**GLEON Fellowship Program**

**Workshop 2 Goals and Pre-meeting preparation**

***Workshop 2 goals:***

1. Strengthen bonds for collaboration
2. Demonstrate team science ‘best practices’
3. Learn and demonstrate negotiation and conflict resolution skills
4. Learn and apply Bayesian Hierarchical Modeling to EPA NLA and Time series datasets
5. Make progress on Time and Space manuscripts
6. Detail plans for next 6-8 months, including online collaboration tools, student leadership rotation, goals for science collaborations, third workshop goals, and G15 meeting in Argentina

***Working group guidelines for pre-meeting preparation:***

Time and space groups should arrive at August workshop with

 -Draft of intro (lit review) and methods sections
-Preliminary figures and captions

 -Be prepared for group-function check in (see topics below)

At workshop, time and space groups will:

1) Discuss group functioning:

 -Overall, how has group been functioning? How can function be improved?

 -Leadership transition: who will act as ‘general contractor’ for next 3-6 months?

 -Authorship: discuss models for tiered authorship and ‘ability to commit’ for remainder of collaboration

 -Discuss group’s use of online collaboration tools- what works, what doesn’t, what changes should be made?

2) Work on research:
-Present intro, methods, and results on Monday evening
-Discuss and get feedback from whole group
-Iterate on figures/analysis as needed
-Build results section with paragraph topic sentences from figure captions
-Brainstorm on discussion sections, begin draft
-Leave workshop with lead author(s) identified and timeline for progress

3) Share back with whole group:

 -Report back on progress at workshop, plans for science progress, leadership transition, and online collaboration

***Fellow’s individual guidelines for pre-meeting preparation:***

Bayesian activities (to be finalized by Shannon LaDeau and fellows involved in planning)

 -Read background on Bayes

 -Install Bayes software and run basic analysis

**Sunday 18 August:** Travel day to Madison, WI

6:30 pm Dinner on State Street

7:30 pm Free-time/ informal social at Union South

**Monday 19 August**

7:30-8:20 am Breakfast at Union South

8:30 am sharp Depart by car for UW Trout Lake Station

12:30-1:00 pm Arrive TLS and unpack

1:00-2:00 pm Lunch at TLS

2:00-3:00 pm **Introduction to Workshop 2 by Leadership Team**

3:00-4:00pm **Leadership training topic: Negotiation and conflict resolution** (Emily Read)

4:00-6:00 pm **Time-series and Space groups’ presentation and whole group discussion with Jon Cole**

6:30 pm Dinner at TLS

7:30 pm **Continued discussion about research projects**

**Tuesday 20 August**

7:30-8:30 am Breakfast at TLS

9:00-12:30 pm **Introduction to Bayesian Hierarchical Modeling** (Shannon LaDeau)

12:30-2:00 pm Lunch, talk by Jordan Read on code re-use, model sharing, documentation

2:00-4:15 pm **BHM, continued** (Shannon LaDeau)

4:30-5:30 pm **Discussion: Negotiation and conflict resolution in practice**

5:30-6:30 pm Free time at TLS

6:30 pm Dinner at TLS; informal report back from Aline Jaimes (MSB PI meeting) and Emily Nodine (SciTS meeting)

7:30 pm Free time and ad-hoc topics:

 -G15

 -Code re-use, model sharing, documentation, and version management- application to fellowship program

**Wednesday 21 August**

7:30-8:30 am Breakfast

9:00-10:30 am **BHM wrap up** (report back on application to Time/Space datasets)

11:00-12:30 pm **Working group time**

12:30-2:00 pm Lunch, talk by Corinna Gries on Information Management

2:00-6:00 pm **Working group time, continued**

6:30 pm Dinner: Cookout with TLS Staff & Potluck

7:30 pm Free time

**Thursday 22 August**

7:30-8:30 am Breakfast

9:00-12:30pm **Working group time, continued**

12:30-1:30 pm Lunch, free time

1:30-2:30pm **Time and Space report backs** (Progress at workshop, plans for science progress, leadership transition, and any anticipated modifications to online collaboration)

2:30-5:30pm **Whole-group discussion and wrap-up**

 -FP roles and responsibilities: rotation of student leadership

 -Workshop 2 debrief

 -Planning and whole-group discussion on workshop 3 goals and activities

 -Complete workshop surveys

5:30-6:30pm Free time

6:30 pm Dinner off-station in Minocqua

**Friday 23 August**

7:30-8:20 am Breakfast

8:30 am Drive back to Madison and depart for home

2pm Arrive at MSN airport for departures

**Participants**

Jennie Brentrup, Miami University

Jonathan Cole, Cary Institute of Ecosystem Studies

Jessica Corman, Arizona State University

Hilary Dugan, University of Illinois at Chicago

Corinna Gries, University of Wisconsin, Madison

Amy Hetherington, Cornell University

Paul Hanson, University of Wisconsin, Madison

Grace Hong, University of Wisconsin, Madison

Aline Jaimes, University of Texas at El Paso

Shannon LaDeau, Cary Institute of Ecosystem Studies

Emily Nodine, Florida International University

Samantha Oliver, University of Wisconsin, Madison

Vijay Patil, University of Alaska, Fairbanks

Emily Read, Cary Institute of Ecosystem Studies

Jordan Read, United States Geological Survey

Ari Santoso, University of Waikato, New Zealand

Kathleen Weathers, Cary Institute of Ecosystem Studies

Grace Wilkinson, University of Virginia

Luke Winslow, University of Wisconsin, Madison

Kirsten Winters, Oregon State University

Richard Woolway, Center for Ecology and Hydrology, Lancaster University

Jake Zwart, University of Notre Dame

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