	Limnology	Dr. Brett was ranked 6 th in the in the first round of prioritization and 7 th in the second round of prioritization, however his nomination information indicated that he intended to bid on future work. On a follow-up due diligence call he indicated that he will not bid. Dr. Brett was added to the list of independent candidates as a result of broad support from the SC, his applicable skill set, and his confirmation to not bid on future studies.								X						X	N	Y
Ryan	King	Baylor University	Aquatic ecology	Dr. King received broad support from the Steering Committee as a qualified nominee to serve on the Science Panel. His areas of expertise were edited to include wetland science and water quality criteria development, which were not originally indicated. He has considerable experience with nutrient, evaluating ecological responses to nutrients, and developing criteria by translating scientific evidence into environmental policy.			X	X		X	X				x		x		N	Y
James	Martin	Mississippi State University	Water quality modeling	Dr. Martin received broad support from the Steering Committee as a qualified nominee to serve on the Science Panel. He has direct experience with the WASP model and with incorporating scientific uncertainty into policy decisions, both are specific task requested for this project.			X	X		X	X				X	X		X	N	Y

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Hans	Paerl	University of North Carolina	Limnology	Dr. Paerl received broad support from the Steering Committee as a qualified nominee to serve on the Science Panel. He is well qualified limnologist with a broad range of expertise well suited to the ULWQS.			X	X			X	X	X						N	Y
Mitch	Hogsett	Forsgren Associates, Consultant	Biogeo-chemistry	Dr. Hogsett provides direct research experience on Utah Lake, is independent, and was prioritized in the top 7 by the Steering Committee.	x	x		X										X	N	Y
Gustavious	Williams	Brigham Young University	Water quality modeling	Dr. Williams has some direct Utah Lake research experience and is the only member proposed to the independent candidates with toxicology experience.	X	X					X			X		X			N	Y

Table 2. Proposed Ex Officio Membership.

First Name	Last Name	Nominee Affiliation	Primary Discipline	Justification	Utah Lake Experience	Utah Based	Aquatic ecology	Biogeochemistry	Fisheries management	Hydrology (Modeling)	Nutrient cycling	Limnology	Phycology	Toxicology	WQ criteria	WQ modeling	Wetland science	Other?	Bid	Independence	
Jereme	Gaeta	Utah State University	Aquatic ecology	Dr. Gaeta has expertise in aquatic ecology and fisheries management, the latter is the only expertise missing from the Science Panel. He was ranked high in the first and second prioritization exercise. He also has direct Utah Lake research experience.	x	X	X		x											Y	N
Theron	Miller	Wasatch Front Water Quality Council	Biogeo-chemistry	Dr. Miller has expertise in the limnology of Utah's waters and water quality policy from his years of work with the State, EPA and most recently regulated entities along the Wasatch Front.	x	X	X	X	X	X	X	X		X	X	X	X			M	N
Sam	Rushforth	Rushforth Phycology	Phycology	Dr. Rushforth was highly prioritized as an ex officio member due to his significant Utah Lake research experience.	x	X	X					X	X							Y	N

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**Janice	Brahney	Utah State University	Biogeo-chemistry	Dr. Brahney has experience in paleolimnology and with evaluating atmospheric deposition of nutrients, topics that are important to this project.		x		X										X	Y	N
**Soren	Brothers	Utah State University	Limnology	Dr. Brothers has significant research experience on shallow lakes around the country and the world. His expertise as a shallow lake ecologist will supplement the expertise of the Science Panel.		x						X							Y	Y
**Greg	Carling	Brigham Young University	Biogeo-chemistry	Dr. Carling has direct research experience on Utah Lake evaluating sediment nutrient cycling. The Steering Committee prioritized him as a candidate for ex officio membership.	x	x		X			X								Y	N

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**Jeff	Den Bleyker	Jacobs (Ch2M)	Hydro-dynamic modeling / hydrology	Mr. DenBleyker received broad support from the Steering Committee to serve as an ex officio member. He has a unique skill that will help integrate the various project components with one another.		X	X	X		X	X	X	X	X	X	X	X		Y	N
** To Be Discussed**																				