**Zoom Chat – 11.5.2020**

10:43:58 From \*fac-Lee Gimpel : WELCOME TO DAY #2!

10:45:32 From \*fac-Lee Gimpel : Quick chat check … Where are you now? I am in DC.

10:45:45 From #18 - Terry Turton, LANL, she/her : Austin TX

10:45:52 From 8 - Thomas Britton - JLAB : Newport News VA

10:45:59 From Sarp Oral : Well, this is a nice a greetings… :)

10:46:10 From jana thayer : Redwood City, CA

10:46:19 From Veronica Rodriguez : Los Alamos, NM

10:46:27 From \*fac-Lee Gimpel : Good (early) morning @jana!

10:46:38 From Pete Beckman : I was not sure I was getting the right audio, until I saw some head bobbing :-)

10:46:39 From jana thayer : Good morning, all

10:46:56 From \*fac-Lee Gimpel : --------------------------HOW TO RENAME YOURSELF:Hover your mouse over your image.In the top-right corner, you should see a button to mute yourself and then three dots […]Click on the […]Then choose the option to rename yourself.Add your name and then other things you think are important such as pronouns. You might also want to add your focus or region.Add what group you want to be in from this list. Put the number in front of your name.https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharingFor example:2 - Mary Jones - Argonne - materials--------------------------

10:47:22 From \*fac-Lee Gimpel : --------------------------Change your name in your nametag with this doc https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharing--------------------------

10:47:32 From 8 - Thomas Britton - JLAB : for those of us in groups that were split up. Do you want the root number or the new number?

10:48:14 From \*fac-Lee Gimpel : @thomas, the \*new\* number

10:48:36 From \*fac-Lee Gimpel : I think 8 went to 17 and 18 or something

10:48:58 From MS - Angie Lester (ORISE) : 8 went to 8, 18, and 19. :)

10:49:05 From 19 - Thomas Britton - JLAB : Thanks...I went to 19 :) and have updated accordingly

10:56:56 From James Ang : You could say that the Postal service usage of airplanes is an example of Government being an early adopter of a new technology

10:57:31 From \*fac-Lee Gimpel : --------------------------HOW TO RENAME YOURSELF:Hover your mouse over your image.In the top-right corner, you should see a button to mute yourself and then three dots […]Click on the […]Then choose the option to rename yourself.Add your name and then other things you think are important such as pronouns. You might also want to add your focus or region.Add what group you want to be in from this list. Put the number in front of your name.https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharingFor example:2 - Mary Jones - Argonne - materials----------------------------------------------------Change your name in your nametag with this doc https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharing--------------------------

10:58:43 From \*fac-Lee Gimpel : --------------------------HOW TO RENAME YOURSELF:Hover your mouse over your image.In the top-right corner, you should see a button to mute yourself and then three dots […]Click on the […]Then choose the option to rename yourself.Add your name and then other things you think are important such as pronouns. You might also want to add your focus or region.Add what group you want to be in from this list. Put the number in front of your name.https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharingFor example:2 - Mary Jones - Argonne - materials----------------------------------------------------Change your name in your nametag with this doc https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharing--------------------------

11:07:17 From 11 - Scott Pakin - LANL : Could you please re-post the MeetingSphere link?

11:08:13 From #12 - Eli Dart (ESnet) : the gdoc has meetingsphere links for each session

11:08:16 From \*fac-Lee Gimpel : Meeting Sphere links should be in here as well - https://docs.google.com/document/d/1dJiksdldx8T-4v4ht5BatcgXIuHVaIvIKSKBpZDnQeA/edit?usp=sharing

11:08:42 From #11-Yasaman Ghadar-ALCF : Are the same as last time?

11:09:21 From #7 - Vas Vasiliadis - UChicago - Data Management : The agenda sent via email this morning shows a start time of 12:00pm ET; please confirm that those times are off by an hour

11:09:35 From 2-Ravi Madduri(ANL) Data Science and Deep Learning : They are, Vas.

11:09:36 From Kjiersten Fagnan (she/her) : Yes, that was a typo, Vas

11:09:48 From \*fac-Lee Gimpel : --------------------Session Roadmaphttps://www.dropbox.com/s/bkjuovsdladn23d/Session%20moderator%20roadmap%20-%2011-2-20.pdf?dl=0 ---------------------

11:10:24 From MS - Angie Lester (ORISE) : For Meetingsphere you will go the following URL BUT you will replace the one with your group number: https://orau.meetingsphere.com/futuremethods1

12:42:10 From \*fac-Lee Gimpel : -----------------Next session starts in 30 minutes:1:15p Eastern12:15p Central11:15a Mountain10:15a Pacific-----------------

12:42:42 From Kjiersten Fagnan (she/her) : Question from Slack - some groups may not have had the dots for voting, can ORISE help

12:42:44 From Kjiersten Fagnan (she/her) : ?

12:42:57 From 6 - Ben Gyori (Harvard Med School) : group 6 couldn’t find any dots

12:43:04 From MS - Angie Lester (ORISE) : Yes, we can turn that on.

12:43:21 From #8 - Shane Canon (LBNL, He/Him) : What we noticed was the votes couldn’t be placed on comments.

12:43:37 From #8 - Shane Canon (LBNL, He/Him) : So this threw us off a bit.

12:43:38 From 6 - Ben Gyori (Harvard Med School) : group 6: I can see the dots now, thanks!

12:44:22 From #8 - Shane Canon (LBNL, He/Him) : Are the moderators meeting?

12:46:03 From Kjiersten Fagnan (she/her) : @Shane, no

12:46:09 From Kjiersten Fagnan (she/her) : but that’s probably obvious now ;)

12:47:13 From MS - Angie Lester (ORISE) : There are lots of settings and options in MeetingSphere so we appreciate the feedback on what is helpful. We will add the capability to dot vote on comments for Session 4 this afternoon!

12:51:15 From #8 - Shane Canon (LBNL, He/Him) : Great… Thanks.

13:14:24 From 11 - Scott Pakin - LANL : Could someone please explain why some MeetingSphere comments show up in blue and some in black?

13:15:54 From #18 - Terry Turton, LANL, she/her : New ones are blue and eventually change to black when they become older. I think you have to take an action (any action) to show that you have read them

13:16:45 From 18 - Mike Hildreth (Notre Dame, HEP) : If you click on them to “read” them, they turn black.

13:16:46 From 11 - Scott Pakin - LANL : Thanks.

13:16:52 From Com - Ian Foster : Lee, we were sad not to have music after lunch :)

13:17:32 From \*fac-Lee Gimpel : -----------------Identify signpost plausibility and potential programs that need to be created/run-----------------

13:37:09 From Com - Ian Foster to \*Deneise Terry - ORISE(Privately) : Yasaman Ghadar 12:32 PM

If I want to see scores on Breakout 3, would that cause people not to be able to score on Breakout 4?

12:32 @Ian Foster New Jini Ramprakash

12:34 PM Can we get a vote count in breakout room #6?

13:46:34 From \*Deneise Terry - ORISE to Com - Ian Foster(Privately) : I have someone in room 6 to help. and also room 11 to assist Yasaman

15:02:02 From \*fac-Lee Gimpel : -----------------What did you find interesting or inspiring today?-----------------

15:02:42 From 2 - Deep Medhi (NSF) : the music:)

15:03:55 From 13 - Katerina Antypas : I kept looking for the tab on my browser that was playing music…

15:05:53 From 7 - Darrell Long : Funding for preserving the data must survive the funding for the project (and probably the funding agency).

15:05:53 From 6 - James Fairbanks (GT) : All the great discussions without people pushing their personal research interest as the answer to the world's problems.

15:05:53 From 19 - Thomas Britton - JLAB : need to restructure incentives/recognition to foster AI development so AI can become a colleague to scientists as they shift to fundamental theory as opposed to the phenomenological

15:05:53 From #4 - Laurie Stephey : We’ll need strong policy to provide a backbone for all the collective infrastructure our vision will require

15:05:53 From 4 - Eric Lancon - BNL : Hypothesis generation & AI

15:05:53 From 2 - Carlos X Soto (BNL) : almost as much discussion about policy as technicals

15:05:53 From 13 - Katerina Antypas : surprising consensus on our 30 year vision

15:05:53 From 4 + com - Nicola Ferrier (ANL/Computer Scientist) : Not inspiring but true: Woodpeckers make a lot of noise.

15:05:53 From 19-Stuart Gluck (AAAS Fellow DOE SC) : the future methodologies need to be domain specific to areas of science

15:05:53 From #19 - Shane Canon (LBNL, He/Him) : As predictive models become more routine we need better ways to communicate their precision and limitations both for the experts and non-experts (case in point see our election prediction models).

15:05:53 From 10 Hal Finkel : There is significant overlap between how people think about the future of big-data tech and how people think about future-hardware requirements.

15:05:53 From #16-William D Gropp : Office of Transformative Science

15:05:53 From 4 - Kerstin Kleese van Dam - BNL - Computing/Large Scale Facilit : The ability to exchange hypothesis and thoughts with a computer is the turning point to be able to go from evolving today’s facilities to move to the ‘airplane’ of the future

15:05:53 From 19 - Kate Evans - ORNL : The positivity and open minded nature of all the participants

15:05:53 From 16 - Peer-Timo Bremer : Integrating with social scientists that know about group dynamics might be key to restructure the science culture

15:05:53 From 6 - Heather Gray (she/her) (UC Berkeley/LBNL, particle physics) : Different visions towards the future. Do we want the AI to be a scientist? Or are we trying to develop a scientific assistant and keep humans in control?

15:05:53 From 16 - Yatish Kumar ( ESnet ) : Pure science and math are strong and valued in DOE.

15:05:53 From 2 - Chin Guok (ESnet) : gDoc is awesome!

15:05:53 From 13 - Jana Thayer - SLAC - LCLS : Similar ideas are resonating and it’s exciting to think what research will look like in 30 years

15:05:53 From #18 - Terry Turton, LANL, she/her : Our group is very consensus building. So as a unconference virtual concept, this is a very positive experience.

15:05:53 From 4 - Malin Young : Loved an idea from group 4 - establishing a collaborative of self-driving facilities operating as the experimental equivalent of the "cloud"

15:05:53 From 13 Sash Hier-Majumder, ASCR (he/his) : New facilities aimed at synchronized growth of user facilities and computing/network facilities

15:05:53 From 18 - Ilkay Altintas (UC San Diego) : The conversation on self controlling facilities was fascinating.

15:05:53 From #12 - Eli Dart (ESnet) : DOE DATA FACILITY

15:05:53 From 6- Ewa Deelman (USC) : I liked the discussions we had around AI explainability, how deep do you/can you go to be useful

15:05:54 From #4-Arjun Shankar (ORNL) : Need traffic cops who are also chefs in the facility.

15:05:54 From #6 - Jini Ramprakash (ANL) (she/her) : The thing I found interesting/inspiring/exciting about today is the various different possible future scenarios with AI in science…

15:05:54 From 18 - James Ang - PNNL : Support for multi-disciplinary proposal review teams to break down experimental/computational/data science cultural barriers!

15:05:54 From #5-Brandi Brown (LANL) : The ability/ freedom for everyone to share thoughts, especially on tough/ controversial topics.

15:05:54 From 4 - dantongyu : Work force development in Self-driving facility need to serve reengaging seniors/under represented communities.

15:05:54 From #11-Yasaman Ghadar-ALCF : The discussion in group 11 shaped very well and I enjoyed the discussion.

15:05:54 From 5 - Joshua A Levine (UArizona) : Workforce development is hard =)

15:05:54 From 4 - Raj Kettimuthu : thinking along with fellow researchers on future tech

15:05:54 From 6 - Mark Hereld (ANL) : TIL: we continue to bump up against the trivial shortcomings of the tech we use to collaborate and perform our work

15:05:55 From #15-Veronica Rodriguez-LANL : the idea of tenured national lab scientists

15:05:55 From 11 - Prasanna Balaprakash (ANL) : Hardware-specific AI/ML co-design and tools

15:05:56 From #2 - Nathan Urban (BNL) : Discussion of underlying sociological issues of how to structure DOE scientific approach, not just technical methods.

15:05:56 From 2 - Michael Papka (ANL) : Not all about technology

15:05:57 From 11 - Katie Schuman (ORNL) : Excitement over future computing technologies!

15:05:58 From #4 - Tekin Bicer - ANL - Computer Scientist : the layers of the problem we are tackling (autonomous facilities) and the complexities each layer involve.

15:05:58 From 2 - Deep Medhi (NSF) : you guys are really creative!

15:05:58 From 6 - Ben Gyori (Harvard Med School) : was very exciting to see multiple visions for the increasingly sophisticated stages of AI making scientific contributions

15:05:59 From 15-Karin Rodland : The need for succession planning in large multi-disciplinary projects - ramping down the old and ramping up the new

15:06:18 From 6 - John Bachman - Harvard - Systems Bio : Thinking about the evolution of the AI scientist and the ways in which decisions made now will shape attribution, accessibility, accountability, and incentives around these technologies

15:07:32 From \*fac-Lee Gimpel : -----------------What did you find interesting or inspiring today?1-2 minutes each to shareOpen discussion with time left-----------------

15:20:14 From #19 - Shane Canon (LBNL, He/Him) : brb

15:20:18 From 7 - Darrell Long : In the bonny halls of Bedlam,

 Ere I was one-and-twenty,

 I had bracelets strong, sweet whips ding-dong,

 And prayer and fasting plenty

 Now I do sing, “Any food, any feeding,

 Feeding, drink or clothing?

 Come dame, or maid, be not afraid,

 Poor Tom will injure nothing.”

15:20:21 From #6 - Jini Ramprakash (ANL) (she/her) : As opposed to using the force

15:21:19 From #5-Brandi Brown (LANL) : you can send ideas to me- Brandi Brown (group 5)

15:21:24 From 16-Pete Beckman : A workforce Plane?

15:21:34 From 16-Pete Beckman : Or Plain Workforce?

15:21:44 From #5-Brandi Brown (LANL) : workforce plane\*

15:22:10 From Com - Ian Foster : Workforce development: How do we ensure that the labs attract and empower the best of all 100% of US population

15:23:00 From \*fac-Lee Gimpel : -----------------Feedback on the dayhttps://orau.meetingsphere.com/futuremethodsmain-----------------

15:25:27 From #19 - Kari Heffner (Jefferson Lab) : a lot of information has been thrown my way, so I might have missed it... but did we get exported data from all the sessions? maybe we decided not to do that?

15:26:05 From Com - Ian Foster : Inspired by our hallway conversation: A “babel fish” that allows people from different disciplines to communicate as easily as with colleagues in their own discipline. Recognizing that this is not a question of translating words but mapping between concepts