

**Notebooks  
Now**



**AGU**  
ADVANCING EARTH  
AND SPACE SCIENCE

# Welcome to the Notebooks Now! Hybrid Workshop!

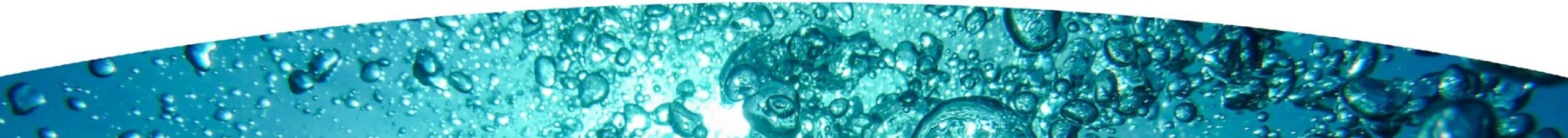
**Day 1: Thursday 3 November 2022, 9-4 EDT**

Day 2: Friday 4 November 2022, 9-3 EDT

# Welcome

*Shelley Stall, VP of Open Science Leadership (AGU)*

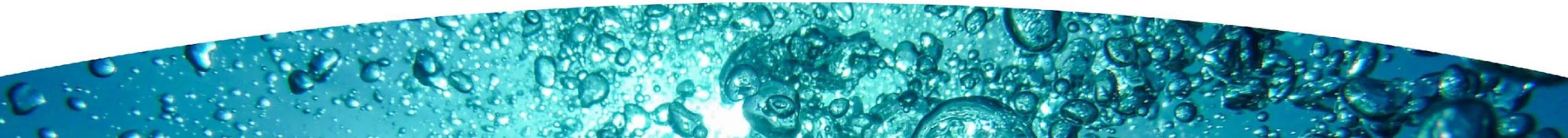
- Meeting Code of Conduct
- Objectives and Logistics
- Rules of Engagement



# Safety

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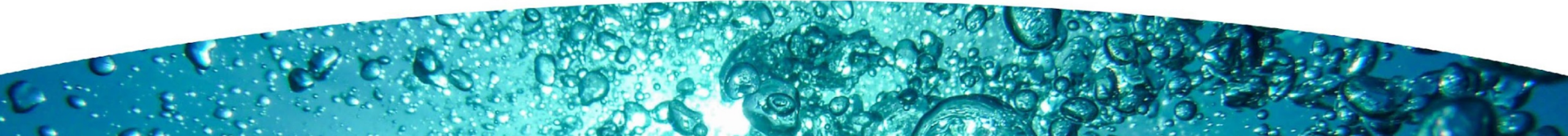
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# Meeting Code of Conduct

## Expected behavior

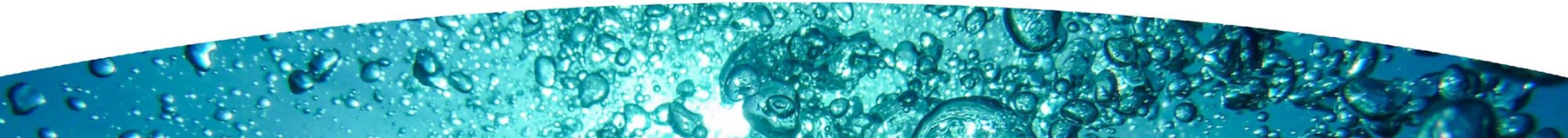
1. Treat everyone with respect.
2. Use good practices for intercultural collaborations.
3. Be mindful of your surroundings and of your fellow participants.
4. Provide your true professional identity and affiliation.
5. Respect copying and use of presented materials and ideas as indicated by AGU's Guidelines on Photography and Social Media, including knowing when you may need to obtain permission regarding copying materials.
6. Respect the rules and policies of AGU's meeting space, hotels, online platform, or any other related venue.
7. Be Accountable: When we as organizers or participants fail to meet these guidelines, work together to identify problems and adjust policy and practice together.



# Objectives

**Overall Objective: During this workshop, we hope to evolve a shared understanding of the challenges and gaps that act as barriers to publishing computational notebooks.**

- We will develop a common understanding of computational notebooks in a publishing workflow, incorporating perspectives across the community (researchers, publishers, open science experts, ...)
- We will examine pre-, during, and post-publication of computational notebook workstreams for gaps, challenges, and overlap.
- We will scope the work needed to identify solutions to these challenges and gaps, creating charters for each workstream and meeting schedules to continue the work.



# Logistics

Agenda: [https://docs.google.com/document/d/1lw5w\\_yZh3veHvgViJ-x8cCT4\\_8Ej4FmEEWkk\\_E2jXyE/edit](https://docs.google.com/document/d/1lw5w_yZh3veHvgViJ-x8cCT4_8Ej4FmEEWkk_E2jXyE/edit)

## DAY 1

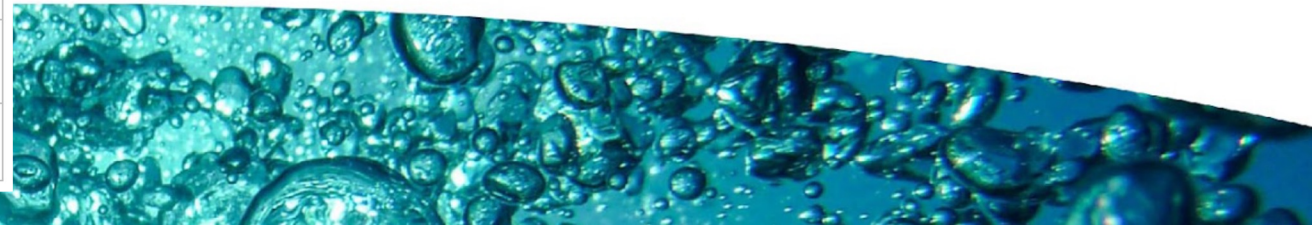
3 Nov

Time (EDT)	Agenda Item
<b>9:00am</b> 30 mins	<b>Welcome and Introduction</b> <i>Shelley Stall</i>
<b>9:30am</b> 45 mins	<b>Background and Perspectives: Implementing Computational Notebooks as a Format into the Publication Workflow (Part 1)</b> Steering committee members will present 15 minute talks.
<b>10:15am</b>	<b>15 minute Break</b>
<b>10:30am</b> 35 mins	<b>Background and Perspectives: Implementing Computational Notebooks as a Format into the Publication Workflow (Part 2)</b> Steering committee members will present 15 minute talks.
<b>11:05am</b>	<b>Discussion on Background and Perspectives Presentations</b> (30 min)
<b>11:35am</b>	<b>Breakout Instructions and Workstream Discussion</b> (25 min)
<b>12:00pm</b>	<b>Lunch</b>
<b>1:00pm</b> 90 mins	<b>Breakout 1: Workstream Charters</b>
<b>2:30pm</b> 15 mins	<b>Break</b>
<b>2:45pm</b> 75 mins	<b>Workstream Summaries and Discussion</b> Participants will report-out on their workstream discussions
<b>4:00pm</b>	<b>Adjourn / Reception</b> Please join us for an optional reception with light refreshments

## DAY 2

4 Nov

Time (EDT)	Agenda Item
<b>9:00am</b> 15 mins	<b>Day 1 Summary and Highlights</b> (Shelley)
<b>9:15am</b> 85 mins	<b>Lightning Talks on Notebooks Approaches, Services, and Workflows</b> Community experts will present 10 minute lightning talks.
<b>10:40am</b>	<b>Break</b>
<b>11:00am</b>	<b>Breakout 2: Workstream Charters</b> (Shelley)
<b>12:15pm</b> 60 mins	<b>Lunch</b>
<b>1:15pm</b> 75 mins	<b>Group Discussion on Workstream Charters</b>
<b>2:30pm</b> 30 mins	<b>Next Steps and Wrap-up</b>
<b>3:00pm</b>	<b>Adjourn</b>



# Rules of Engagement

## **Bring grace and understanding to your conversations with other attendees.**

- We're all here because we care about the end goal!

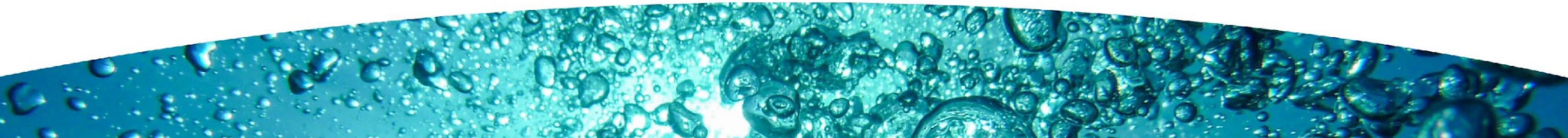
## **Avoid preconceptions; listen to the voices of those around you.**

*For instance:*

- “Existing publishing systems are too inflexible to incorporate new technologies and workstreams”
- “If it’s not completely open all the time, it’s not worth doing”

## **Anything else? Please tell us!**

Please raise your hand; you can also add to the Rules of Engagement section in the Agenda Notes.



# Implementing Computational Notebooks as a Format into the Publication Workflow (Part 1)

## *Background and Perspectives*

- **Teaching, Learning and researching with notebooks** - *Yanina Bellini Saibene*
- **Jupyter project, researcher use of notebooks, and community** - *Fernando Perez*
- **The happiest notebooks on Earth (R Markdown)** - *Alison Presmanes Hill*



# BREAK

See you in 15 minutes!

We'll return at 10:30 AM ET.

# Implementing Computational Notebooks as a Format into the Publication Workflow (Part 2)

## *Background and Perspectives*

- **Introduction** - *Brooks Hanson*
- **Peer review vendor workflow** - *Joel Plotkin (eJournalPress)*
- **Notebooks in publishing workflows**- *Alberto Pepe (Wiley)*

# DISCUSSION

*Background and Perspectives Presentations*

30 minutes

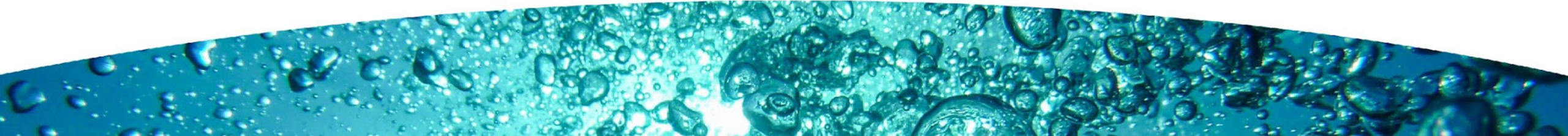
# Breakout Instructions and Workstream Discussions

- Instructions for breakout group work
- Presentation on project charters

# Introducing Workstreams

- **Pre-Submission** - Exploratory stage where early organizational approaches can help structure work in notebooks, to better prepare for publication submission.
- **Submission & Metadata** - Manuscript submission in structured format with associated data/software and where metadata are collected (e.g., author information, etc)
- **Editorial & Peer Review** - Conversion and extraction of manuscript (metadata) information. Facilitation and tracking of manuscript peer review.
- **Production & Post Production** - Dissemination, hosting, and preservation of final output (version of record)

Workstream Questions and Themes: [https://docs.google.com/document/d/1iBlSnLAoOybteTtS\\_OnMOIl-GMNWybAm/edit#](https://docs.google.com/document/d/1iBlSnLAoOybteTtS_OnMOIl-GMNWybAm/edit#)



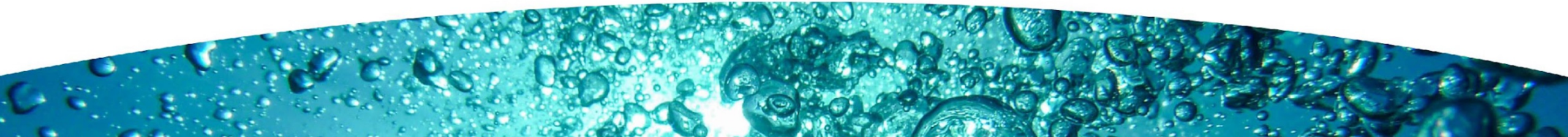
# Workstream Charters

The purpose of the charter is to define the known gaps, likely challenges, and pieces necessary to incorporate into each workstream and to identify stakeholders and groups that will play a role in answering these questions.

## Charter Elements

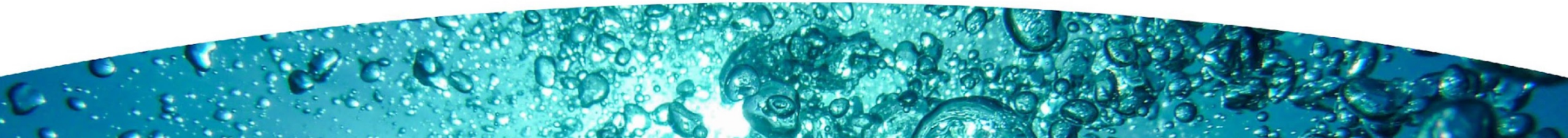
- **Purpose**
- **Workstream Focus Questions**
- **Working Group Meeting Schedule and Timeline**
- **Identified Deliverables**
- **Working Group Leadership (e.g. Co-Chairs) and Members**

By the end of day 1, we'd like each workstream to have a complete charter draft addressing these elements.



# Breakout Group Instructions

- Please choose a first workstream that's aligned with your interests and/or expertise. You will be able to join a 2nd, different workstream on day 2 or choose to focus on your original workstream.
- Each workstream will be facilitated by a Steering Committee member and an AGU staff member. We will be taking notes during each breakout group in a document shared with all of you; please feel free to add to our notes on the emerging themes, shared conversations and perspectives, and questions raised during each breakout group. Parking lot can be used for topics that can't be immediately addressed. **Please remember to fill in the charter.**
- Each breakout group will be hybrid; let's work together to facilitate conversations between online and in-person attendees. AGU staff will be monitoring the chat and flagging things as much as possible, but for those online, please unmute yourself and speak directly if you can.
- Please select the physical room or Zoom breakout room corresponding to your workstream.



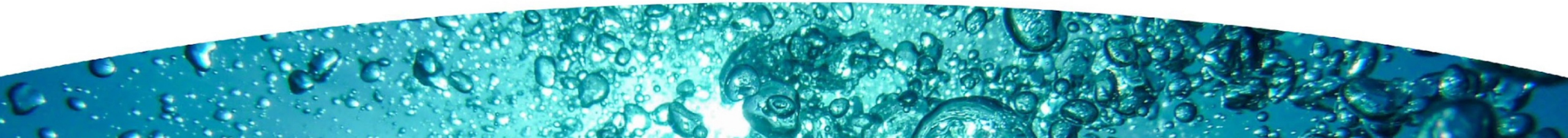
# Hybrid Breakout Rooms

**Pre-Submission** - Blue Marble (Downstairs)

**Submission & Metadata** - Third Rock (Downstairs)

**Editorial & Peer Review** - Prow (5th Floor - meet in lobby)

**Production & Post Production** - Mountain View (Upstairs, this room!)





# LUNCH

Lunch ends at 1:00 PM ET.

Please report directly to your hybrid breakout room after lunch.

**Pre-Submission** - Blue Marble (Downstairs)

**Submission & Metadata** - Third Rock (Downstairs)

**Editorial & Peer Review** - Prow (5th Floor - meet in lobby)

**Production & Post Production** - Mountain View (Upstairs, this room!)

# Workstream Summaries and Discussion

Participants report out on their workstream discussion.

# Thank you!

Day 2: Friday 4 November 2022, 9-3 EDT



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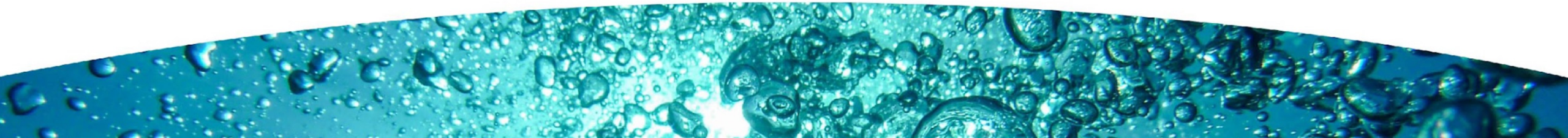
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**Day 2: Friday 4 November 2022, 9-3 EDT**

# Day 1 Summary and Highlights

*Shelley Stall, VP of Open Science Leadership (AGU)*



# Lightning Talks on Notebooks Approaches

- **Notebooks 4 Education** *Lorena Barba*
- **JupyterBook** *Chris Holdgraf*
- **rOpenSci** *Yanina Saibene and Karthik Ram*
- **Quarto** *JJ Allaire*
- **Curvenote** *Rowan Cockett*
- **Neurolibre/Notebooks (Peer Review)** *Jean-Baptiste Poline*

# BREAK

We'll return to our BREAKOUT 2 groups at 11:10 AM ET.

**Pre-Submission** - Blue Marble (Downstairs)

**Submission & Metadata** - Third Rock (Downstairs)

**Editorial & Peer Review** - Prow (5th Floor - meet in lobby)

**Production & Post Production** - Mountain View (Upstairs, this room!)

# LUNCH

*We will return in 60 minutes.*

Lunch ends at 1:15 PM ET.



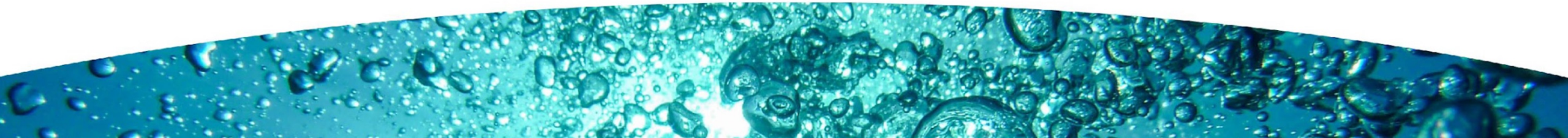
# Group Discussion on Workstream Charters

Participants report out on their workstream discussion.

Group will develop a schedule for coming months and identify relevant stakeholders.

# Next Steps and Wrap-up

*Shelley Stall, VP of Open Science Leadership (AGU)*



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**THANK YOU!**

*We appreciate your participation and we're looking forward to your input.*