

2021 PUNCH Outreach Annual Team Retreat
Working Agenda as of 5, November 2021
(Times listed below are Mountain Standard Time)
<https://www.thetimezoneconverter.com/>

MONDAY, 8 NOVEMBER, 2021:

10:45 - 11:00 AM MST Gathering time, informal chats

11:00 AM - 11:15 AM MST

- **Welcome and Introduction to the First Annual PUNCH Outreach Team Retreat**

Moderator & Presenter: Dr. Cherilynn Morrow, PUNCH Outreach Director, Consultant
Southwest Research Institute (SwRI)

Additional Presenters: Dr. Craig DeForest, PUNCH Principal Investigator, SwRI

Dr. John Keller, PUNCH Outreach Co-Director, Fiske Planetarium

Opening remarks to welcome, offer gratitude, and celebrate your participation in the first of five Annual PUNCH Outreach Retreats. The session provides overall context and background for the entire Retreat. Please complete your Participants' Workbook if you have not already. Your answers to these questions and 1-page PUNCH CVs will be included in our Participant Profile Book featuring all Outreach Team members.

11:15 AM - 11:45 AM MST

- **Land Acknowledgements & Introductions from All Partner Locations**

Facilitators: Jayne Aubele, NM Museum of Natural History & Science

Briana Ingermann, PUNCH Outreach Deputy Program Manager, Fiske
Planetarium

Each invited speaker offers their name, land name, and the names & faces of any other PUNCH Outreach teammates they represent before reading aloud an appropriate land acknowledgement statement. This session will also acknowledge land statements from team members in absentia.

11:45 AM – 12:05 PM MST

- **The PUNCH Outreach Plan - *REDUCED***

Presenter: Cherilynn Morrow, PUNCH Outreach Director

Whether a veteran or a newbie to the PUNCH Outreach Team, this presentation offers what you need to know to make sense of the rest of the Retreat agenda. The Reduced Shakespeare Company is a touring American acting troupe that performs fast-paced, seemingly improvisational condensations of huge topics. This presentation attempts to offer a comparable condensation of the PUNCH Outreach plan. Please explore the link and/or drop by the Lunch Time Chat Room to help fill in the details:

https://punch.space.swri.edu/punch_outreach_overview.php

12:05 PM – 12:45 PM MST

- **LUNCH BREAK, Informal Chat Room Open [12:10 - 12:40]**

Chat Room Host: Cherilynn Morrow

During the lunch break, Cherilynn is available from ~12:10 – 12:40 for informal interaction. Throughout the retreat, please be free to add Comments, Questions, or Ideas on the Overall POD Jamboard. On Tuesday and Wednesday additional PUNCH Outreach Leaders staff 3 chat rooms divided by our PUNCH Outreach Domains (PODs).

12:45 PM – 1:25 PM MST

- **Exploring the PUNCH Outreach Motto with Jamboard**

Facilitators: Cherilynn Morrow, Briana Ingermann, Nina Byers (PUNCH Outreach Consultant for Social & Emotional Learning)

*After a brief exercise in the joy of using Jamboards (an essential tool throughout the rest of the Retreat), we dive more deeply into the meaning and interpretation of our PUNCH Outreach motto: *Shining a Light on Diverse Views of the Sun with our Ancient & Modern Sun Watching Theme*. HINT: “Modern Sun Watching” is more than NASA exploration of the Sun: it includes any contemporary person who observes the Sun”*

1:25 PM – 1:30 PM MST

- **Short BREAK**

1:30 PM – 2:15 PM MST

- **Armchair Chat: Successful Cross-Cultural Collaboration in STEM (Case Study)**

Presenters: Joe Aragon, Acoma Pueblo, STEM Educator (retired)

Jayne Aubele (NM Museum of Natural History & Science)

Moderator: Cherilynn Morrow

JamBoard Managers: John Keller and Briana Ingermann

This session offers Retreat participants an opportunity to explore how Native youth and families can learn about NASA science while staying in touch with their cultural heritage. We have the opportunity to learn from an enduring friendship between professionals of different cultures who started out as strangers when they were first invited by NASA to collaborate on a Mars rover educational project ~18 years ago. Both presenters are key collaborators for PUNCH Outreach in the context of our Ancient & Modern Sun Watching theme and we have much to learn from them.

2:15 PM – 2:30 PM MST

- **BREAK**

2:30 PM – 3:45 PM MST

- **Outreach Messaging - Diving Deeper into Heliophysics with the PUNCH PI**

Presenters: Dr. Craig DeForest, Southwest Research Institute (SwRI), PUNCH PI

Moderator & Discussant: Cherilynn Morrow, PUNCH Outreach Director

JamBoard Managers: John Keller, Briana Ingerman, and Robert Bigelow

A great opportunity for direct contact with the PUNCH Principal Investigator (PI) as we engage with his trajectory from boyhood to PI, and also with the official key messages developed by NASA Heliophysics Communications for use in press releases and social media. Jamboards are used to record your questions about Heliophysics and your Outreach ideas for conveying PUNCH science to non-specialists in the context of our Ancient & Modern Sun Watching theme. The PUNCH web pages called [“What is Heliophysics?”](#) are designed for science outreach professionals to learn more about the basics of PUNCH science in a way that corresponds to the mission’s science objectives. [Dr. Nicki Viall’s outreach presentation](#) to the Night Sky Network also provides a great introduction.

3:45 PM – 4:00 PM MST

- **Announcements & Anticipation of Tomorrow and Reflections on Day**

Facilitator: Briana Ingermann

Video Presenter: Dr. Sanlyn Buxner, PUNCH Outreach Evaluator, Planetary Science Institute, Tucson, AZ

Development with Evaluation is a core principle of PUNCH Outreach. This includes the evaluation of the Annual Retreat. We'll have four more of these over the coming years, so please take time to reflect and give us your feedback on what's working well and what needs improvement!

4:00 PM MST

- **Adjourn for the Day**

TUESDAY, 9 NOVEMBER, 2021:

9:00 AM – 9:30 AM MST

- **Welcome Back! Team Photo, Announcements, Agenda Overview**

Facilitators: Cherilynn Morrow, John Keller, Briana Ingermann

Don't miss the team photo!!!

9:30 AM – 10:45 AM MST

- **Panel Session: Perspectives on Blind and Low Vision Learners (BLV) in STEM**

Panel Experts:

MaryKay Severino, ARISA Lab, Cambridge, MA

Lindsay Bartolone, NASA IMAP mission Outreach Lead, Princeton U.

Dave Dooling, NM Museum of Space History (in absentia Jeff Killebrew NMSBVI)

Tasnim Alshuli, VI graduate student in STEM, U. of Arizona

Dr. Tom Yeh, Department of Computer Science, ATLAS Institute, U. of Colorado

Nicole Johnson, ATLAS Institute, U. of Colorado

Moderator and Breakout Facilitator: Cherilynn Morrow

Additional Breakout Facilitators: John Keller, Briana Ingermann

Please be assured that the topic of this session intersects with the efforts of all PUNCH Outreach Domains (PODs) and offers the PUNCH Outreach Team an extraordinary opportunity to learn from a panel of professionals who have direct experience working with Blind and Low Vision (BLV) learners. Seek how this session can open you to new awareness about accessibility in your work, and how it should affect the development of all PUNCH Outreach projects and events.

10:45 AM – 11:00 AM MST

- **BREAK**

11:00 AM – 12:00 PM MST

- **Team Building with the Participants' Workbook**

Facilitators: Nina Byers and Briana Ingermann

In this light-hearted session, we'll have the opportunity to learn more about each other and work with the answers you provided in the Participants' Workbook.

12:00 PM – 1:00 PM MST

- **Lunch Break - Informal Chat Rooms Open hosted by Outreach Co-Directors
[12:10 - 12:50]**

On Tuesday & Wednesday PUNCH Outreach Co-Leaders staff three informal chat rooms divided by PODs. Please drop by to ask questions, offer ideas, or just hang out!

Informal Chat Room 1: PODs 1, 5, and 7: Events, Activities, and Tactile Development

Informal Chat Room 2: PODs 2 and 3: Scientist Engagement and Arts & Cross-Cultural Engagement

Informal Chat Room 3: PODs 4 and 6: Photography & Digital Interactives and Planetarium Films

1:00 PM – 1:45 PM MST

- **Sparking Creativity**

Facilitators: Thor Metzinger (Fiske Planetarium) and Briana Ingermann

In this light-hearted session, we'll explore a way to shift our perspectives and bring art and science together to support our PUNCH Outreach creative endeavors.

1:45 PM – 2:00 PM MST

- **Announcements, Anticipation of Tomorrow, Reflection on the Day**

Facilitator: Briana Ingermann (with Cherilynn Morrow & John Keller)

2:00 PM MST

- **Session Adjourns (reconvene at 4:00 PM MST)**

2:00 PM – 4:00 PM MST

- **BREAK**

4:00 PM – 5:00 PM MST

- **Multicultural Classroom Teacher Roundtable**

Roundtable Participants: Some of the teachers collaborating with PUNCH Outreach

Facilitators: Todd Gonzales and Deidre Hunter, Native American Astronomy Outreach Project, Lowell Observatory (NAAOP)

5:00 PM MST

- **Session Adjourns (reconvene at 7:00 PM MST)**

5:00 PM – 7:00 PM MST

- **BREAK**

7:00 PM – 8:00 PM MST

- **Navajo Astronomy and Navajo Relationship to the Sun**

Speaker: Verna Tallsalt, Navajo Culture & Language Consultant. Low Mountain, AZ

Moderator: Todd Gonzales, Education Director, Lowell Observatory

8:00 PM MST

- **Adjourn**

WEDNESDAY, 10 NOVEMBER 2021:

9:00 AM – 9:15 AM MST

- **Welcome Back! Photo of the Day, Announcements, Agenda Overview**

Facilitators: Cherilynn Morrow, John Keller, Briana Ingermann

9:15 AM – 10:30 AM MST

- **Armchair Chat: Deep Dive into Chaco Canyon with Ranger Cornucopia & Friends**

Special Presenters: GB Cornucopia, Chaco Ranger & Friends

Presenter & Moderator: Cherilynn Morrow

JamBoard Managers: John Keller, Briana Ingermann

This session is designed to excite your curiosity about Chaco Canyon – a World Heritage site in remote, northwestern New Mexico. There is world-wide evidence that all of us are descended from Sun-watching cultures. NASA exploration of the Sun can be regarded as an extension of humanity's long-lived dedication to observing the Sun's rhythms and mysteries. Chaco offers some of the world's most extraordinary evidence and opportunity for both ancient and contemporary, personal Sun watching. This is why it is a focal point for PUNCH Outreach products and events in collaboration with descendants of the people who lived there centuries ago.

10:30 AM - 10:45 AM MST

- **BREAK**

10:45 AM - 12:00 PM MST

- **PUNCH Outreach Photography, Visual Arts, and Digital Interactives**

Facilitators & Presenters:

Duke Johnson, Associate Director, Clark Planetarium, Salt Lake City UTAH

Nick Hoffman, Education Manager, Clark Planetarium, Salt Lake City UTAH

Cherilynn Morrow and GB Cornucopia

This session introduces you to the potential uses of some of the wonderful [photography collected in Chaco Canyon](#) this past summer in support of our Ancient & Modern Sun Watching theme. Duke reveals how these resources provide content for our planetarium films and our digital interactive lessons. Nick shows us the potential of “digital interactive lessons”. Duke also provides an introductory tutorial on how we can all use our mobile phones to collect dome-worthy imagery. GB and Cherilynn support a mindful and respectful engagement with these cultural resources which is vitally important, even in the virtual domain.

12:00 PM - 12:45 PM MST

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Informal Chat Room 1: PODs 1, 5, and 7: Events, Activities, and Tactile Objects

Informal Chat Room 2: PODs 2 and 3: Scientist Engagement and Arts & Cross-Cultural Engagement

Informal Chat Room 3: PODs 4 and 6: Photography & Digital Interactives and Planetarium Films

12:45 PM - 1:45 PM MST

- **Planning: What Do We Want to Accomplish by this Time Next Year? By the Eclipses?**

Moderator: John Keller

Breakout Facilitators: John Keller, Cherilynn Morrow, Briana Ingermann with other POD Leaders: Jayne Aubele, Dave Dooling, Jim Greenhouse (New Mexico Museum of Natural History), Duke Johnson, and Thor Metzinger.

This essential session provides a critical opportunity for us to deepen our awareness of the key PUNCH Outreach products & events and to firm up benchmarks for their development and implementation. You are invited to contribute and see how your institutional and individual efforts contribute to the big picture.

1:45 PM - 2:00 PM MST

- **CLOSING - Reflection on Today and the Entire Retreat**

Facilitators: Cherilynn Morrow, John Keller, Briana Ingermann

We raise a toast to celebrate and reflect on the end of our Annual Retreat.

2:00 PM MST

- **Adjourn**