Cyberlearning 2019:
Exploring Contradictions in Achieving Equitable Futures

October 3 - 4, 2019 • Alexandria, VA

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CIRCL
Center for Innovative Research in Cyberlearning
Cyberlearning 2019:
Exploring Contradictions in Achieving Equitable Futures

October 3–4, 2019  |  Alexandria, VA

#NSFCL19  |  circlcenter.org  |  @circlcenter

Pre-meeting day - Wednesday, October 2nd
5:00 – 7:00 pm: Optional early registration (Pre-function, second floor)
6:00 pm: Networking dinners at local restaurants (self-pay), meet at CL’19 registration

<table>
<thead>
<tr>
<th>Meeting Website</th>
<th><a href="https://circlcenter.org/events/cyberlearning-2019">https://circlcenter.org/events/cyberlearning-2019</a></th>
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<tbody>
<tr>
<td>Webcast Registration</td>
<td><a href="https://go.edc.org/CL19">https://go.edc.org/CL19</a></td>
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<tr>
<td>Wireless Internet Access</td>
<td>Network: Westin Conference</td>
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<td>Password: CL2019</td>
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The Center for Innovative Research in Cyberlearning (CIRCL) works with projects in the emerging field of cyberlearning to support, synergize and amplify their efforts.

Website: circlcenter.org
Twitter: @CIRCLCenter
Facebook: facebook.com/CIRCLCenter
Email: circl@digitalpromise.org
Acknowledgments

MEETING CHAIRS

Cynthia D’Angelo (University of Illinois)
James Lester (North Carolina State University)
Tamara Clegg (University of Maryland)

CIRCL STAFF

Digital Promise
Jeremy Roschelle
Patricia Schank
Judith Fusco
Quinn Burke
Carly Chillmon

SRI International
Shari Gardner

Education Development Center
Sarita Pillai
Joyce Malyn-Smith
Wendy Martin
Melody Hachey
Sarah MacGillivray

NORC (Evaluator)
Michael Reynolds
Kevin Brown

The meeting chairs and CIRCL staff thank the program committee for the innovative ideas and thoughtful input that helped shape the agenda for this meeting.

PROGRAM COMMITTEE MEMBERS

Amar Abbott (Taft College)
Marcela Borge (Penn State)
Matthew Boyer (Clemson University)
Peter Brusilovsky (University of Pittsburgh)
Andres Henriquez (New York Hall of Science)
Steve Hickman (Riverside County Office of Education)
Christopher Hoadley (New York University)
Sherry Hsi (Concord Consortium)
Yanghee Kim (Northern Illinois University)
Erin Walker (University of Pittsburgh)
Marcelo Worsley (Northwestern University)
Nesra Yannier (Carnegie Mellon University)
# Agenda

**Thursday, October 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>7:30am</td>
<td>Ballroom</td>
<td>Registration and Breakfast</td>
</tr>
<tr>
<td>8:00</td>
<td>Ballroom</td>
<td>Welcoming Remarks from NSF and Program Overview</td>
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<tr>
<td></td>
<td></td>
<td>- Karen Marrongelle, Assistant Director, Education and Human Resources</td>
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<td></td>
<td></td>
<td>- Amy Baylor, Program Lead, Cyberlearning</td>
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<tr>
<td></td>
<td></td>
<td>- Jeremy Roschelle &amp; Sarita Pillai, CIRCL</td>
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<tr>
<td></td>
<td></td>
<td>- Cynthia D’Angelo, Tamara Clegg, and James Lester, Co-Chairs of</td>
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<tr>
<td></td>
<td></td>
<td>Cyberlearning 2019</td>
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<tr>
<td>8:30</td>
<td>Ballroom</td>
<td>Networking Activity</td>
</tr>
<tr>
<td>9:15</td>
<td>Ballroom</td>
<td>Roundtable Sessions</td>
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<tr>
<td></td>
<td></td>
<td>Learn about Cyberlearning Projects. Session descriptions and tickets can be found at the CL’19 registration desk.</td>
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<tr>
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<td>- Round 1: 9:15 - Groups meet at first presenter’s table.</td>
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<td>- Round 2: 9:45 - Groups move to second presenter’s table.</td>
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<tr>
<td>10:15</td>
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<td>Networking Break</td>
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<tr>
<td>10:45</td>
<td>Ballroom</td>
<td>Keynote</td>
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<tr>
<td></td>
<td></td>
<td>Mike Sharples: Theory-Informed Design of Cyberlearning at Scale</td>
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<tr>
<td>11:15</td>
<td>Ballroom</td>
<td>Keynote</td>
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<tr>
<td></td>
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<td>Safiya Umoja Noble: The Problems and Perils of Harnessing Big Data for Equity &amp; Justice</td>
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<tr>
<td>11:45</td>
<td>Ballroom</td>
<td>Orientation to Expertise Exchanges and Working Sessions</td>
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<tr>
<td>12:00pm</td>
<td>Ballroom</td>
<td>Lunch</td>
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<tr>
<td>1:00</td>
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<td>Expertise Exchange I - Learn something new from your colleagues.</td>
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<tr>
<td></td>
<td>Bonneker</td>
<td>Data Fluency in K-12 Education - Andee Rubin, Chad Dorsey</td>
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<td></td>
<td>Bell</td>
<td>Embodied Learning Technologies - Robb Lindgren, Akesha Horton,</td>
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<td>Francesco Cafaro, Devin Balkcom</td>
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<td></td>
<td>Edison E</td>
<td>Human Interfaces to Artificial Intelligence in Education - Peter Brusilovsky</td>
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<td>Edison F</td>
<td>NSF Big Idea: The Future of Work at the Human-Technology Frontier -</td>
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<td></td>
<td>Joyce Malyn-Smith, James Lester, Susan Yoon, Haoqi Zhang, Amy Baylor</td>
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<td>Edison G</td>
<td>Emotion &amp; Affect in Learning with Artificial Beings and Immersive VR -</td>
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<td>Yanghee Kim, Lin Lin</td>
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<td></td>
<td>Wright</td>
<td>Identity &amp; Learning: Opportunities and Tensions for Cyberlearning</td>
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<td>- Tamara Clegg, Yolanda Rankin, Britte Cheng</td>
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*Events in red will be recorded and webcast to the public.*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>2:30 PM</td>
<td>Networking Break</td>
</tr>
<tr>
<td>3:00 PM</td>
<td><strong>Working Sessions: Contradictions, Tensions, and Principles from NSF-funded Workshops</strong>  &lt;br&gt;Work together to advance our understanding of future challenges</td>
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<td></td>
<td><strong>Banneker</strong>  &lt;br&gt;Documenting Learning and Competencies across Settings and Longitudinally - Stephanie Teasley, Henry Kelly</td>
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<tr>
<td></td>
<td><strong>Bell</strong>  &lt;br&gt;Celebrate/Disrupt Cyberlearning - Jill Castek, Joyce Malyn-Smith, Laurie Campbell</td>
</tr>
<tr>
<td></td>
<td><strong>Edison E</strong>  &lt;br&gt;Towards a Framework for Interest-Driven Creators - Tak Wai Chan, Eric Hamilton, Jeremy Roschelle</td>
</tr>
<tr>
<td></td>
<td><strong>Edison F</strong>  &lt;br&gt;Rapid Community Reports: Accelerating Knowledge Sharing across Stakeholders - Quinn Burke, Carly Chillmon, Patti Schank</td>
</tr>
<tr>
<td></td>
<td><strong>Wright</strong>  &lt;br&gt;Design Principles for Accessible Cyberlearning - Sheryl Burgstahler, Lyla Crawford</td>
</tr>
<tr>
<td>4:45 PM</td>
<td>Networking Break and set-up for Gallery Walk</td>
</tr>
<tr>
<td>5:30 PM – 7:00 PM</td>
<td><strong>Pre-function</strong>  &lt;br&gt;Gallery Walk  &lt;br&gt;Demonstrations and posters with light refreshments</td>
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**Friday, October 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Ballroom</td>
<td>Breakfast and Networking</td>
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</tbody>
</table>
| 8:00   | Ballroom | **Welcome and Future Funding Possibilities**  
|        |          | o Henry Kautz, NSF Division of Information and Intelligent Systems  
|        |          | o Evan Heit, NSF Division of Research and Learning (DRL)  
|        |          | o Amy Baylor, NSF AI and Future of Work Initiatives  
|        |          | o Erin Higgins, IES National Center for Education Research  
|        |          | o Tony Beck, NIH National Institute of General Medical Sciences  
| 8:45   | Ballroom | **Engaging with Future Research Issues and Funding Opportunities**  
| 9:30   |          | Networking Break                           |
| 10:00  | Ballroom | **Keynote**  
|        |          | Angela Booker: Ethical Power Relations as an Act of Design  
| 10:30  | Ballroom | Legislative Visit Panel                    |
| 11:00  | Ballroom | **Reflections on Conference Theme**  
|        |          | CL’19 Co-Chairs Cynthia D’Angelo, Tamara Clegg, and James Lester  
| 11:30  | Ballroom | Orientation to Expertise Exchanges and Afternoon Sessions  
| 11:45  | Ballroom | Lunch                                      |
| 12:45pm|          | **Expertise Exchange II**                  |
|        | Banneker | **Computational Thinking** - Brian Magerko, Quinn Burke  
|        | Bell     | **Intelligent Tutors & Tools** - James Lester  
|        | Edison E | **Bringing Neuroscience into Cyberlearning** - Lorna Quandt, Ibrahim Dahlstrom-Hakki  
|        | Edison F | **Research in Learning Analytics and Educational Data Mining** - Sweet San Pedro, Marcelo Worsley  
|        | Wright   | Designing for Equity and Access - Maria Olivares, Jill Castek  
| 2:15   |          | Networking Break                           |
| 2:45   | Ballroom | **Prepare Bold Steps for Town Hall**  
|        |          | Discuss priority research questions, tensions, and controversies  
| 3:15   | Ballroom | **Future of Research on Advanced Learning with Technology**  
|        |          | A Town Hall Conversation with NSF Program Officers Amy Baylor & John Cherniavsky  
| 4:00   |          | Adjourn                                    |

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Keynote Speaker Bios

**Angela Booker** is an Associate Professor of Communication at UC San Diego. She studies democratic practice and new media use among youth and families. Her work addresses barriers that diminish access to public participation. She is a co-editor of Power and Privilege in the Learning Sciences.

**Safiya Noble** is an Associate Professor at UCLA, and is a visiting faculty member to the University of Southern California's Annenberg School of Communication. She is the author of a best-selling book on racist and sexist algorithmic bias in commercial search engines, *Algorithms of Oppression: How Search Engines Reinforce Racism* (NYU Press).

**Mike Sharples** is Emeritus Professor of Educational Technology in the Institute of Educational Technology at The Open University, UK. He is author of Practical Pedagogy: 20 New Ways to Teach and Learn and over 300 papers in the areas of educational technology, science education, human-centred design, artificial intelligence and cognitive science.
Cyberlearning 2019 Buddies

PIs of NSF Cyberlearning projects were given an opportunity to nominate a non-Principal Investigator “buddy” (such as an educator, postdoc, graduate student, or a leader at an institution that serves diverse learners) to jointly attend the meeting and enrich our deliberations. Interest in bringing a buddy was high, and selection was competitive. The Buddies accepted to attend Cyberlearning 2019 are:

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Institution</th>
<th>Nominated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ishrat Ahmed</td>
<td>Graduate Student</td>
<td>University of Pittsburgh</td>
<td>Erin Walker</td>
</tr>
<tr>
<td>Anna Amato</td>
<td>Graduate Student</td>
<td>New York University</td>
<td>Camillia Matuk</td>
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<tr>
<td>Joseph “Jake” Chipps</td>
<td>K-12 Teacher &amp; Graduate Student</td>
<td>Granada Hills Charter</td>
<td>Brian Foley</td>
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<tr>
<td>Lyla Crawford</td>
<td>Program Coordinator</td>
<td>University of Washington</td>
<td>Sheryl Burghstahler</td>
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<tr>
<td>Anne Fay</td>
<td>Upper School Director</td>
<td>Winchester Thurston School</td>
<td>Stephanie Teasley</td>
</tr>
<tr>
<td>Brian Guerrero</td>
<td>Graduate Student</td>
<td>University of Illinois</td>
<td>Robb Lindgren</td>
</tr>
<tr>
<td>Stephanie Jones</td>
<td>Graduate Student</td>
<td>Northwestern University</td>
<td>Marcelo Worsley</td>
</tr>
<tr>
<td>Leesha Maliakal</td>
<td>Graduate Student</td>
<td>Northwestern University</td>
<td>Haoqi Zhang</td>
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<tr>
<td>Jason Lamberton</td>
<td>HCI Engineer</td>
<td>Gallaudet University</td>
<td>Melissa Malzkuhn &amp; Lorna Quandt</td>
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<tr>
<td>Kathryn Lanouette</td>
<td>Postdoc</td>
<td>University of California, Berkeley</td>
<td>Michelle Wilkerson</td>
</tr>
<tr>
<td>Seung Lee</td>
<td>Graduate Student</td>
<td>Pepperdine University</td>
<td>Eric Hamilton</td>
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<tr>
<td>Cameron Merrill</td>
<td>Graduate Student</td>
<td>University of Illinois</td>
<td>Laura Shackelford</td>
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<tr>
<td>Anand Ramakrishnan</td>
<td>Graduate Student</td>
<td>Worcester Polytechnic Institute</td>
<td>Jacob Whitehill</td>
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<tr>
<td>Asmalina Saleh</td>
<td>Postdoc</td>
<td>Indiana University</td>
<td>Cindy Hmelo-Silver</td>
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<tr>
<td>Milka Trajkova</td>
<td>Graduate Student</td>
<td>Indiana University</td>
<td>Francesco Cafaro</td>
</tr>
<tr>
<td>Aditya Vishwanath</td>
<td>Graduate Student</td>
<td>Stanford University</td>
<td>Roy Pea</td>
</tr>
<tr>
<td>Abigail Zimmermann-</td>
<td>Graduate Student</td>
<td>University of Colorado Boulder</td>
<td>Ben Shapiro</td>
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</tbody>
</table>
[SESSION DETAILS]
Roundtable Session

The purpose of the roundtable session is to learn about cyberlearning-related research projects while engaging with peers. The session will last one hour, and will consist of two rounds of presentations and discussions.

How do the Roundtables work?
At each table, the presenter will take 12 minutes to speak about their cyberlearning-related research, and will then facilitate a discussion among the table participants for the remainder of the round. After 25 minutes, participants will transition to the second table they chose to hear from an additional presenter and engage in conversation with a second group of participants.

Roundtable session descriptions and tickets can be found at the CL’19 registration desk.

1. Would playing the African board game Songo result in a collection of literacies? - Rebecca Bayeck
2. UbiCoS: A Learning Environment for Supporting Help-Giving across Physical and Digital Contexts - Erin Walker
3. What Have We Learned About Complex System Simulations? - Andee Rubin
4. Orchestrating Communities of Practice to Advance Research Training - Haoqi Zhang
5. Towards Personally-Relevant Learning: Bridging In-School and Out-of-School Learning through Wearable Technologies - Sharon Lynn Chu
8. Learning Engineering: What it is, where it’s going, what it means for cyberlearning and the learning sciences, and how to get involved - Janet Kolodner
9. Accessible Cyberlearning Design - Sheryl Burgstahler and Lyla Crawford
10. Machine Perception to Model Classroom Dynamics - Jacob Whitehill and Anand Ramakrishnan
12. Integrating computer science in to science and math instruction - Brian Foley and Joseph Chipps
13. Incorporating Cyber Into Any Classroom - Chuck Gardner
14. Improving STEAM Learning with an Award-winning Mixed-reality System - Nesra Yannier
15. Hip Hop Making as Culturally Sustaining Learning in Computational Contexts - Eli Tucker-Raymond
16. Fair Play: Creating Accessible Educational Media for All Learners - Joan Freese
17. Evidence for Why a Backchannel Should be Required in Almost All First-Year Courses - Perry Samson
18. Co-creating Value to Address Contradictions in Implementation of Digitally Enhanced Pedagogy - Steve Hickman
20. Participatory Cyberlearning Design - Christopher Hoadley

For more details, see: http://circlcenter.org/events/cyberlearning-2019/roundtables/
**Expertise Exchanges**

The purpose of Expertise Exchange sessions is for leaders with some expertise in a topic to share information with community members who want to learn more about the topic, to provide a forum for participants to discuss how they might incorporate the topic into their work, and to broker connections between community members who are interested in a topic.

See below for titles, locations, and co-leaders of each Expertise Exchange session.

<table>
<thead>
<tr>
<th>Thursday, October 3</th>
<th>Friday, October 4</th>
</tr>
</thead>
</table>
| **Embodied Learning Technologies** *(Bell)*  
Robb Lindgren, Akesha Horton, Francesco Cafaro, Devin Balkcom | **Bringing Neuroscience into Cyberlearning** *(Edison E)*  
Lorna Quandt, Ibrahim Dahlstrom-Hakki, David Kraemer |
| **Emotion & Affect in Learning with Artificial Beings and Immersive VR** *(Edison G)*  
Yanghee Kim, Lin Lin | **Computational Thinking** *(Banneker)*  
Brian Magerko, Quinn Burke |
| **Data Fluency in K-12 Education** *(Banneker)*  
Andee Rubin, Chad Dorsey | **Designing for Equity and Access** *(Wright)*  
Maria Olives, Jill Castek |
| **Human Interfaces to Artificial Intelligence in Education** *(Edison E)*  
Peter Brusilovsky | **Intelligent Tutors & Tools** *(Bell)*  
James Lester |
| **Identity & Learning: Opportunities and Tensions for Cyberlearning** *(Wright)*  
Tamara Clegg, Yolanda Rankin, Britte Cheng | **Research in Learning Analytics and Educational Data Mining** *(Edison F)*  
Sweet San Pedro, Marcelo Worsley |
| **NSF Big Idea: The Future of Work at the Human-Technology Frontier** *(Edison F)*  
Joyce Malyn-Smith, James Lester, Susan Yoon, Haoqi Zhang, Amy Baylor |

Working Session

The purpose of the Working Session is to bring together groups of people to work on issues relating to the future of the cyberlearning community. The session provides opportunities for small group interactions to learn from each other and plan potential collaborative work.

This year the working session groups will focus on sharing ideas generated at a series of NSF-funded workshops led by Cyberlearning researchers over this past year, as well as one session that is geared toward participants who want to learn more about producing a primer, design reflection, or workshop outcomes report for the Rapid Community Reports Series (rapidcommunityreports.circlcenter.org). Working session topics and leaders are listed below.

Celebrate/Disrupt Cyberlearning (Bell)
Jill Castek, Joyce Malyn-Smith, Laurie O. Campbell

At a series of workshops that Cyberlearning researchers conducted over this past year, participants discussed the current and future landscape of Cyberlearning research. Considering insights and findings from cyberlearning workshops in 2019/2019, participants will work together to conceptualize today’s model of cyberlearning research. In this interactive session, participants will work together to build out a model where we surface aspects of celebrating/disrupting and build toward common understandings. Active, participatory discussions will be anchored in a basic model and provide jumping off points for potential new inputs, factors, insights, and challenges that might disrupt the working model. Essential questions include: (1) What drives commitments to cyberlearning? (2) What is worth celebrating in our field? (3) What patterns might we let go of? (4) How might disruption advance our work? The ensuing dialogue will serve to strengthen our collective cyberlearning work and develop action plans for future research, practice, and networking.

Documenting Learning and Competencies across Settings and Longitudinally (Banneker)
Stephanie Teasley, Henry Kelly

In our NSF funded workshop, we invited participants to think about whether universities are doing an effective job in providing prospective employers with graduates who have the capabilities and competencies needed for today’s job market or providing employers with useful measures of these capabilities (e.g. what graduates can do, not just what they know). Given that new technologies can bring some powerful new ways to measure competencies and provide new forms of credentials, a major goal of the workshop was to bring together scholars with expertise that has not yet been closely connected with learning research. Foremost among these were data scientists who have made dramatic contributions in other parts of the economy, and people in the business community who have made major investments in areas like “people analytics” and various methods for defining and measuring workplace competence. In this Cyberlearning Summit, we invite participants to reflect on how their research-- with learners of all ages-- is most likely to leverage new forms of data about learning and to harness modern data analytic tools to address three critical questions in learning: (1) How can we define the educational outcomes, competencies, and habits of mind that are goals for education? (2) How can these competencies be measured and communicated? (3) How can innovations in approaches to learning (technology & pedagogy) be evaluated?

For more details, see: http://circlcenter.org/events/cyberlearning-2019/working-sessions/
Design Principles for Accessible Cyberlearning *(Wright)*
Sheryl Burgstahler, Lyla Crawford

In this session we will explore principles and practices that can be applied to cyberlearning technology and pedagogy to make it inclusive of all faculty and students, including those with disabilities. The group will discuss promising practices in both research and implementation as well as the role of stakeholder groups in promoting inclusive practices. Working group leaders will share ideas generated at a series of workshops that cyberlearning researchers conducted over this past year and their corresponding white papers that include literature reviews and recommendations for future cyberlearning research and practice. Participants will summarize design principles for cyberlearning research and practice that were identified in these white papers. Taking a gap analysis approach, they will then discuss further accessible design principles, if any, that exist or should be created to inform future cyberlearning research and practice. Participants will work together to identify important issues for the cyberlearning community to address going forward. The group will plan potential collaborative work that may include producing a primer, design reflection, or workshop outcomes report for the Rapid Community Reports Series (rapidcommunityreports.cirlcenter.org).

Towards a Framework for Interest-Driven Creators *(Edison E)*
Tak Wai Chan, Eric Hamilton, Jeremy Roschelle

Interest-driven learning is an important theme in cyberlearning research. In this working group, participants will consider how a broad theoretical framework for interest-driven learning might strengthen collaborations and accelerate research. To start the discussion, Tak Wai Chan (National Central University, Taiwan) will present the work of Asian scholars to build a unified framework called Interest-Driven Creators (IDC) theory. Jeremy Roschelle and Eric Hamilton will share thoughts on how IDC or a similar theory could be useful in US-based cyberlearning research. We will then invite participants to join the discussion. In particular, we'll ask participants to consider the need for framework or theory at the level of IDC in our research community, what constructs should be featured, and how the community might use the resulting theory. We will invite participants to collaborate on ideas to advance cyberlearning research by articulating shared theories or frameworks for interest-driven learning.

Rapid Community Reports: Accelerating Knowledge Sharing across Stakeholders *(Edison F)*
Quinn Burke, Carly Chillmon, Patti Schank

Rapid Community Reports (RCR) is a new series—parallel to conferences and journals—for prompt and early dissemination of research-based ideas through brief (3–6 page), peer-reviewed, citable, open access publications that are expressly aimed at reaching wide audiences, including practitioners. Initially, we are focusing on three types of RCRs: primers (short introductions to a key topic in learning sciences and technology), workshop outcomes (resulting from a focused meeting on a certain theme), and design reflections (critical examination of an emerging research design). See the call for submissions at rapidcommunityreports.cirlcenter.org for more information about each type. This session is for participants who want to learn more about producing a primer, design reflection, or workshop outcomes report for the RCR Series—or for those would like to help shape the RCR effort by joining the editorial board. The RCR series is co-sponsored by the ISLS and CIRCL.

For more details, see: [http://circlcenter.org/events/cyberlearning-2019/working-sessions/](http://circlcenter.org/events/cyberlearning-2019/working-sessions/)
Gallery Walk

At the Gallery Walk, participants can explore different project stations to experience demonstrations, interactives, posters, videos, and/or artifacts from project work. The gallery walk will take place Thursday evening, during the reception, from 5:30 to 7pm. (Presenters will set up their stations between 4:45 and 5:30pm on that same day.)

To ensure that presenters are able to both share their work, and hear from others, the Gallery Walk will take place in two rounds:

- **Round 1 (5:30pm to 6:15pm):** Presenters at even-numbered tables will remain at their tables to present; presenters at odd-numbered tables will visit other tables.
- **Round 2 (6:15pm to 7:00pm):** Presenters at odd-numbered tables will remain at their tables to present; presenters at even-numbered tables will visit other tables.

1. Workshop on Digitally-Mediated Team Learning *Ronald DeMara*
2. Supporting Collaborative Problem Solving in a Game-Based Learning Environment *Cindy Hmelo-Silver*
3. The Reflect! platform: A tool for learning how to approach wicked problems *Michael Hoffmann*
5. Graspable Math *Erin Ottmar*
6. Signing avatars and embodied learning in virtual reality *Jason Lamberton, Athena Willis, Melissa Malzkuhn, & Lorna Quandt*
7. Mapping Fields in AR with Personal Mobile Devices to Enhance Visualization Skills for Education and Industry *Chrystian Vieyra*
8. Idea Thread Mapper *Jianwei Zhang*
9. Learning Parallel Programming Concepts Through An Adaptive Game *Jichen Zu*
10. Collaboration Learning Analysis with Deep Neural Networks *Roghayeh Barmaki*
11. Multimodal Learning Analytics: Understanding and Improving Learning in Physical Spaces *Xavier Ochoa*
12. My Learning Analytics: a Student-Facing Dashboard *Stephanie Teasley*
13. Number Factory: An adaptive and inclusive elementary math interactive *Jodi Asbell-Claire*
14. The Phenomenon Server *Tom Moher*
15. HoloLens Applications for Teaching Science *Mike Martans*
17. Connecting Language, Learning and Critical Thinking *Rebecca J. Passonneau, Smaranda Muresan*
18. Computational Thinking with Zoombinis: Results from a national classroom implementation study *Elizabeth Rowe*
19. An Intelligent Tutoring System for Source Code Comprehension *Vasile Rus, Peter Brusilovsky*
20. Contextual Linkages Between Educational Platforms *Perry Samson*
21. Empowering Learners to Conduct Playful Experiments *Camillia Matuk*

22. This space shared by two projects:
   a. **E-TRIALS: The Future of The ASSISTments Testbed** Korinn Ostrow
   b. **Skyscraper Games** Matthew Duvall

23. This space shared by two projects:
   a. **CIRCL Educators** Judith Fusco, Pati Ruiz, Sarah Hampton, Angie Kalthoff, Steve Hickman, and
      Amar Abbott
   b. **nQuire - Inquiry Learning at Scale** Mike Sharples

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   a. **International Community for Collaborative Content Creation (IC4)** Danielle Espino
   b. **Teaching social science through virtual reality and game-based learning** Laura Shackelford

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   a. **iVisit: Using Virtual Humans in 360-degree Immersive Digital Sites to Practice Communication Skills**
      within Complex Spatiotemporal Contexts Masoud Gheisari
   b. **Case-based Analysis Platform to Support Ethical Decision-making** Yianna Vovides

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      and Hard-of-Hearing Computing Workers Matt Huenerfauth
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27. This space shared by two projects:
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   b. **Toward automated dialogue systems for teaching communication and interpersonal skills**
      David DeVault

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   b. **The Impact of Gesture and Distributing Story between Multiple Characters on Children’s Engagement with an Animated Story Telling Application**
      Michael Neff

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   a. **The Role of Data Visualizations in Writing for Impact Online** Amy Stornaiuolo
   b. **Optimizing Statistical Machine Translation for Text Simplification** Wei Xu

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   b. **Designing Full-Body and Tangible Interactions that Aid Reasoning about Correlation and Causation**
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   b. **The use of engineering model building activities to elicit computational thinking**
      Alejandra Magana

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   b. **3D printing problem- and project-based learning** Elena Novak

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Restaurant choices within walking distance of the hotel:

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<th>Distance</th>
<th>Restaurant</th>
<th>Address</th>
<th>Cuisine</th>
<th>Website</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>In hotel</td>
<td>Trademark</td>
<td>(Hotel)</td>
<td>American</td>
<td><a href="http://www.trademarkdrinkandeat.com">www.trademarkdrinkandeat.com</a></td>
<td>703-253-8640</td>
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<tr>
<td>0.1 mi</td>
<td>Pasara Thai</td>
<td>2051 Jamieson Ave</td>
<td>Thai</td>
<td><a href="http://www.pasarathairestaurant.com">www.pasarathairestaurant.com</a></td>
<td>703-299-8747</td>
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<tr>
<td>0.2 mi</td>
<td>Sweet Fire Donna's</td>
<td>510 John Carlyle St</td>
<td>Barbeque</td>
<td><a href="http://www.sweetfiredonnas.com">www.sweetfiredonnas.com</a></td>
<td>571-312-7960</td>
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<td>0.3 mi</td>
<td>Sumo Japanese Restaurant</td>
<td>2016 Eisenhower Ave</td>
<td>Japanese, Sushi</td>
<td><a href="http://www.sumo-japanese.com">www.sumo-japanese.com</a></td>
<td>703-739-6699</td>
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<td>Quattro Formaggi</td>
<td>1725 B Duke St</td>
<td>Italian</td>
<td><a href="http://www.4maggi.com">www.4maggi.com</a></td>
<td>703-548-8111</td>
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<tr>
<td>0.4 mi</td>
<td>San Antonio Bar &amp; Grill</td>
<td>200 Swamp Fox Rd</td>
<td>Tex-Mex</td>
<td><a href="http://www.sabarandgrill.com">www.sabarandgrill.com</a></td>
<td>703-329-6400</td>
</tr>
<tr>
<td>0.4 mi</td>
<td>Table Talk Restaurant</td>
<td>1623 Duke St</td>
<td>Diner</td>
<td><a href="http://www.yatestabletalk.com">www.yatestabletalk.com</a></td>
<td>703-548-3989</td>
</tr>
<tr>
<td>0.5 mi</td>
<td>Joe Theismann’s Restaurant</td>
<td>1800 Diagonal Rd</td>
<td>American</td>
<td><a href="http://www.theismanns.com">www.theismanns.com</a></td>
<td>703-739-0777</td>
</tr>
<tr>
<td>0.5 mi</td>
<td>Delia’s Grill &amp; Brickoven Pizza</td>
<td>209 Swamp Fox Rd</td>
<td>Mediterranean</td>
<td><a href="http://www.deliasbrickovenpizza.com">www.deliasbrickovenpizza.com</a></td>
<td>703-329-0006</td>
</tr>
<tr>
<td>0.5 mi</td>
<td>Ted’s Montana Grill</td>
<td>2451 Eisenhower Ave</td>
<td>American</td>
<td><a href="http://www.tedsmontanagrill.com">www.tedsmontanagrill.com</a></td>
<td>703-960-0500</td>
</tr>
</tbody>
</table>

Restaurant choices in Old Town Alexandria:

Take the free trolley from the King St. Metro Station to historic Old Town Alexandria—just a short ride away!
For more information, visit: https://www.visitalexandriava.com/plan/maps-and-transportation/king-street-trolley/

<table>
<thead>
<tr>
<th>Distance</th>
<th>Restaurant</th>
<th>Address</th>
<th>Cuisine</th>
<th>Website</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 mi</td>
<td>Hank’s Oyster Bar</td>
<td>1026 King St</td>
<td>Seafood</td>
<td><a href="http://www.hanksoysterbar.com">www.hanksoysterbar.com</a></td>
<td>703-739-4265</td>
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<tr>
<td>1.2 mi</td>
<td>Hen Quarter</td>
<td>801 King St</td>
<td>Southern</td>
<td><a href="https://www.henquarter.com">https://www.henquarter.com</a></td>
<td>703-684-8969</td>
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<tr>
<td>1.2 mi</td>
<td>Don Taco</td>
<td>808 King St</td>
<td>Mexican</td>
<td><a href="http://www.dontacova.com">www.dontacova.com</a></td>
<td>703-518-8800</td>
</tr>
<tr>
<td>1.2 mi</td>
<td>Magnolia’s on King</td>
<td>703 King St</td>
<td>American</td>
<td><a href="http://www.magnoliasonking.com">www.magnoliasonking.com</a></td>
<td>703-838-9090</td>
</tr>
<tr>
<td>1.3 mi</td>
<td>Columbia Firehouse</td>
<td>109 S St Asaph St</td>
<td>American</td>
<td><a href="http://www.columbiafirehouse.com">www.columbiafirehouse.com</a></td>
<td>703-683-1776</td>
</tr>
<tr>
<td>1.5 mi</td>
<td>Caphe Banh Mi</td>
<td>407 Duke St</td>
<td>Vietnamese</td>
<td><a href="http://www.caphebanhmi.com">www.caphebanhmi.com</a></td>
<td>703-549-0800</td>
</tr>
<tr>
<td>1.6 mi</td>
<td>Vola’s Dockside Grill &amp; High-Tide Lounge</td>
<td>101 N Union St</td>
<td>Seafood</td>
<td><a href="http://www.volasdockside.com">www.volasdockside.com</a></td>
<td>703-935-8890</td>
</tr>
<tr>
<td>1.6 mi</td>
<td>Fish Market Restaurant</td>
<td>105 King St</td>
<td>Seafood</td>
<td><a href="http://fishmarketva.com">http://fishmarketva.com</a></td>
<td>703-836-5676</td>
</tr>
<tr>
<td>1.6 mi</td>
<td>Virtue Feed &amp; Grain</td>
<td>106 S Union St</td>
<td>American</td>
<td><a href="http://www.virtuefeedgrain.com">www.virtuefeedgrain.com</a></td>
<td>571-970-3559</td>
</tr>
<tr>
<td>1.6 mi</td>
<td>Chadwick’s</td>
<td>203 Strand St</td>
<td>American</td>
<td><a href="http://www.chadwicksrestaurants.com">www.chadwicksrestaurants.com</a></td>
<td>703-836-4442</td>
</tr>
<tr>
<td>1.7 mi</td>
<td>Momo Sushi &amp; Cafe</td>
<td>212 Queen St</td>
<td>Japanese</td>
<td><a href="http://www.mymomosushi.com">www.mymomosushi.com</a></td>
<td>703-299-9092</td>
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<tr>
<td>2.0 mi</td>
<td>Haute Dogs and Fries</td>
<td>610 Montgomery St</td>
<td>American</td>
<td><a href="http://www.hautedogsandfries.com">www.hautedogsandfries.com</a></td>
<td>703-548-3891</td>
</tr>
</tbody>
</table>
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Cyberlearning 2019: Exploring Contradictions in Achieving Equitable Futures

**Thursday, October 3**
- 7:30 am  Breakfast
- 8:00   Welcome
- 8:30   Networking Activity
- 9:15   Roundtable Sessions
- 10:15  Networking Break
- 10:45  Keynote: Mike Sharples
- 11:15  Keynote: Safiya Umoja Noble
- 12:00  Lunch
- 1:00   Expertise Exchange I
- 2:30   Networking Break
- 3:00   Working Session
- 4:45   Networking Break
- 5:30   Gallery Walk
- 7:00   End Day 1

**Friday, October 4**
- 7:30 am  Breakfast
- 8:00   Future Funding Possibilities
- 8:45   Future Research Issues
- 9:30   Networking Break
- 10:00  Keynote: Angela Booker
- 10:30  Legislative Visit Panel
- 11:00  Reflections by Co-chairs
- 11:30  Lunch
- 12:45  Expertise Exchange II
- 2:15   Networking Break
- 2:45   Bold Steps on Research Issues
- 3:30   Town Hall Conversation
- 4:00   Adjourn

**Saturday, October 5 (Optional)**
Cyberlearning panel at TMS Conference

The Westin Alexandria