

11:54:02 From Carol Wickstrom : Hi, all! Good to "see" you! This is Leslie Patterson in Texas.

11:54:23 From shawna vivant : I'm so excited about this webinar!!!

11:54:36 From Carol Wickstrom : Trying to figure out how to change my sign in. . . .

11:54:57 From Mary : Welcome all - please use the chat to say hello to each other, and chose the "all panelists and attendees" option to chat with all, not just Royce, Glenda, and me :)

11:55:07 From Carol Wickstrom : I have no picture . . . :-(

11:55:21 From Glenda : Hello.

11:55:40 From Carol Wickstrom : I can see you fine. No worries. I'll just be Carol this time . . .

11:56:27 From Carol Wickstrom : Chat, Raise Hand, Q&A. He-he-he

11:56:50 From Stewart Mennin to All panelists : this is different- hi

11:56:57 From Royce to Hoffie Conradie, All Panelists : Greetings, Hoffie. It's great to see ya here

11:57:12 From OSCAR : Hello!This is oscar from Bujumbura burundi.

11:57:17 From ammanuel melles to All panelists : glad to see you mon ami

11:57:27 From Mary : Welcome all - please use the chat to say hello to each other, and chose the "all panelists and attendees" option to chat with all, not just Royce, Glenda, and me :)

11:57:48 From Stewart Mennin : Hi, Stewart from Sao Paulo

11:57:49 From Hoffie Conradie : Hello, good to hear and see you!

11:58:11 From ammanuel melles to All panelists : great to be here...this is like a family for me

11:58:29 From Claudy : Good morning from Kelonwa, BC

11:58:32 From Stewart Mennin : Hi Hoffie,

11:58:32 From OSCAR : Yes I am

11:58:41 From Mary T : Greetings from St. Paul, MN

11:58:57 From OSCAR : Yes

11:59:04 From Stewart Mennin : This new arrangement let's me eat lunch during the meeting, thanks

11:59:41 From Stephen Bosacker to All panelists : Good morning ladies!

12:00:19 From Mary : Welcome all - please use the chat to say hello to each other, and chose the "all panelists and attendees" option to chat with all, not just Royce, Glenda, and me :)

12:00:47 From Stephen Bosacker : Greetings everyone from Minnesota!

12:00:50 From Royce to Stephen Bosacker, All Panelists : Welcome, Stephen. Good to see you here

12:01:20 From joanne : Hello from Yellow Springs, Ohio!

12:05:08 From Stewart Mennin : Interesting languaging: body of knowledge; knowledge as embodied

12:06:32 From Mary : yes, I have been thinking about that, Stewart, as the space between knowledge and action

12:07:56 From Stewart Mennin : wondering about methods, i.e, benefits and tyranny of methods

12:08:21 From Royce : yep, Stewart, that's where she's going.

12:10:35 From Stewart Mennin : My experience in research is with a high degree of uncertainty about accepting status quo, we seek to

validate or to challenge the status quo. At the edge of understanding, we seek to challenge understanding or look for it- both of which have a high degree of uncertainty and predictability in the traditional research paradigm. So these two aspects are a little fuzzier than the others.

12:11:16 From Olga Yiannakis : Thanks for sharing this - I'm thinking where could I play with interdependent pairs with this .. i.e. not only applicable to research ...

12:12:35 From Royce : That's a great insight, Olga. Useful in many areas.

12:13:41 From Olga Yiannakis : I'm thinking about a current sticky issue & it's already helping ;)

12:14:06 From Royce : cool, Olga

12:14:56 From ammanuel melles to All panelists : can you speak to ethics in the context of complexity research?

12:16:36 From OSCAR : Is complexity a choice in research or it imposes by itself?

12:16:45 From shawna vivant : I want to affirm that research in a CAS can be seen as a new epistemology?

12:17:35 From Olga Yiannakis : Simple Rules for Research

12:18:03 From Stewart Mennin : ethics review is usually about do no harm to subjects, humans, animals, etc.

12:18:05 From Stephen Bosacker : Perhaps research in CAS requires a broader epistemology... In that traditional research "ignores" complexity and therefore the knowledge of complexity is not "known".

12:18:24 From shawna vivant : I just went through the IRB experience and you're right, Glenda! It's a tricky dance.

12:18:29 From brenda : I am interested in the answers to Oscar and shawna

12:20:02 From Stephen Bosacker : Early in the 1900's Lady Balfour conducted farming systems research that broke the traditional research paradigm. The results were impressive, but most scientists rejected it as invalid.

12:21:21 From Janice Fingler : need to be aware of power structures emerging in the research realm. HSD can help surface those.

12:22:42 From Royce : @Janice. Can you say more about that?

12:23:42 From Mary : Just a reminder - some great questions are coming through to panelists only. Others may want to build on your questions so we invite you to choose "all panelists and attendees" when sharing here in the chat box if possible

12:23:49 From Royce to brenda, All Panelists : Brenda, I am not sure there will be more here. But I can ask what she might offer beyond what she's said. thanks.

12:23:57 From François to All panelists : lack of generalizability will also decrease your chance of raising funding

12:24:10 From marcianation : I have had success in working with IRB for approvals on more emergent research where we didn't know at the very beginning exactly everything that we were going to do. We talked with IRB at the beginning and got the language that they wanted to put in the initial application. We continue to modify the IRB over time as

new research questions emerge. IRBs are working to make their processes easier to complete through online forms. That has made modifications of the IRB much easier.

12:25:24 From Stewart Mennin : I agree with Marcianation- it works to ask the IRB to come up with language that works for them and to also modify the membership of the board for CAS reviews

12:26:21 From Stewart Mennin : Funding is also biased toward scaling up and replication. CAS don't fit this as they are at scale

12:29:02 From François to All panelists : @Stewart: is "scaling up" a valid option for any CAS? I have serious doubts

12:29:47 From Stephen Bosacker : What you are describing applies to the public education sphere. Replicability is really hard to achieve with schools because of CAS. When justifying a school program to the department of education we must show research proven practices. But my experience has been that unless a school reproduces the structures and practices pertinent to a program they will get very different results.

12:30:07 From Janice Fingler : Project management systems are often designed and deployed for reliability and are a mismatch for projects that have a lot of uncertainty involved. Few are considering designing PM approaches that are fit for purpose and fit for context. Result is quick descent from enthusiasm, best intentions among researchers and complex research partnerships to fighting and power plays that a complexity based PM approach could otherwise have facilitated.

12:30:50 From Carol Wickstrom : The need for cultural responsiveness, for example indigenous research suggests another critical issue that demands that we acknowledge complexity

12:30:57 From Wendy Morris : I'm increasingly seeing artists, whose practice is inherently about exploring complex ideas, collaborating with academic researchers in very different disciplines - which is disrupting assumptions about what constitutes research.

12:31:15 From Stewart Mennin : It's also tricky when presenting and publishing results from CAS-oriented research- what to say, how to say it so that it can be best received

12:31:49 From Janice Fingler : Yes Stewart - how to meet people where they are ?

12:32:57 From Stewart Mennin : Is zooming in to a focal sticky issue, is the difference between a wicked problem and sticky issue?

12:34:22 From Janice Fingler : Has me thinking about the importance of research portfolios - multiple experiments.

12:34:34 From marcianation : I am not an Agile project manager nor have I used Scrum, but I understand that Scrum addresses some of the project management needs for projects involving complexity.

12:34:42 From Janice Fingler : We don't always reflect on them together.

12:35:53 From Stewart Mennin : thank you, clear distinction and answer

12:38:24 From Mary : we have folks joining at different times (and they cannot see previous messages so I am repeating this request) - please choose "all panelists and attendees" when asking questions here in chat so that all can see and consider your perspective

12:38:44 From shawna vivant : Agile projects work like a CAS....SCRUM masters must hold project dynamics lightly as things change constantly.

12:38:55 From Olga Yiannakis : Scrum is simple to understand & difficult to master ... It's more successful than traditional project management, but there is definitely more to understand how complexity & systems work to navigate the organisational challenges

12:40:06 From shawna vivant : Olga, my experience has been just the opposite. Scrum is almost intuitive for me as it replicates CAS dynamics so clearly.

12:40:39 From brenda : "the more specialized the language the more distorted the reality". please explain

12:40:39 From Stewart Mennin : SCRUM????

12:40:53 From shawna vivant : SCRUM is an agile form of project management

12:41:06 From Stewart Mennin : please say more...

12:41:45 From Olga Yiannakis : Scrum or even traditional project management is not enough ... the richness of HSD helps with understanding the organisation as a whole complex system.

12:42:00 From shawna vivant : Scrum is a framework for project management that emphasizes teamwork, accountability and iterative progress toward a well-defined goal. ... The three pillars of Scrum are transparency, inspection and adaptation. \

12:42:07 From Janice Fingler : Yes, Marciana - however, with Scrum - design and development is done over review cycle called "Sprints" - like 2 weeks. Holding time is one boundary but others apply to other CAS research. So while scrum and agile as designed for the environment of software development can be effective - I find it doesn't always fit in other contexts.

12:43:27 From Janice Fingler : I prefer to apply adaptive action for front end "triage" to understand current understanding of our starting point.

12:44:11 From shawna vivant : I work in a IT project management field. There are traditional waterfall framework and then there are projects that work well as an agile one. You're right Janice, it really depends on the project.

12:44:51 From Carol Wickstrom : These features of research seem coherent with ethnographic approaches and qualitative analyses. . . so there are appropriate methods available. Right?

12:45:17 From shawna vivant : yes!

12:47:28 From Janice Fingler : Does applied research naturally evolve to the pure via praxis ?

12:47:39 From Carol Wickstrom : This reminds me of n "old" article by Patti Lather - maybe 1988- "Research As Praxis" ... a critical, community-based, participatory approach . . .

12:48:04 From Stewart Mennin : it is the interesection of practice and theory in western traditions that was the tipping point as a phase shift-- i.e., to know is to do and not separated into pure and applied research. Praxis will be the new paradigm

12:49:38 From Wendy Morris : I'm wondering whether, in an embodied

epistemology, perhaps the practice leads the theory which then evolves the practice...

12:49:56 From Royce to ammanuel melles, All Panelists : yes, what is the praxis...not just because I want to look at it...good point.

12:50:16 From shawna vivant : great question Wendy!

12:50:57 From Carol Wickstrom : Thanks for emphasizing this praxis connection. A colleague and I are considering the phrase "praxis-oriented research" rather than "action research" – because of the more explicit integration of theory that we sometime (often) miss in "action research"

12:51:03 From Royce : @wendy, that makes sense. Ideally we can move either direction...If we are paying attention from that perspective.

12:51:35 From Stephen Bosacker : I like praxis-oriented research! Thanks.

12:51:49 From Carol Wickstrom : I think that is a great way to talk about praxis, Wendy!

12:52:38 From Stewart Mennin : This dialogue is brilliant. How about we change problem-based learning to Praxis-based learning, in which the X can be Praxis and the X in compleXity

12:52:50 From Stewart Mennin : changing

12:52:50 From François to All panelists : so praxis is more the generative Exchange than copy-paste application

12:53:06 From Stewart Mennin : PXBL

12:53:28 From marcianation : Program replication – how does this sit with interpretation? Funders have often asked grantees to provide evidence around scalability and replication.

12:53:37 From OSCAR : Does interpretation means various application?

12:53:43 From Olga Yiannakis : <https://www.hsdinstitute.org/resources/mm-learning-triangle.html>

12:53:48 From Janice Fingler : As mineral explorers, geologists move in both directions to gain knowledge that helps us vector towards concentrations of metals that result from interactions of some key natural features. We are seeking patterns of evidence to guide where we walk on the ground everyday.

12:54:25 From Royce : Olga, thanks for posting that for me. I was wondering when I would be able to get to that...thanks for having my back!

12:54:32 From Janice Fingler : Love that ! No researcher is an island....

12:54:38 From Wendy Morris : Etuaptmumk or "two-eyed seeing" which Elder Albert Marshall defines Etuaptmumk as Learning to see from one eye with the strengths of Indigenous Knowledges and ways of knowing, and from the other eye with the strengths of Western knowledges and ways of knowing ... and learning to use both these eyes together, for the benefit of all.

12:54:57 From Olga Yiannakis : Pleasure Royce ;)

12:56:14 From Royce : @Marcianation, we have a different way of thinking about that...It's more about the expectations that feed local action, rather than specifics of the "programs" Using simple rules, or the questions of about the context or other ways of shifting and

spreading the difference in actino.

12:56:15 From Carol Wickstrom : Thanks, Wendy!

12:56:36 From Stewart Mennin : @Wendy- wonderful

12:59:29 From Janice Fingler : Proven in demonstration sounds like how we need to communicate research to make it accessible.

12:59:56 From Janice Fingler : connecting to adult learning principles @Royce ?

13:00:35 From marcianation : Like what Glenda said about evaluation:)

13:00:38 From Royce : You bet Janice. How can we keep use to change praxis of adult learning!!! Constant AA cycles.

13:01:46 From Stewart Mennin : Absolutely beautiful synthesis and imagining of Research in new paradigm, thank you

13:01:55 From Janice Fingler : I've only recently learned about the profession of "Evaluators" and find it interesting that it has many similarities to mineral exploration. Yes evolved differently maybe !

13:02:07 From Royce : Are there topics you would like to see in a Live virtual workshop?

13:02:16 From Olga Yiannakis : Thank you for an informative session & to everyone for their inputs.

13:02:16 From ammanuel melles to All panelists : thanks Glenda, Royce and Mary!

13:02:18 From Tirzah McPherson Lewis : Thank you

13:02:21 From Janice Fingler : Amazing

13:02:24 From OSCAR : Thanks Glenda!

13:02:25 From Wendy Morris : Thank you!

13:02:27 From Stephen Bosacker : Thank you! Very helpful ideas and directions to develop!

13:02:39 From brenda : thanks. I feel inspired!!

13:02:45 From Carol Wickstrom : Thanx a bunch to all! And to G, R, and M!

13:02:46 From Olga Yiannakis : Love Royce & Glenda!

13:02:51 From joanne : Thanks - got me thinking differently!

13:03:16 From marcianation : Love the idea of mineral exploration and evaluation! Have not thought about that, but I love collecting rocks and minerals!

13:03:17 From Wendy Morris : I'm excited to share this with my daughter

13:03:33 From Wendy Morris : Daughter's university who are wrestling with capstone research in complexity spaces

13:04:03 From Olga Yiannakis : Thank you & bye all!

13:04:35 From Stewart Mennin : Yes, a distributable copy will be great,