

This document: [2023 ICICLE Community Call Agenda and Minutes](#)

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Not all SIGs are represented and things also change from time to time.

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Access code: 711 711 672

## ICICLE Community Call: 20 December 2023, Noon EDT


**Attending:** Lauren Totino, Karen Rege, Oliver Pincus, Anne Fensie, Shira Fruchtman, Sarah Gilmore, Evangeline Schepper, Thor Anderson, Renee Johnson, Avron Barr, Brenda Bannan, Zarka Ali, Michael Jay, Genzeb Jan, Amy Parent, Charles Fadel, Milad Ekramnia, Becky Goldberg, Brenda Braitling, Carol McDonald, Emily Marasco, Jodi Lis, John Costa, Kelly Cooney, Luis Carro, Manuela Henriques, Adesola Ogundimu, Aileen, Phil Vahey, Patricia Okorie, Dina Kurzweil, Emiliano Gerbaudo, Omotayo Olorunfemi, Neil Thawani, Jim Paradiso, Duncan Welder, Nolan Lovett, Kayla Morehead,

**Apologies:**

1. **Review of the Agenda** and any additions (MJay) (1 min)
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Kelly Cooney, [kelly.cooney@jhu.edu](mailto:kelly.cooney@jhu.edu), Johns Hopkins University
  - b. Sarah Gilmore, [sarah.gilmore@uconn.edu](mailto:sarah.gilmore@uconn.edu), University of Connecticut
  - c. Genzeb Jan Terchino, [genzeb.terchino@century.edu](mailto:genzeb.terchino@century.edu), Minnstate System
  - d. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu), Texas A&M University-Corpus Christi
  - e. Patricia Okorie, [triciaokorie@gmail.com](mailto:triciaokorie@gmail.com), City of Ottawa, Canada
3. **2023 Conference Proceedings - Rachel Van Campenhout & Erin Czerwinski**  
Proceedings status

4. **2024 ICICLE Conference - Megan Torrance & Danielle McNamara**
  - a. Theme- **Learning Engineering: Solving for Complexity at Scale**
  - b. Session types and proposal requirements in the works
  - c. Next Committee Mtg:
  - d. Email Tracy Arner at [tarnar@asu.edu](mailto:tarnar@asu.edu) if you would like to join the committee

#### 5. Calendar of Conferences and Meetings


- a.  Conferences + Events of Interest to LE (Work in progress. Draft list, to be organized). If you know of conferences that are of interest to ICICLE community, please add the name and date of conference to the end of the sheet. We will add info to it.

#### 6. The Learning Engineering Toolkit In Action - Jim Goodell

Please post reviews on Amazon, social media, etc. to help get the word out.  
#LearningEngineeringToolkit

- a. Provide direction for the next iteration of the Learning Engineering Toolkit on this GoogleForm: <https://forms.gle/mrQueXs38KsoDoHp8>
- b. Consider writing a case study while doing your next project or development cycle; track decisions, document your story, and how you used LE process/tools. As part of that metacognitive exercise you might consider what additional LE tools to try during that next challenge. Case study suggestion form: <https://forms.gle/Gwf8A1SfhHsUbvhw6>

#### 7. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. ✓ Prepare a one-pager on how to access and use Discord
  - i. Thanks to Emiliano Gerbaudo for preparing this quick guide to using Discord!  Discord
  - ii. Arun is the new administrator of Discord. Any new channels to create, please contact him. [Arun Lekshmi Narayanan](#)

#### 8. Government / Military MIG - Michael Jay

- a. Planning mtg in January
- b. How do people prefer to schedule meetings? Email req? Doodle? Other?
- c. Are you interested in helping assemble this new MIG?
  - i. Existing invitees
    1. Andy Johnson
    2. Rob Nyland
    3. Nolan Lovett

4. Wendy Walsh
  5. Doug McCarty
  6. Dina Kurzweil
  7. Christina Parker
  8. Mollie McCormick
  9. Zarka Ali
  10. Simon Hsu
- d. Provide your name and email address:
- i. D'Marie Bartolf, [dbartolf@quanthub.com](mailto:dbartolf@quanthub.com)
  - ii. Jodi Lis

## 9. Localization Committee - Jodi Lis

- a. Primary goal is the adaptation of learning engineering process and address the needs of learning engineers in different learning environments.
- b. Driven by Jodi Lis, Omotayo and Lilian and others
- c. Add your name [here](#) if interested
  - i. Emiliano Gerbaudo, [egerbaudo@fi.uba.ar](mailto:egerbaudo@fi.uba.ar)
  - ii. Genzeb Jan, [genzeb.terchino@century.edu](mailto:genzeb.terchino@century.edu)
- d. Audience: Global
- e. Next meeting to define 2024 goals: **TBD**

## 10. SIG Updates

### a. Competencies Credentialing Curriculum SIG

**Evangeline Schepper** ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))

**Jodi Lis** ([jodillis@gmail.com](mailto:jodillis@gmail.com))

- i. Next Mtg: **No general CCC SIG meeting in December 2023. Meetings for Learning Sciences and Intro to LE Categories. Following meeting tentatively scheduled for January 26th at 3pmET.**
- ii. [Meeting notes](#)
- iii. [Survey](#) for categories
  1. Topics are currently based on [Competency Categories](#) (still in draft.)
- iv. *Competency Framework*: We will be starting with developing sub-categories, competencies and resources for the Learning Sciences and General Intro to what is Learning Engineering. Others will be added.
  1. Michael Jay described the process best: We are to build the nodes first, then make the connections across the framework.
  2. Please add your name if interested in [this spreadsheet](#) and tick which categories that you are interested in working on.

3. We'll send an update in January about the different activities.
- v. *LE Primer*: The LE Primer will be resources on how to learn and do learning engineering. It will be aligned with categories in the competency framework.
  1. Design SIG has been discussing what resources that they would like in the primer. See [Design Notes](#). Great discussion. Join their meeting on January 30th
  2. If you have resources to share with the community, please fill out this [form](#)
  3. If you are interested in how to organize the primer so that it is easy to find information and a helpful resource and/or identifying dissemination/publication methods, please sign up for the listserv. We'll be emailing next month with an update.
- vi. Interested in participating
  1. Subscribe to listserv (ICICLE-CCC@LISTSERV.IEEE.ORG) by completing form here:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  2. Or leave your name and email here:
    - a. Safiyyah Scott ([safiyyas@andrew.cmu.edu](mailto:safiyyas@andrew.cmu.edu))
    - b. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu)
    - c. Genzeb Jan, [genzeb.terchino@century.edu](mailto:genzeb.terchino@century.edu),

**b. Design for Learning SIG**

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. Meeting Notes
- ii. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSl6YBOsvWoUi2JFOoHXDj7UhZwM>).
- iii. Next meeting: **Tuesday, January 30th from 2-3pm ET**. Meetings are the last Tuesday of the Month
- iv. LE Primer - What is in LE space? What is common language? What's missing on the design side to integrate in framework.
- v. Interested in participating, leave your name and email here:
  1. Genzeb Jan, [genzeb.terchino@century.edu](mailto:genzeb.terchino@century.edu),
  2. Brenda Braitling, [bbraitling@ponderingnature.com](mailto:bbraitling@ponderingnature.com) Pondering Press.
  3. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu)
  4. Milad Ekramnia [milad@edcortex.com](mailto:milad@edcortex.com)

**c. Tools & Instrumentation SIG**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) &

**Baptiste Moreau-Pernet** ([baptiste.moreaupernet@gmail.com](mailto:baptiste.moreaupernet@gmail.com))

- i. Meets the last Thursday of each month: **Thursday, January 25th, 2023 at 2-3pm ET**
  - ii. [Meeting notes and agenda](#)
  - iii. Working on survey to collect tools information ([preview](#)).
  - iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
    1. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu)
- d. **Students & Grads SIG** (Aspiring learning engineers are also welcome)
- Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &  
**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))
- i. Meets monthly: Next meeting- **Wednesday January 10th 4-5pm ET\***
  - ii. [Meeting notes and agenda](#)
  - iii. We're working on creating a more robust directory of our members' bios, interests, skills, and work to facilitate collaboration and easier outreach/connections outside of monthly meetings, which is one of our main 2023-2024 goals.
  - iv. Coming up in the next meeting: **\*we will be doing some asynchronous work around the new directory for December, and meeting again live in January. Stay tuned for more details!**
  - v. Interested in participating, leave your name and email here:
    1. Emiliano Gerbaudo, [egerbaudo@fi.uba.ar](mailto:egerbaudo@fi.uba.ar) - added!
    2. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu) - added!
    3. Kayla Morehead, [kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net)

## 11. MIG Updates (Market Interest Group)

### a. Higher Ed MIG

**Emily Marasco** ([emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca))

**Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Next Meeting (First Tuesday of the month) 10 am MT/12 pm ET, next meeting is moved to **Tuesday, January 9th due to holidays.**
- ii. Themes: Identification, Visibility, Collaboration
- iii. Meeting notes and agenda
- iv. December meeting was a discussion around upcoming conference opportunities and what future submissions/publications might look like.
- v. January meeting will be a working meeting to create small groups for 2024 conference submissions.
- vi. Interested in participating, leave your name and email here:
  1. Genzeb Jan, [genzeb.terchino@century.edu](mailto:genzeb.terchino@century.edu),
  2. Kelly Cooney, [kelly.cooney@jhu.edu](mailto:kelly.cooney@jhu.edu)

b. **Workforce MIG** (previously Corporate MIG)

John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

Monique Liles ([laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu))

DJ Jaeger

- i. Name change: We have selected Workforce MIG
- ii. [Meeting Agenda and Minutes](#)
- iii. Generally meets the last Friday of the month at 12pmET
  1. The next meeting is **October 25 at 12 PM ET.**
    - a. Zoom invite sent! Everyone is welcome to join
- iv. Our 2024 Theme: Gen AI in Workforce Development
- v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- vi. Corporate and L&D Generative AI utilization survey
  1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- vii. Looking for new co-lead. One of the co-leads is stepping down.
  1. Are you Interested in co-leading in 2024?
  2. Contact John Costa - [jbcosta@repubit.com](mailto:jbcosta@repubit.com)
- viii. If you'd like to join [the group](#)
  1. Send an email to Eddie- [ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
  2. Or leave your name and email here:
    - a. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)
    - b. Renee Johnson, [rjohnson33@islander.tamucc.edu](mailto:rjohnson33@islander.tamucc.edu)
    - c. Patricia Okorie, [triciaokorie@gmail.com](mailto:triciaokorie@gmail.com)
    - d. Kelly Cooney, [kelly.cooney@jhu.edu](mailto:kelly.cooney@jhu.edu)
    - e. Milad Ekramnia [milad@edcortex.com](mailto:milad@edcortex.com)

c. **pK-12 MIG**

**Zarka Ali** ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com))

**Kayla Morehead** ([kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET. Next meeting in on **Wednesday, 8 May** at 9amPT/NoonET
- ii. **Agenda and notes:**  
[📄 ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iii. We are working on...
  1. 2023- 2024 deliverables in process
  2. Teachers, administrators, school districts, and pK-12 conferences
    - a. Submitted to ISTE Live
  3. Finalized and submitted to the Learning Engineering conference proceedings
  4. Submit to more conferences
  5. Add pK-12 speakers for 2024

- iv. Interested in participating, leave your name and email here:
1. Monique Liles: [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu) (former k12 teacher, tutoring now with a valid teaching certificate, and contacts with many K12 educators and PLN groups and interested in becoming a learning engineer)
  2. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com)
  3. Brenda Braithling MISM - [bbraithling@ponderingnature.com](mailto:bbraithling@ponderingnature.com), volunteering with a local Quality program for Preschool and Education support
  4. Sarah Gilmore: [sarah.gilmore@uconn.edu](mailto:sarah.gilmore@uconn.edu). Former elementary/middle school teacher from Scotland and edtech integration person, now LS PhD student at UConn. I'm interested in developing tools that allow teachers to participate and collaborate on classroom based research, and make research more scalable and decentralized.

## 12. Events in which ICICLE members participated in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, [ATD TechKnowledge](#), New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, [Digital Learning Annual Conference \(DLAC\)](#), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSVITICSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023, Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. (COMPLETE) xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. (COMPLETE) June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. (COMPLETE) June 26, 2023, [CDIO](#)
- o. (COMPLETE) July 3-7, [AIED'23](#), Tokyo
- p. (COMPLETE) July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. (COMPLETE) **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. (COMPLETE) July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. (COMPLETE) Oct 2-5, [EdTechWeek](#), in NYC (more focused on edTech startups, some sessions relevant to learning sciences/engineering)
- t. (COMPLETE) Oct 16-22, [AECT](#) in Orlando, FL
- u. (COMPLETE) Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- v. (COMPLETE) Oct IEEE Frontiers in Education in Texas
- w. (COMPLETE) Oct 23-26 HFES in Washington, DC
- x. (COMPLETE) Oct 23-27 DevLearn + Co-located Events (xAPI User Conference & AR VR for Learning Summit), Las Vegas, NV

- y. (COMPLETE) Nov 5-8 2023, [Quality Matters](#) Connect Conference in Bloomington, Minnesota
- z. (COMPLETE) Nov 17-19, 2023, [Learning & the Brain](#), Boston, MA
- aa. (COMPLETE) Nov 27 - Dec 1, [IITSEC](#) in Orlando, FL

### 13. Events ICICLE participants are looking forward to in 2024

- a. July 8-12, AIED '24, Recife, Brazil. <https://aied2024.cesar.school/>
- b. July 10-12, IMBES, Leuven, Belgium
- c. July 22-24, ICICLE 2024, ASU in Phoenix, AZ, USA
- d. October ?, AECT

### 14. Final Mtg Items:

- a. Announcements from participants
  - i. Latest episode of Learning Engagement Activated features Dr. Airedale Rodgers, critical learning sciences scholar discussing inclusive pedagogy: <https://learnerengagement.podbean.com/e/episode-15-aireale-rodgers/>
  - ii. Sarah Gilmore made it through the first round of the LE tools competition!
  
- b. Our next Community Call will be on 17 January 2024

### 15. Today's Topic and Speaker...

#### You are our speaker!

1. What was the LE highlight of 2023?
2. What would you like the highlight to be for 2024?

## ICICLE Community Call: 15 November 2023, Noon EDT

**Attending:** Zarka Ali, Aaron Kessler, Emiliano Gerbaudo, Lauren Totino, Phil Vahey, Katherine McEldoon, Erin Czerwinski, Kayla Morehead, Tracy Arner, Safiyyah Scott, Shira Fruchtman, Becky Goldberg, Jim Paradiso, John Costa, Andrew McCallister, LaTonya Motley, Karen Rege, Anne Fensie, Nolan Lovett, Dina K, Caitlin Lim

#### Apologies:

1. **Review of the Agenda** and any additions (MJay) (1 min)
  
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Steve Nordmark, Learning Community Insight



### 3. 2023 Conference Proceedings - Rachel Van Campenhout & Erin Czerwinski

We welcome all presenters to submit their content. This can be a version of what was submitted for the CFP, or you can choose to expand/change your original submission based on feedback or additional ideas. Please continue to include images, tables, references, etc.

We also want to invite all attendees (including presenters) to submit a conference reflection. This can be on any topic related to learning engineering. If you learned something new that you want to incorporate into your practice, had a follow up idea or response to a presentation, or want to share how you apply learning engineering in your context, please share your reflections. There is no length requirement, so even if it's just a paragraph, we're happy to include it.


Here is a [Google Drive folder](#) where you can submit your files. Please submit either a Word or Google Doc. We will make some attempt at a consistent style (single spaced, Times New Roman, size 12, APA style headings). Include author names, affiliations, emails.

Please submit your file(s) by **November 17<sup>th</sup>**. We will work to have the proceedings compiled and posted on the website within a few weeks. If you want to submit but need more time, let us know.

### 4. 2024 ICICLE Conference - Megan Torrance & Danielle McNamara

- a. Theme- **Learning Engineering: Solving for Complexity at Scale**
- b. Updates - 2023 Conference Feedback form included in the proceedings email
- c. Next Committee Mtg: November 30th ???
- d. Email Tracy Arner at [tarnar@asu.edu](mailto:tarnar@asu.edu) if you would like to join the committee

### 5. Calendar of Conferences and Meetings

- a.  Conferences + Events of Interest to LE (draft list, to be organized)
- b. See also:
  - i. [IITSEC](#) - Nov 27 - Dec 1, Orlando

### 6. The Learning Engineering Toolkit In Action - Jim Goodell

Please post reviews on Amazon, social media, etc. to help get the word out.  
#LearningEngineeringToolkit

- a. Provide direction for the next iteration of the Learning Engineering Toolkit on this GoogleForm: <https://forms.gle/mrQueXs38KsoDoHp8>
- b. Consider writing a case study while doing your next project or development cycle; track decisions, document your story, and how you

used LE process/tools. As part of that metacognitive exercise you might consider what additional LE tools to try during that next challenge. Case study suggestion form: <https://forms.gle/Gwf8A1SfhHsUbvhw6>

## 7. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Prepare a one-pager on how to access and use Discord

## 8. Government / Military MIG - Michael Jay

- a. Planning mtg
- b. Shelly is helping get people at the first meeting that represent a good cross section of this community
- c. Are you interested in helping assemble this new MIG?
  - i. Existing invitees
    1. Andy Johnson
    2. Rob Nyland
    3. Nolan Lovett
    4. Wendy Walsh
    5. Doug McCarty
    6. Dina Kurzweil
    7. Christina Parker
    8. Mollie McCormick
    9. Zarka Ali
- d. Provide your name and email address:
  - i. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)
  - ii.

## 9. Localization Committee - Jodi Lis

- a. Primary goal is to address the needs of learning engineers who are more geographically isolated and have unique challenges in implementing LE
- b. Driven by Jodi Lis, Omotayo and Lilian
- c. Add your name [here](#) if interested
- d. Audience: Global
- e. Next meeting to define 2024 goals: **Friday December 8th at 9am ET**

## 10. SIG Updates

- a. **Competencies Credentialing Curriculum SIG**  
**Evangeline Schepper** ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))  
**Jodi Lis** ([jodillis@gmail.com](mailto:jodillis@gmail.com))

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- iv. We will be starting with developing sub-categories, competencies and resources for the Learning Sciences and Intro to Learning Engineering. Others will be added.
  1. Please add your name if interested in [this spreadsheet](#) and tick which categories that you are interested in working on.
  2. Other resources shared: John Whitmer created a Zotero group with pubs/resources related to using LLMs for Education. Requires a (free) account, and for people to request inclusion (so that we can provide articles).  
[https://www.zotero.org/groups/5034711/lms\\_for\\_edu](https://www.zotero.org/groups/5034711/lms_for_edu)
- v. Interested in participating
  1. Subscribe to listserv (ICICLE-CCC@LISTSERV.IEEE.ORG) by completing form here:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  2. Or leave your name and email here:
    - a. Safiyyah Scott ([safiyyas@andrew.cmu.edu](mailto:safiyyas@andrew.cmu.edu))

**b. Design for Learning SIG**

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. Meeting Notes
- ii. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- iii. Next meeting: **Tuesday, November 28th from 2-3pm ET.**  
Meetings are the last Tuesday of the Month
- iv. LE Primer - What is in LE space? What is common language? What's missing on the design side to integrate in framework.
- v. Interested in participating, leave your name and email here:
  1. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com), please send an invite! Thanks
  2. LaTonya Motley, [latonya.motley@npc.edu](mailto:latonya.motley@npc.edu)

**c. Tools & Instrumentation SIG**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) &

**Baptiste Moreau-Pernet** ([baptiste.moreaupernet@gmail.com](mailto:baptiste.moreaupernet@gmail.com))

- i. Meets the last Thursday of each month: **Thursday, November 30th, 2023 at 2-3pm ET**
- ii. [Meeting notes and agenda](#)
- iii. Working on survey to collect tools information ([preview](#)).
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
  1. Emiliano Gerbaudo - [egerbaudo@fi.uba.ar](mailto:egerbaudo@fi.uba.ar)
  - 2.

d. **Students & Grads SIG** (Aspiring learning engineers are also welcome)

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting- ~~Wednesday December 13th, 4-5pm ET~~ **Wednesday January 10th 4-5pm ET\***
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- v. Interested in participating, leave your name and email here:
  1. Ren Butler, [ddbutler@andrew.cmu.edu](mailto:ddbutler@andrew.cmu.edu) - added!
  2. Emiliano Gerbaudo, [egerbaudo@fi.uba.ar](mailto:egerbaudo@fi.uba.ar)
  - 3.

11. **MIG Updates (Market Interest Group)**

a. **Higher Ed MIG**

**Emily Marasco** ([emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca))

**Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Next Meeting (First Tuesday of the month) 10 am MT/12 pm ET, next meeting is **Tuesday, December 5th.**
- ii. Themes: Identification, Visibility, Collaboration
- iii. Meeting notes and agenda
- iv. October/November meeting will be a working meeting to draft our contribution to the conference proceedings.
- v. November meeting on feedback from conferences
- vi. Interested in participating, leave your name and email here:
  1. Monique Liles: [laquita.liles@saintle.edu](mailto:laquita.liles@saintle.edu) (HE learning designer)

b. **Corporate MIG**

**Eddie Lin** ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

**John Costa** ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. Name change: Evaluating naming Workforce MIG or Talent Development MIG
- ii. Meeting notes
- iii. Generally meets the last Friday of the month at 11amET
  1. The next meeting is **Friday, 17 November at 11amET.**
    - a. Speaker: Eric Shepard
    - b. Zoom invite sent! Everyone is welcome to join  
<https://us06web.zoom.us/j/2020714038?pwd=MnZuTIRRK2VIMEpVa0xOUng0Syt1dz09>  
Meeting ID: 202 071 4038  
Passcode: Xfxx34
- iv. Our yearly theme: Gen AI in Workforce Development
- v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- vi. Corporate and L&D Generative AI utilization survey
  1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- vii. Looking for new co-lead. One of the co-leads is stepping down.
  1. Are you Interested in co-leading in 2024?
  2. Contact John Costa - [jbcosta@repubit.com](mailto:jbcosta@repubit.com)
- viii. If you'd like to join [the group](#)
  1. Send an email to Eddie- [ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
  2. Or leave your name and email here:
    - a. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)

c. **pK-12 MIG**

**Zarka Ali** ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com))

**Kayla Morehead** ([kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET. Next meeting in on **Wednesday, 13th December** at 9amPT/NoonET
- ii. **Agenda and notes:**  
[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iii. We are working on...
  1. 2023- 2024 deliverables in process
  2. Teachers, administrators, school districts, and pK-12 conferences
    - a. Submitted to ISTE Live
  3. Finalizing Learning Engineering conference proceedings
- iv. Interested in participating, leave your name and email here:
  1. Monique Liles: [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu) (former k12 teacher, tutoring now with a valid teaching certificate, and contacts with many K12 educators and PLN groups and interested in becoming a learning engineer)
  2. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com)

3. Brenda Braitling MISM - [bbraitling@ponderingnature.com](mailto:bbraitling@ponderingnature.com), volunteering with a local Quality program for Preschool and Education support

## 12. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSVITICSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023, Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. (COMPLETE) xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. (COMPLETE) June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. (COMPLETE) June 26, 2023, [CDIO](#)
- o. (COMPLETE) July 3-7, [AIED'23](#), Tokyo
- p. (COMPLETE) July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. (COMPLETE) **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. (COMPLETE) July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. (COMPLETE) Oct 2-5, [EdTechWeek](#), in NYC (more focused on edTech startups, some sessions relevant to learning sciences/engineering)
- t. (COMPLETE) Oct 16-22, [AECT](#) in Orlando, FL
- u. (COMPLETE) Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- v. (COMPLETE) Oct IEEE Frontiers in Education in Texas
- w. (COMPLETE) Oct 23-26 HFES in Washington, DC
- x. (COMPLETE) Oct 23-27 DevLearn + Co-located Events (xAPI User Conference & AR VR for Learning Summit), Las Vegas, NV
- y. (COMPLETE) Nov 5-8 2023, [Quality Matters](#) Connect Conference in Bloomington, Minnesota
- z. Nov 17-19, 2023, [Learning & the Brain](#), Boston, MA
- aa. Nov 27 - Dec 1, [IITSEC](#) in Orlando, FL

**Any others?**

## 13. Final Mtg Items:

- a. Announcements from participants
  - i. Share your design cases in the International Journal of Designs for Learning: <https://scholarworks.iu.edu/journals/index.php/ijdl>
  - ii. Proposal deadline for the Special Section on Ethics in Learning Design to **November 17th, 2023.**

- iii. Anne Fensie is presenting a poster Toward a Science of Adult Learning and posted a paper for this online that may help people who work with adult learners:  
[https://www.researchgate.net/publication/375553001\\_Toward\\_a\\_Science\\_of\\_Adult\\_Learning](https://www.researchgate.net/publication/375553001_Toward_a_Science_of_Adult_Learning)

b. Our next Community Call will be on 20 December 2023

#### 14. Today's Topic and Speaker...

##### The K12 Open Content Exchange

Steve Midgley, Learning Tapestry - - [steve@learningtapestry.com](mailto:steve@learningtapestry.com)

Whitney [whitney@learningtapestry.com](mailto:whitney@learningtapestry.com)

- [Presentation](#)
- OCX spec: <https://k12ocx.github.io/k12ocx-specs/>
- You have to create an account, but you can see the Google Classroom loader here:  
<https://www.openscienced.org/6-1-light-matter-download/>

##### OER Schema

[oerschema.org](http://oerschema.org)

[Michael Collins](#), OER Schema - [msc227@psu.edu](mailto:msc227@psu.edu)

- [Presentation](#)
- Spec: <https://oerschema.org/docs/schema.html>
- Github Repository: <https://github.com/open-curriculum/oerschema>
- 

## ICICLE Community Call: 18 October 2023, Noon EDT

Attending: Oliver Pincus, Tracy Arner

### Apologies:

1. **Review of the Agenda** and any additions (MJay) (1 min)
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Ren Butler, [dbutler@andrew.cmu.edu](mailto:dbutler@andrew.cmu.edu), Carnegie Mellon University
  - b. Emiliano Gerbaudo - [egerbaudo@fi.uba.ar](mailto:egerbaudo@fi.uba.ar) - University of Buenos Aires
  - c. Becky Goldberg - [beckyg@gmail.com](mailto:beckyg@gmail.com) - Travelers Insurance
  - d. Brenda Braitling MISM [bbraitling@ponderingnature.com](mailto:bbraitling@ponderingnature.com) individual
3. **2023 Conference Proceedings** - Rachel Van Campenhout & Erin Czerwinski

We welcome all presenters to submit their content. This can be a version of what was submitted for the CFP, or you can choose to expand/change your original submission based on feedback or additional ideas. Please continue to include images, tables, references, etc.

We also want to invite all attendees (including presenters) to submit a conference reflection. This can be on any topic related to learning engineering. If you learned something new that you want to incorporate into your practice, had a follow up idea or response to a presentation, or want to share how you apply learning engineering in your context, please share your reflections. There is no length requirement, so even if it's just a paragraph, we're happy to include it.

Here is a [Google Drive folder](#) where you can submit your files. Please submit either a Word or Google Doc. We will make some attempt at a consistent style (single spaced, Times New Roman, size 12, APA style headings). Include author names, affiliations, emails.

Please submit your file(s) by **November 17<sup>th</sup>**. We will work to have the proceedings compiled and posted on the website within a few weeks. If you want to submit but need more time, let us know.


#### 4. **2024 ICICLE Conference - Megan Torrance & Danielle McNamara**

- a. Theme- **Learning Engineering: Solving for Complexity at Scale**
- b. Updates - 2023 Conference Feedback form included in the proceedings email
- c. Next Committee Mtg: 26 October at 5pmET
- d. Email Tracy Arner at [tarn@asu.edu](mailto:tarn@asu.edu) if you would like to join the committee

#### 5. **Learning Engineering Primer - Jodi Lis**

- a. Topics are currently based on [Competency Categories](#) (still in draft.)
- b. If interested in primer, please add name and interest [here](#).
- c. We will be starting with the Learning Sciences and Intro to Learning Engineering. Others will be added.
  - i. Please add your name if interested in [Learning Sciences](#) and [Intro to Learning Engineering](#).
- d. Other resources shared: John Whitmer created a Zotero group with pubs/resources related to using LLMs for Education. Requires a (free) account, and for people to request inclusion (so that we can provide articles).  
[https://www.zotero.org/groups/5034711/llms\\_for\\_edu](https://www.zotero.org/groups/5034711/llms_for_edu)

#### 6. **Calendar of Conferences and Meetings**

- a.  **Conferences + Events of Interest to LE** (draft list, to be organized)
- b. See also:
  - i. [AECT October 15-19](#)



- ii. [DevLearn xAPI User Conference](#) - Oct 25, Las Vegas
- iii. [HFES Annual Meeting](#) - Oct 23-27. Washington DC (LE Panel-26th)
- iv. [Quality Matters](#) - November 6-8, 2023
- v. [IITSEC](#) - Nov 27 - Dec 1, Orlando

## 7. The Learning Engineering Toolkit In Action - Jim Goodell

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

- a. Provide direction for the next iteration of the Learning Engineering Toolkit on this GoogleForm: <https://forms.gle/mrQueXs38KsoDoHp8>
- b. Consider writing a case study while doing your next project or development cycle; track decisions, document your story, and how you used LE process/tools. As part of that metacognitive exercise you might consider what additional LE tools to try during that next challenge. Case study suggestion form: <https://forms.gle/Gwf8A1SfhHsUbvhw6>

## 8. The [2023-24 Tools Competition](#)

The 2023-24 Tools Competition is opening on **September 21st at 12pm ET and closes November 10, 2023**. The competition has awarded nearly \$10 million to date and is slated to award the largest award pool yet this year. This is a fantastic opportunity for innovative edtech ideas from early to advanced stages that address learner challenges—whether for local or global contexts, from youth into adulthood.

## 9. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>

## 10. Government / Military MIG - Michael Jay

- a. Planning mtg in the next month
- b. Shelly is helping get people at the first meeting that represent a good cross section of this community
- c. Are you interested in helping assemble this new MIG?
  - i. Existing invitees
    - 1. Andy Johnson
    - 2. Rob Nyland
    - 3. Nolan Lovett
    - 4. Wendy Walsh
    - 5. Doug McCarty
    - 6. Dina Kurzweil
    - 7. Christina Parker
    - 8. Mollie McCormick
    - 9. Zarka Ali
- d. Provide your name and email address:
  - i. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)

ii.

## 11. Localization Committee - Jodi Lis

- a. Primary goal is to address the needs of learning engineers who are more geographically isolated and have unique challenges in implementing LE
- b. Driven by Jodi Lis, Omotayo and Lilian
- c. Add your name [here](#) if interested
- d. Audience: Global

## 12. SIG Updates

### a. Competencies Credentialing Curriculum SIG

**Evangeline Schepper** ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))

**Jodi Lis** ([jodillis@gmail.com](mailto:jodillis@gmail.com))

- i. Next Mtg: **Friday, 27 October at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
- ii. [Meeting notes](#)
- iii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iv. Or leave your name and email here:
  1. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)

### b. Design for Learning SIG

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **Tuesday, October 31st.** Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  1. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com), please send an invite! Thanks
  - 2.

### c. Tools & Instrumentation SIG

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) &

**Baptiste Moreau-Pernet** ([baptiste.moreaupernet@gmail.com](mailto:baptiste.moreaupernet@gmail.com))

- i. Meets the last Thursday of each month: **Thursday, October 26th, 2023**
  - ii. Working on survey to collect tools information ([preview](#)).
  - iii. [Meeting notes and agenda](#)
  - iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
    - 1.
- d. **Students & Grads SIG** (Aspiring learning engineers are also welcome)
- Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &  
**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))
- i. Meets monthly: Next meeting- **Wednesday November 8th, 4-5pm ET**
  - ii. We're working on creating a more robust directory of our members' bios, interests, skills, and work to facilitate collaboration and easier outreach/connections outside of monthly meetings, which is one of our main 2023-2024 goals.
  - iii. Coming up in the next meeting:
    -
  - iv. [Meeting notes and agenda](#)
  - v. Interested in participating, leave your name and email here:
    - 1. Ren Butler, [ddbutler@andrew.cmu.edu](mailto:ddbutler@andrew.cmu.edu)

### 13. MIG Updates (Market Interest Group)

#### a. Higher Ed MIG

**Emily Marasco** ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca))

**Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))


- i. Themes: Identification, Visibility, Collaboration
- ii. September meeting was a discussion around lessons learned from the ICICLE conference and how to apply that knowledge.
- iii. October meeting will be a working meeting to draft our contribution to the conference proceedings.
- iv. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, November 7th**.
- v. Interested in participating, leave your name and email here:
  - 1. Monique Liles: [laquita.liles@saintle.edu](mailto:laquita.liles@saintle.edu) (HE learning designer)

#### b. Corporate MIG

**Eddie Lin** ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

**John Costa** ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. Evaluating naming Workforce MIG or Talent Development MIG
- ii. Generally meets the last Friday of the month at 11amET

- iii. The next meeting is **Friday, 27 October at 11amET.**
    - 1. Speaker: Diane Tally (Meta)
  - iv. Topic: AR/VR for workplace Learning
  - v. Zoom invite sent! Everyone is welcome to join  
<https://us06web.zoom.us/j/2020714038?pwd=MnZuTIRRK2VIMEpVa0xOUng0Syt1dz09>  
 Meeting ID: 202 071 4038  
 Passcode: Xfxx34
  - vi. Our yearly theme: Gen AI in Workforce Development
  - vii. If you'd like to join [the group](#), send an email to Eddie-  
[ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
  - viii. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - ix. Corporate and L&D Generative AI utilization survey
    - 1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
  - x. Data and Analytics text  
 (https://www.td.org/book/data-analytics-for-instructional-designers)
  - xi. Interested in participating, leave your name and email here:
    - 1. Simon Hsu [Simon.Hsu@KeyBridgeTI.com](mailto:Simon.Hsu@KeyBridgeTI.com)
- c. **pK-12 MIG**  
**Zarka Ali** ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com))  
**Kayla Morehead** ([kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net))
- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii. Next meeting in on **Wednesday, 8 November** at 9amPT/NoonET
  - iii. **Agenda and notes:**  
 **ICICLE pK-12 Market Interest Group (MIG) Agenda and Notes**
  - iv. We are working on...
    - 1. 2023- 2024 deliverables in process
    - 2. Teachers, administrators, school districts, and pK-12 conferences
      - a. Submitted to ISTE Live
    - 3. Finalizing Learning Engineering conference proceedings
  - v. Interested in participating, leave your name and email here:
    - 1. Monique Liles: [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu) (former k12 teacher, tutoring now with a valid teaching certificate, and contacts with many K12 educators and PLN groups and interested in becoming a learning engineer)
    - 2. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com)
    - 3. Brenda Braitling MISM - [bbraitling@ponderingnature.com](mailto:bbraitling@ponderingnature.com), volunteering with a local Quality program for Preschool and Education support

## 14. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023. Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. (COMPLETE) xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. (COMPLETE) June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. (COMPLETE) June 26, 2023, [CDIO](#)
- o. (COMPLETE) July 3-7, [AIED'23](#), Tokyo
- p. (COMPLETE) July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. (COMPLETE) **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. (COMPLETE) July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. (COMPLETE) Oct 2-5, [EdTechWeek](#), in NYC (more focused on edTech startups, some sessions relevant to learning sciences/engineering)
- t. Oct 16-22, [AECT](#) in Orlando, FL
- u. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- v. Oct 23-27 DevLearn + Co-located Events (xAPI User Conference & AR VR for Learning Summit), Las Vegas, NV
- w. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- x. Nov 17-19, 2023, [Learning & the Brain](#), Boston, MA

### **Any others?**

### **15. Final Mtg Items:**

- a. Announcements from participants
  - i. Share your design cases in the International Journal of Designs for Learning: <https://scholarworks.iu.edu/journals/index.php/ijdl>
  - ii.
- b. Our next Community Call will be on 18 November 2023

## 16. Today's Topic and Speaker...

### ICICLE Roving Reporters at AECT

Hear the latest from AECT -

from their mouths to your ears... LIVE!

## ICICLE Community Call: 20 September 2023, Noon EDT

**Attending:** Michael Jay, Zarka Ali, Neil Thawani, Phi Vahey, Oliver Pincus, Amy Parent, Anne Fensie, Tracy Arner, Baptiste Moreau-Pernet, Erin Czerwinski, Danielle McNamara, Emily Marasco, George Stein, Jim Goodell, Kayla Morehead, Nolan Lovett, Omotayo Olorunfemi, Rebecca Nusbaum, Sae Schatz, Shira Fruchtman, Vlad Goodovsky, Monique, Milad Ekramnia, Lindsay Lutman, Lilian, Benjamin, Adesola, Jodi Lis, Adnan, Molly McCormick, Robert Shepherd, Eddie Lin, Nancy Otero

**Apologies:** Lauren Totino, Janet Kolodner

1. **Review of the Agenda** and any additions (MJay) (1 min)
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Milad Ekramnia, managing director at EdCortex. [milad@edcortex.com](mailto:milad@edcortex.com)
  - b. Lindsay Lutman, Instructional Designer UArizona, [lindsaylutman@arizona.edu](mailto:lindsaylutman@arizona.edu)
  - c. Adesola Ogundimu, Senior Instructional Designer, Johns Hopkins University. [aogundimu@jhu.edu](mailto:aogundimu@jhu.edu)
  - d. Adnan H, Senior Manager, Digital Learning and Technology, Michelin (joined a bit late, sorry!) [adnan.hardwarewala@michelin.com](mailto:adnan.hardwarewala@michelin.com)
  - e. Kursat Cagiltay, Professor, Sabanci University, Computer Science and Engineering department. Istanbul, Turkey. [kursat.cagiltay@sabanciuniv.edu](mailto:kursat.cagiltay@sabanciuniv.edu)
3. **2023 Conference Proceedings - Erin Czerwinski and Rachel Van Campenhout**
  - a. Timeline
  - b. Expectations
4. **2024 ICICLE Conference - Megan Torrance & Danielle McNamara**
  - a. Updates
  - b. Next Committee Mtg: 28 September at 5pmET
  - c. Email Tracy Arner at [tarn@asu.edu](mailto:tarn@asu.edu) if you would like to join the committee

## 5. Learning Engineering Primer - Jodi Lis

- a. Next Steps
- b. Other resources shared: John Whitmer created a Zotero group with pubs/resources related to using LLMs for Education. Requires a (free) account, and for people to request inclusion (so that we can provide articles).  
[https://www.zotero.org/groups/5034711/llms\\_for\\_edu](https://www.zotero.org/groups/5034711/llms_for_edu)

## 6. Calendar of Conferences and Meetings

- a.  Conferences + Events of Interest to LE
- b. See also:
  - i. [IEEE LWMOOCs](#) October 11-13, 2023, MIT, Boston
  - ii. [AECT October 15](#)
  - iii. [DevLearn xAPI User Conference](#) - Oct 25, Las Vegas
  - iv. [HFES Annual Meeting](#) - Oct 23-27. Washington DC (LE Panel-26th)
  - v. [Quality Matters](#) - November 6-8, 2023
  - vi. [IITSEC](#) - Nov 27 - Dec 1, Orlando
  - vii. [Immersive Learning Technologies in Workforce Training and Education Conference | TechConnect DC](#) - September 7, 2023, George Mason University

## 7. The Learning Engineering Toolkit In Action - Jim Goodell

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

- a. Provide direction for the next iteration of the Learning Engineering Toolkit on this GoogleForm: <https://forms.gle/mrQueXs38KsoDoHp8>
- b. Consider writing a case study while doing your next project or development cycle; track decisions, document your story, and how you used LE process/tools. As part of that metacognitive exercise you might consider what additional LE tools to try during that next challenge. Case study suggestion form: <https://forms.gle/Gwf8A1SfhHsUbvhw6>

## 8. The 2023-24 Tools Competition

The 2023-24 Tools Competition is opening on **September 21st at 12pm ET with a virtual launch event**. Register to hear from competition supporters and leaders in the edtech space, understand this cycle's priority areas, and discover what made previous winners successful: <https://tools-competition.org/launch-event/>

The competition has awarded nearly \$10 million to date and is slated to award the largest award pool yet this year. This is a fantastic opportunity for innovative edtech ideas from early to advanced stages that address learner challenges—whether for local or global contexts, from youth into adulthood.

## 9. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>

## 10. Government / Military MIG - Michael Jay

- a. Planning mtg in the next - early October (TBD)
- b. Are you interested in helping assemble this new MIG?
  - i. Existing invitees
    1. Andy Johnson
    2. Rob Nyland
    3. Nolan Lovett
    4. Wendy Walsh
    5. Doug McCarty
    6. Dina Kurzweil
    7. Christina Parker
- c. Provide your name and email address:
  - i. Mollie McCormick (mccormick.learn@gmail.com)
  - ii.

## 11. SIG Updates

### a. Competencies Credentialing Curriculum SIG

Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &

Evangeline Schepper ([eschepper@quantHub.com](mailto:eschepper@quantHub.com))

- i. Next Mtg: **Friday, 29 September at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
- ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iii. Or leave your name and email here:
  - 1.

### b. Design for Learning SIG

Aaron Kessler ([kessler@mit.edu](mailto:kessler@mit.edu)) &

Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute  
(<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **Tuesday, September 26th.** Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  1. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com) (next week is iffy, depending on the topics being discussed at the IES Math summit)
  2. Kayla Morehead, [kmorehead25@gmail.com](mailto:kmorehead25@gmail.com)
  3. Monique Liles, [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu)
  - 4.



c. **Tools & Instrumentation SIG**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) &

**Baptiste Moreau-Pernet** ([baptiste.moreaupernet@gmail.com](mailto:baptiste.moreaupernet@gmail.com))

- i. Meets the last Thursday of each month: **Thursday, September 28th, 2023**
- ii. Working on survey to collect tools information ([preview](#)).
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
  - 1.

d. **Students & Grads SIG** (Aspiring learning engineers are also welcome)

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting- **Wednesday October 11th, 4-5pm ET**
- ii. We're working on creating a more robust directory of our members' bios, interests, skills, and work to facilitate collaboration and easier outreach/connections outside of monthly meetings, which is one of our main 2023-2024 goals.
- iii. Coming up in the next meeting:

The meeting on Wed. October 11th is going to be a "crossover event" with the Higher Ed MIG. We'll be welcoming HE MIG co-chair Rob Nyland for a discussion about participants' experiences with learning engineering in their current higher ed context – how LE is talked about, how they've heard others at their institution talk about it, how they bring it to their work/studies, etc.
- iv. [Meeting notes and agenda](#)
- v. Interested in participating, leave your name and email here:
  1. Monique Liles: [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu) (aspiring learning engineer)

12. **MIG Updates (Market Interest Group)**

a. **Higher Ed MIG**

**Emily Marasco** ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca))

**Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Themes: Identification, Visibility, Collaboration
- ii. September meeting was a discussion around lessons learned from the ICICLE conference and how to apply that knowledge.
- iii. October meeting will be a working meeting to draft our contribution to the conference proceedings.

- iv. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, October 3rd.**
- v. Interested in participating, leave your name and email here:
  - 1. Monique Liles: [laquita.liles@saintle.edu](mailto:laquita.liles@saintle.edu) (HE learning designer)

**b. Corporate MIG**

**Eddie Lin** ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

**John Costa** ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. Evaluating naming Workforce MIG or Talent Development MIG
- ii. Generally meets the last Friday of the month at 11amET
- iii. The next meeting is **Friday, 6 October at 11amET.**
- iv. Topic: AR/VR for workplace Learning
- v. Zoom invite sent! Everyone is welcome to join  
<https://us06web.zoom.us/j/2020714038?pwd=MnZuTIRRK2VIMEpVa0xOUng0Syt1dz09>  
Meeting ID: 202 071 4038  
Passcode: Xfxx34
- vi. Our yearly theme: Gen AI in Workforce Development
- vii. If you'd like to join [the group](#), send an email to Eddie-  
[ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
- viii. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- ix. Corporate and L&D Generative AI utilization survey
  - 1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- x. Data and Analytics text  
(<https://www.td.org/book/data-analytics-for-instructional-designers>)
- xi. Interested in participating, leave your name and email here:
  - 1. Adnan H, senior manager, digital learning at Michelin  
[a.hardwarewala@gmail.com](mailto:a.hardwarewala@gmail.com)

**c. pK-12 MIG**

**Zarka Ali** ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com))

**Kayla Morehead** ([kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
- ii. Next meeting in on **Wednesday, 11 October** at 9amPT/NoonET
- iii. **Agenda and notes:**  
[☰ ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iv. We are working on...
  - 1. 2023- 2024 deliverables in process
  - 2. Teachers, administrators, school districts, and pK-12 conferences
  - 3. EdTech companies
- v. Interested in participating, leave your name and email here:

1. Monique Liles: [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu) (former k12 teacher, tutoring now with a valid teaching certificate, and contacts with many K12 educators and PLN groups and interested in becoming a learning engineer)
2. Phil Vahey, [phil@appliedlearninginsights.com](mailto:phil@appliedlearninginsights.com)

### 13. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSW Edu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSViTicSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023, Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. (COMPLETE) xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. (COMPLETE) June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. (COMPLETE) June 26, 2023, [CDIO](#)
- o. (COMPLETE) July 3-7, [AIED'23](#), Tokyo
- p. (COMPLETE) July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. (COMPLETE) **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. (COMPLETE) July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 2-5, [EdTechWeek](#), in NYC (more focused on edTech startups, some sessions relevant to learning sciences/engineering)
- t. Oct 16-22, [AECT](#) in Orlando, FL
- u. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- v. Oct 23-27 DevLearn + Co-located Events (xAPI User Conference & AR VR for Learning Summit), Las Vegas, NV
- w. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- x. Nov 17-19, 2023, [Learning & the Brain](#), Boston, MA

**Any others?**

#### 14. Final Mtg Items:

- a. Announcements from participants
  - i.
  - ii.
  
- b. Our next Community Call will be on 18 October 2023

#### 15. Today's Topic and Speaker...

**Jodi Lis**

### ICICLE Community Call: 16 August 2023, Noon EDT

**Attending:** Michael, Erin, Oliver Pincus, Jodi, Zarka Ali, Avron, Eddie, John Costa, Jim G, Tracy, Vlad, Rachel, Emily, Kayla, Phil Vahey, Amanda Browde, John Whitmer, Emily Marasco, Lauren Totino, Simon Hsu, Nolan Lovett, Arleya, Benjamin, Duncan Welder, Kayla Morehead, Samaa Haniya, Anne Fensie

#### Apologies:


1. **Review of the Agenda** and any additions (MJay) (1 min)
  
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Phil Vahey, pvahey@gmail.com, prior SRI Edu and Houghton Mifflin Harcourt
  - b. Melissa Tully, Curriculum designer for SimConverse, [melissajotully@outlook.com](mailto:melissajotully@outlook.com)
  - c. Amanda Browde, Director L&D, Ergomed Clinical Research
  - d. John Whitmer, Senior Fellow (AI/ML), Institute of Education Sciences / Federation of American Sciences
  - e. Nolan Lovett, [nolan.lovett@gmail.com](mailto:nolan.lovett@gmail.com), Instructional Systems Specialist at the Veterans Benefits Administration, PhD Student at Old Dominion University
  
3. **2023 Conference - Erin Czerwinski and Rachel Van Campenhout**
  - a. Thanks to our fearless leaders and all their ~~minions~~ volunteers!
  - b. Reflections on the 2023 ICICLE Conference
    - i. Takeaways
      1. Great transition for growth
      2. Expanding Learning engineering (everyone wants to be an LE now)
    - ii. Favorite moments
      1. Family moments
      2. Heartfelt conversations

3. More conversation about instrumentation of learning and standards, like xAPI
  4. Reception with LearnLab
  5. Loved the game design activity with Chris Dede
- iii. Wishes for 2024
1. Don't want to lose the active learning sessions
  2. Not enough time (and structure) for active learning sessions
  - 3.

#### 4. Learning Engineering Primer - Jodi Lis

- a. Next Steps
- b. Other resources shared: John Whitmer created a Zotero group with pubs/resources related to using LLMs for Education. Requires a (free) account, and for people to request inclusion (so that we can provide articles).  
[https://www.zotero.org/groups/5034711/llms\\_for\\_edu](https://www.zotero.org/groups/5034711/llms_for_edu)

#### 5. Calendar of Conferences and Meetings - Jim Paradiso

- a.  Conferences + Events of Interest to LE
- b. See also:
  - i. [TeachOnline.CA](#) – Professional Development in Edu + Technology
  - ii. [2023 Education Conferences](#) – General list of education confs
  - iii. [Class Central](#) – Article of conference on online learning
  - iv. [Bizzabo's Education Conferences](#) – EdTech conferences
  - v. [Conference Index](#) – eLearning related conferences
  - vi. [WikiCFP: Wiki for Call for Papers](#) – All academic calls for papers
  - vii. [AIED](#) (Artificial Intelligence in Education)- July 3 - 7, Tokyo
  - viii. [Learning at Scale](#) - July 20 - 22, Copenhagen, Denmark
  - ix. Online learning Consortium (OLC) - OLC Accelerate 2023
    1. Virtual: October 3-5, 2023
    2. Washington, DC: October 24-27, 2023
    3. Early Bird registration deadline is 9/01
  - x. [AECT October 15](#)
  - xi. [DevLearn xAPI User Conference](#) - Oct 25, Las Vegas
  - xii. [HFES Annual Meeting](#) - Oct 23-27. Washington DC (LE Panel-26th)
  - xiii. [Quality Matters](#) - November 6-8, 2023
  - xiv. [IITSEC](#) - Nov 27 - Dec 1, Orlando
  - xv. [Immersive Learning Technologies in Workforce Training and Education Conference | TechConnect DC](#) - September 7, 2023, George Mason University

#### 6. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**What have you discovered related to LE in ‘the literature’ to inform your work?** (provide reference and context)

- a. August 2023
  - i.
- b. June 2023
  - i. Learning Engineering at a Glance:  
<https://www.armyupress.army.mil/Portals/7/journal-of-military-learning/images/Conference-Edition-2023/PDF-UA/Goodell-Learning-Engineering-PDF-UA.pdf>
    1. Full special issue:  
<https://www.armyupress.army.mil/Journals/Journal-of-Military-Learning/Journal-of-Military-Learning-Archives/Conference-Edition-2023-Journal-of-Military-Learning/>
  - ii.
- c. April 2023
  - i. [Data-Informed Course Improvement: The Application of Learning Engineering in the Classroom](#) by Anne Fensie; presenting at ISLS in June in Montreal
- d. March 2023
  - i. Scotty - [Journal of Military Learning](#) by Jim Goodell et al. on LE
  - ii. Scotty - HFES (Human Factors and Ergonomics Society) possible panel in October in DC

**How are you using the Toolkit?**

- a. In August people reported:
  - i.
- b. In March people reported:
  - i. Aaron: Discussed LE and the book as part of panel at MIT J-WEL event - <https://jwel.mit.edu/events/j-wel-architectures-learning>
  - ii. Scotty - Using the Toolkit to teach a LE class (6 students now) Students working as a team to building an LE podcast
- c. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a “leave behind” to allow folks to dig more deeply on their own time.
- d. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- e. In November people reported:

- i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- f. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- g. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

## 7. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Get out the word about the conference!

## 8. 2024 ICICLE Conference

- a. In case you hadn't heard...
  - i. Conference co-chairs are Danielle McNamara & Megan Torrance
  - ii. The conference will be held at ASU in Phoenix, AZ
  - iii. Yes, ICICLE's in the heat of summer in Phoenix!
- b. Committee members:
  - i. Tracy Arner
  - ii. Zachary Zldek
  - iii. Samaa Haniya
  - iv. Erin Czerwinski (by honest self reflection)
  - v. Zarka Ali
  - vi. Anne Fensie

- vii. Student (Tracy)
- viii. Mollie McCormick
  
- c. Please sign up with your name and email address:
  - i. Kristin Torrence [kristintorrence@gmail.com](mailto:kristintorrence@gmail.com)
  - ii. Scotty Craig [scotty.craig@asu.edu](mailto:scotty.craig@asu.edu)
  - iii. Zarka Ali [zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)
  - iv. Cathi Profitko [cathi.profitko@vitalsource.com](mailto:cathi.profitko@vitalsource.com)
  - v. Rachel Van Campenhout [rachel.vancampenhout@vitalsource.com](mailto:rachel.vancampenhout@vitalsource.com)
  - vi. John Costa [jbcosta@repubit.com](mailto:jbcosta@repubit.com)
  - vii. Mollie McCormick ([mmccormick.learn@gmail.com](mailto:mmccormick.learn@gmail.com))
  - viii. Monique Liles [laquita.liles@saintleo.edu](mailto:laquita.liles@saintleo.edu)
  - ix.
- d. First meeting is this Thursday, 17 August at 5pmET

## 9. Government / Military MIG

- a. An informal group met in Pittsburgh - comments?
- b. Are you interested in helping assemble this new MIG? Provide you name and email address:
  - i. Nolan Lovett [nolan.lovett2@VA.gov](mailto:nolan.lovett2@VA.gov)
  - ii.
  - iii.

## 10. SIG Updates

### a. Competencies Credentialing Curriculum

Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &

Evangeline Schepper ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))

- i. Next Mtg: **Friday, 25 August at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
- ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iii. Or leave your name and email here:
  - 1.

### b. Design for Learning

Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute  
(<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).



- ii. Next meeting: **Tuesday, August 29th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:

- 1. Anne Fensie [anne.fensie@maine.edu](mailto:anne.fensie@maine.edu)
- 2. Mollie McCormick [mmccormick.learn@gmail.com](mailto:mmccormick.learn@gmail.com)
- 3.

c. **Tools & Instrumentation**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)

- i. Meets the last Thursday of each month: **Thursday, August 31st, 2023**
- ii. Working on survey to collect tools information ([preview](#)).
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
  - 1. [jwhitmer@fas.org](mailto:jwhitmer@fas.org)

d. **Students & Grads SIG**

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting- **Wednesday September 13th, 4-5pm ET**
- ii. Also includes some aspiring to be learning engineers
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email here:
  - 1.

11. **MIG Updates (Market Interest Group)**

a. **Higher Ed MIG**

**Emily Marasco** ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca))

**Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Themes: Identification, Visibility, Collaboration
- ii. June meeting was a working meeting on our activity logistics for the ICICLE conference.
- iii. September meeting will be a planning and working meeting for MIG visibility materials.
- iv. Co-chair position has been filled- thank you to Rob Nyland!
- v. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, September 5th**.
- vi. Interested in participating, leave your name and email here:
  - 1.

b. **Corporate MIG**

Eddie Lin ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. Evaluating naming Workforce MIG or Talent Development MIG
- ii. Generally meets the last Friday of the month at 11amET
- iii. The next meeting is **Friday, August 25th**.
- iv. Topic: AR/VR for workplace Learning
- v. Zoom invite sent! Everyone is welcome to join  
<https://us06web.zoom.us/j/2020714038?pwd=MnZuTlRRK2VIMEpVa0xOUng0Syt1dz09>  
Meeting ID: 202 071 4038  
Passcode: Xfxx34
- vi. Our yearly theme: Gen AI in Workforce Development
- vii. If you'd like to join [the group](#), send an email to Eddie-  
[ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
- viii. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- ix. Corporate and L&D Generative AI utilization survey
  1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- x. Data and Analytics text  
(<https://www.td.org/book/data-analytics-for-instructional-designers>)
- xi. Interested in participating, leave your name and email here:
  - 1.

c. **pK-12 MIG**

Zarka Ali ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com))

Kayla Morehead ([kayla\\_morehead@dpsk12.net](mailto:kayla_morehead@dpsk12.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
- ii. Next meeting in on **Wednesday, 13 September** at 9amPT/NoonET
- iii. **Agenda and notes:**  
[☰ ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iv. We are working on four initial deliverables to engage the pK-12 LE community:
  1. "How to guarantee failure in affecting educational change", LE Edition (Lead: Michael Jay)
  2. Document collection/reference of LE in research and practice (Lead: Zach Goldman)
  3. LE case studies in pK-12 (Lead: TBD (Adam Sparks and Zarka Ali))
  4. LE Primer for pK-12 (Lead: TBD (Gerri, Zarka Ali + others))
- v. Interested in participating, leave your name and email here:
  - 1.

**12. Events ICICLE participants are looking forward to in 2023**

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA

- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSViTicSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023, Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. June 26, 2023, [CDIO](#)
- o. July 3-7, [AIED'23](#), Tokyo
- p. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 16-22, [AECT](#) in Orlando, FL
- t. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- u. Oct 23-27 DevLearn + Co-located Events (xAPI User Conference & AR VR for Learning Summit), Las Vegas, NV
- v. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- w.

**Any others?**

### **13. Final Mtg Items:**

- a. Announcements from participants
  - i. The IEEE Learning Technology Standards Committee will hold officer elections this fall. If you are interested in getting involved in running the LTSC, please: 1. Attend the LTSC monthly meeting this Friday, the 18th (see <https://bit.ly/LTSCMonthly>), and 2. Contact me at [avron@ieee.org](mailto:avron@ieee.org).
  - ii.
- b. Our next Community Call will be on 20 September

### **14. Today's Topic and Speaker...**

**ADL PlugFest, LTSC standards, xAPI, & TLA, Oh My!**

Andy Johnson  
Specifications and Standards Manager – SETA Contractor  
Advanced Distributed Learning (ADL) Initiative

## **ICICLE Community Call: 21 June 2023, Noon EDT**

**Attending:** Lilian Warutere, Dina Kurzweil, Karen Rege, Erin Czerwinski, Michael Jay, Jodi Lis, Lauren Totino, Katherine McEldoon, Rob Nyland, Kristin Torrence, Andy Johnson, Tracy Arner, Jim Goodell, Zarka Ali, Avron Barr, Scotty Craig, Shira Fruchtman, Oliver Pincus, Andrew McCallister, Eddie Lin, Mollie McCormick, Adam Welle, Amy Parent, Baptiste Moreau-Pernet, Omotayo Olorunfemi, Samaa, Danielle McNamara

**Apologies:** Aaron Kessler

**16. Review of the Agenda** and any additions (MJay) (1 min)

**17. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a. Lilian Warutere- [lilywarutere@gmail.com](mailto:lilywarutere@gmail.com)
- b.

**18. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout**

- a. Save the date! July 24-26 at CMU in Pittsburgh, PA
  - i. Next Conference Committee Meeting is **Monday, July 3rd (?)** at 1pm ET
- b. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- c. [Conference registration](#) (Early bird ends May 30)
- d. Contributions - coming soon!
- e. Video Contest - look for it on Twitter and/or LinkedIn! Ends on 23 May!
  - i. <https://twitter.com/ieeEICICLE>
  - ii. <https://www.linkedin.com/groups/12188841/>
- f. [2022 Web page](#) (Thanks Jodi!)
- g. Proceedings
  - i. Link to the [2019 ICICLE Proceedings](#)
- h. Request: Asynchronous participation opportunity for international colleagues

**19. Learning Engineering Primer - Jodi Lis**

- a. Next Steps

20. IEEE iCALT Conference in Orem, UT

23rd IEEE International Conference on Advanced Learning Technologies

- a. Full Program:  
<https://ieeecs-media.computer.org/tc-media/sites/5/2022/01/30173228/ICA-LT-2023-Program-20230530.pdf>
- b. 1st Day Keynote: *Things AI Doesn't Change in Learning*. Brandt Redd
- c. Thursday 13 July, 11am-NoonMT

**Learning Engineering Panel** (Everyone is encouraged to attend)

Panelists:

**Brandt Redd** - MatchMaker Education Labs and BYU

**Bernardo Pereira Nunes** - College of Engineering, Computing and Cybernetics, The Australian National University

**Zehra Altinay** - Vice Director of Institute of Educational Sciences in Near East University in Cypress

**Andreas Lingnau** - Lecturer, Hochschule Ruhr West, University of Applied Sciences

Chaired by: Phillip BENACHOUR - IEEE TCLT Vice Chair, Webinar & Collaboration Lancaster University, UK

## 21. Calendar of Conferences and Meetings - Jim Paradiso

- a.  Conferences + Events of Interest to LE
- b. See also:
  - i. [TeachOnline.CA](#) – Professional Development in Edu + Technology
  - ii. [2023 Education Conferences](#) – General list of education confs
  - iii. [Class Central](#) – Article of conference on online learning
  - iv. [Bizzabo's Education Conferences](#) – EdTech conferences
  - v. [Conference Index](#) – eLearning related conferences
  - vi. [WikiCFP: Wiki for Call for Papers](#) – All academic calls for papers
  - vii. [AIED](#) (Artificial Intelligence in Education)- July 3 - 7, Tokyo
    - i. [Learning at Scale](#) - July 20 - 22, Copenhagen, Denmark
  - viii. [DevLearn xAPI User Conference](#) - Oct 25, Las Vegas
  - ix. [HFES Annual Meeting](#) - Oct 23-27. Washington DC (LE Panel)
  - x. [I/ITSEC](#) - Nov 27 - Dec 1, Orlando
  - xi.

## 22. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**What have you discovered related to LE in 'the literature' to inform your work?** (provide reference and context)

- a. June 2023

- i. Learning Engineering at a Glance
- b. April 2023
  - i. [Data-Informed Course Improvement: The Application of Learning Engineering in the Classroom](#) by Anne Fensie; presenting at ISLS in June in Montreal
- c. March 2023
  - i. Scotty - [Journal of Military Learning](#) by Jim Goodell et al. on LE
  - ii. Scotty - HFES (Human Factors and Ergonomics Society) possible panel in October in DC

### How are you using the Toolkit?

- h. In June people reported:
  - i.
- i. In March people reported:
  - i. Aaron: Discussed LE and the book as part of panel at MIT J-WEL event - <https://jwel.mit.edu/events/j-wel-architectures-learning>
  - ii. Scotty - Using the Toolkit to teach a LE class (6 students now) Students working as a team to building an LE podcast
- j. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a “leave behind” to allow folks to dig more deeply on their own time.
- k. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- l. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- m. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)

- vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
- vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- n. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

### 23. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Get out the word about the conference!
- c. Looking for volunteers for the **2024** ICICLE Conference Committee
  - i. Want to have a core committee formed prior to the 2023 Conference.
  - ii. Already volunteered:
    - 1. Tracy Arner
    - 2. Zachary Zldek
    - 3. Samaa Haniya
    - 4. Erin Czerwinski (by honest self reflection)
    - 5. Zarka Ali
    - 6. Anne Fensie
    - 7. Student (Tracy)
  - iii. Please sign up with your name and email address:
    - 1. Kristin Torrence [kristintorrence@gmail.com](mailto:kristintorrence@gmail.com)
    - 2.
    - 3. Zarka Ali [zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)
    - 4.

### 24. SIG Updates

- a. **Competencies Credentialing Curriculum**  
 Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &  
 Evangeline Schepper ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))
  - i. Next Mtg: **Friday, 30 June at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
  - ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
 Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  - iii. Or leave your name and email here:
    - 1.

**b. Design for Learning**

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **Tuesday, June 27th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  - 1.

**c. Tools & Instrumentation**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)

- i. Meets the last Thursday of each month: **Thursday, June 29th, 2023**
- ii. Working on survey to collect tools information ([preview](#)).
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
  - 1.

**d. Students & Grads SIG**

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting is Update: **Wednesday July 12th, 4-5pm ET**
- ii. Also includes some aspiring to be learning engineers
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email here:
  - 1.

**25. MIG Updates (Market Interest Group)**

**a. Higher Ed MIG**

**Emily Marasco** ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)) & co-chair **Rob Nyland** ([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Themes: Identification, Visibility, Collaboration
- ii. May meeting was a working meeting on our submission for the ICICLE conference.
- iii. June meeting will be another meeting on our activity logistics for the submission.
- iv. Co-chair position has been filled- thank you to Rob Nyland!



- v. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, July 11th**.
- vi. Interested in participating, leave your name and email here:
  - 1.

**b. Corporate MIG**

Eddie Lin ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &  
John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. We have new chairs!
- ii. Evaluating naming Workforce MIG or Talent Development MIG
- iii. Generally meets the last Friday of the month at 11amET
- iv. The next meeting is **Friday, June 30th**.
- v. A Zoom invite will be sent soon!
- vi. Guest speaker: Tracy Arner (ASU)
- vii. Our yearly theme: Gen AI in Workforce Development
- viii. If you'd like to join [the group](#), send an email to Eddie-  
[ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)
- ix. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- x. Corporate and L&D Generative AI utilization survey
  1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- xi. Data and Analytics text  
(<https://www.td.org/book/data-analytics-for-instructional-designers>)
- xii. Interested in participating, leave your name and email here:
  1. Caitlin Lim, [caitlinl@andrew.cmu.edu](mailto:caitlinl@andrew.cmu.edu)

**c. pK-12 MIG**

Zarka Ali ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)) &  
Michael Jay ([michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
- ii. Next meeting in on **Wednesday, 12 July** at 9amPT/NoonET
- iii. **Agenda and notes:**  
[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iv. **Conference Session Accepted!**
- v. We are working on four initial deliverables to engage the pK-12 LE community:
  1. "How to guarantee failure in affecting educational change", LE Edition (Lead: Michael Jay)
  2. Document collection/reference of LE in research and practice (Lead: Zach Goldman)
  3. LE case studies in pK-12 (Lead: TBD (Adam Sparks and Zarka Ali))
  4. LE Primer for pK-12 (Lead: TBD (Gerri, Zarka Ali + others))

vi. Interested in participating, leave your name and email here:

1.

## 26. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. (COMPLETE) May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. (COMPLETE) June 13-17, [ISLS 2023, Montreal and online](#)
- k. (COMPLETE) June 18-21 Canadian Engineering Education Association annual conference
- l. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. June 26, 2023, [CDIO](#)
- o. July 3-7, [AIED'23](#), Tokyo
- p. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 16-22, [AECT](#) in Orlando, FL
- t. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- u. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- v.

**Any others?**

## 27. Final Mtg Items:

- a. Announcements from participants
  - i. Katherine McEldoon - at IES/DOE NCADE
  - ii. Panel on LE - Human Factors in October (26th)
  - iii. ASU LE Podcast
  - iv. Applying Human-Centered Engineering Methods to Learning with Jim Goodell, Janet Kolodner, and Sae Schatz  
<https://silverliningforlearning.org/episode-149-applying-human-centered-engineering-methods-to-learning/>
  - v.

- b. There is no ICICLE Community Call in July as we will be meeting in person at CMU!
- c. Our next Community Call will be on 16 August with a focus on outcomes and next steps from the conference:

## 28. Today's Topic and Speaker...

### **Making the most of the 2023 ICICLE Conference**

Presented by Erin Czerwinski and Rachel Van Campenhout and...  
Members of the 2023 Conference Committee

## **ICICLE Community Call: 17 May 2023, Noon EDT**

**Attending:** Michael Jay, Megan Torrance, Alyssa Arre, Amparo E. Bayless, Amy Parent, Anne Knowles, Arleya, Brooke Kindleman, Caitlin Lim, Eddie, Elias Poitras-White, Emily Marasco, Avron Barr, Jeanine DeFalco, Jeff Hodson, Jim Goodell, Jodi Lis, John Costa, Kayla Morehead, khawla, Kristin Torrence, Lauren Totino, Leslie Early, Lisa Plescia, Milana Grozic, Mollie McCormick, Nyomi, Oliver Pincus, Sae, Shira Fruchtman, Tony Jimenez, Tracy, Zachary Zidek, Zarka Ali, Andrew McCallister

## 29. Review of the Agenda and any additions (MJay) (1 min)

## 30. New participants - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a. Megan Torrance, TorranceLearning, mtorrance@torrancelearning.com , CEO of TorranceLearning, author of *Agile for Instructional Designers* and *Data & Analytics for Instructional Designers*, founder of the xAPI Learning Cohort
  - i. We have created an xAPI Concepts Viewer to help developers organize their data for xAPI projects: <https://tools.xapi.ly/concepts/#/>
  - ii. The Learning Guild has a survey open on organizational use of learning data & analytics. Survey is open through May 19: <https://survey.alchemer.com/s3/7258221/Learning-Analytics>
  - iii.
- b. Alyssa Arre, MIT Open Learning, arre@mit.edu, Learner Success & Data Coordinator
- c. Khawla Shnaikat, I am a first year PhD student in Software Engineering who is seeking more knowledge about Learning Engineering and Education Engineering. Khawla.shnaikat@ucalgary.ca

- d. Milana Grozic, Student at the University of British Columbia / Summer Research Assistant at the University of Calgary, [milana.grozic@ucalgary.ca](mailto:milana.grozic@ucalgary.ca)
- e. Brooke Kindleman, Software engineering student at University of Calgary / Summer Research Assistant at the University of Calgary. [brooke.kindleman@ucalgary.ca](mailto:brooke.kindleman@ucalgary.ca)
- f.
- g.


### 31. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout

- a. Save the date! July 24-26 at CMU in Pittsburgh, PA
  - i. Next Conference Committee Meeting is **Monday, May 22nd** at 1pm ET
- b. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- c. Sign up to be on the committee: Name and email address. (Erin will add you to calendar invites for subsequent meetings.)
  - i.
- d. [Conference registration](#) (Early bird ends May 30)
- e. [Call for Proposals](#) - Completed - Status?
- f. Contributions - coming soon!
- g. Video Contest - look for it on Twitter and/or LinkedIn! Ends on 23 May!
  - i. <https://twitter.com/ieeicicle>
  - ii. <https://www.linkedin.com/groups/12188841/>
- h. [2022 Web page](#) (Thanks Jodi!)
- i. Proceedings
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- j. Request: Asynchronous participation opportunity for international colleagues

### 32. Learning Engineering Primer - Jodi Lis

- a. Next Steps

### 33. Calendar of Conferences and Meetings - Jim Paradiso

- a.  Conferences + Events of Interest to LE
- b. See also:
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  - ii. [2023 Education Conferences](#) – General list of education confs
  - iii. [Class Central](#) – Article of conference on online learning
  - iv. [Bizzabo's Education Conferences](#) – EdTech conferences
  - v. [Conference Index](#) – eLearning related conferences
  - vi. [WikiCFP: Wiki for Call for Papers](#) – All academic calls for papers
  - vii. [AIED](#) (Artificial Intelligence in Education)- July 3 - 7, Tokyo
  - viii. [Learning at Scale](#) - July 20 - 22, Copenhagen, Denmark
  - ix. [DevLearn xAPI User Conference](#) - Oct 25, Las Vegas

### 34. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**What have you discovered related to LE in ‘the literature’ to inform your work?** (provide reference and context)

- a. May 2023
  - i.
- b. April 2023
  - i. [Data-Informed Course Improvement: The Application of Learning Engineering in the Classroom](#) by Anne Fensie; presenting at ISLS in June in Montreal
  - ii.
- c. March 2023
  - i. Scotty - [Journal of Military Learning](#) by Jim Goodell et al. on LE
  - ii. Scotty - HFES (Human Factors and Ergonomics Society) possible panel in October in DC

**How are you using the book?**

- o. In May people reported:
  - i.
- p. In March people reported:
  - i. Aaron: Discussed LE and the book as part of panel at MIT J-WEL event - <https://jwel.mit.edu/events/j-wel-architectures-learning>
  - ii. Scotty - Using the Toolkit to teach a LE class (6 students now) Students working as a team to building an LE podcast
- q. In January people reported:
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  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
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  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- t. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each

- iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
- iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
- v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
- vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
- vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
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  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

### 35. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Get out the word about the conference!
- c. Looking for volunteers for the **2024** ICICLE Conference Committee
  - i. Want to have a core committee formed prior to the 2023 Conference. Please sign up with your name and email address:
    1. Tracy Arner - [tarner@asu.edu](mailto:tarner@asu.edu)
    2. Zachary Zidek - [zachary.zidek@asu.edu](mailto:zachary.zidek@asu.edu)
    3. Zarka Ali

### 36. SIG Updates

- a. **Competencies Credentialing Curriculum**  
 Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &  
 Evangeline Schepper ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))
  - i. Next Mtg: **Friday, 26 May at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
  - ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
 Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  - iii. Or leave your name and email here:
    - 1.

**b. Design for Learning**

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **Tuesday, May 30th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  - 1.

**c. Tools & Instrumentation**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)

- i. Meets the last Thursday of each month: **Thursday, May 25th, 2023**
- ii. Working on survey to collect tools information ([preview](#)).
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):
  1. Gautam, gyadav@cmu.edu

**d. Students & Grads SIG**

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting is **Wednesday June 14th, 4-5pm ET**
- ii. Also includes some aspiring to be learning engineers
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email here:
  - 1.

**37. MIG Updates (Market Interest Group)**

**a. Higher Ed MIG**

**Emily Marasco** ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)) & co-chair **Rob Nyland**

([robert.nyland@au.af.edu](mailto:robert.nyland@au.af.edu))

- i. Themes: Identification, Visibility, Collaboration
- ii. May meeting was a working meeting on our submission for the ICICLE conference.
- iii. June meeting will be another meeting on our activity logistics for the submission.
- iv. Co-chair position has been filled- thank you to Rob Nyland!
- v. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, June 6th**.

- vi. Interested in participating, leave your name and email here:
  - 1.

**b. Corporate MIG**

Eddie Lin ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. We have new chairs!
- ii. Evaluating naming Workforce MIG or Talent Development MIG
- iii. Studying GenAI - guest speaker
- iv. Generally meets the last Friday of the month at 10amCT
- v. The next meeting is **Friday, May 26th**.
- vi. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- vii. [Shared folder](#)
  - [Corporate L&D leaders Interviews & Highlights of interviews](#)
- viii. Corporate and L&D Generative AI utilization survey
  - 1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- ix. Data and Analytics text  
(<https://www.td.org/book/data-analytics-for-instructional-designers>)
- x. Interested in participating, leave your name and email here:
  - 1.

**c. pK-12 MIG**

Zarka Ali ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)) &

Michael Jay ([michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
- ii. Next meeting in on **Wednesday, 14 June** at 9amPT/NoonET
- iii. **Agenda and notes:**
  - [☰ ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iv. **Conference Session Submitted:** 6 Scenarios looking at different aspects of pK-12 Education - Generate LE informed strategy to address these: (just ideas)
  - 1. Product design
  - 2. Teacher preparation
  - 3. Curriculum Design
  - 4. Assessment design
  - 5. Instructional strategy/design
  - 6. Product improvement through LE
- v. We are working on four initial deliverables to engage the pK-12 LE community:
  - 1. "How to guarantee failure in affecting educational change", LE Edition (Lead: Michael Jay)
  - 2. Document collection/reference of LE in research and practice (Lead: Zach Goldman)



3. LE case studies in pK-12 (Lead: TBD (Adam Sparks and Zarka Ali))
4. LE Primer for pK-12 (Lead: TBD (Gerri + others))
- vi. Interested in participating, leave your name and email here:
  - 1.

### 38. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (COMPLETE) March 13-17, 2023 [LAK23](#)
- f. (COMPLETE) April 12-14 [Learning Solutions](#)
- g. (COMPLETE) April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. (COMPLETE) April 18-21, [OLC Innovate](#)
- i. May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. June 13-17, [ISLS 2023, Montreal and online](#)
- k. June 18-21 Canadian Engineering Education Association annual conference
- l. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. June 26, 2023, [CDIO](#)
- o. July 3-7, [AIED'23](#), Tokyo
- p. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 16-22, [AECT](#) in Orlando, FL
- t. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- u. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- v.

**Any others?**

### 39. Final Mtg Items:

- a. Announcements from participants
  - i. IEEE AIS Ethics Standards
    1. Thursday, May 18, 2023 · 9:00 – 10:00am EST
    2. Google Meet joining info:  
<https://meet.google.com/jud-tuhg-obe>  
 Join by phone  
 (US) +1 321-586-0518  
 PIN: 194788615

3. Agenda is available at

[https://docs.google.com/document/d/1U\\_ywNQ0lqzVecEd10UK0iKivGP9C2I-c](https://docs.google.com/document/d/1U_ywNQ0lqzVecEd10UK0iKivGP9C2I-c)

ii.

iii.

b. The next ICICLE Community Call is on **Wednesday 21 June 2023** at 9amPT/NoonET. Our discussion topic will be:

**Making the most of the 2023 ICICLE Conference**

Presented by members of the 2023 Conference Committee

**40. Today's Topic and Speaker...**

**Care and feeding of xAPI adopters**

**Megan Torrance - CEO TorranceLearning**

Megan Torrance is CEO and founder of TorranceLearning, which helps organizations connect learning strategy to design, development, data, and ultimately performance. She has more than 25 years of experience in learning design, deployment, and consulting . Megan and the TorranceLearning team are passionate about sharing what works in learning, so they devote considerable time to teaching and sharing about Agile project management for learning experience design and the xAPI. She is the author of Agile for Instructional Designers, The Quick Guide to LLAMA, and Making Sense of xAPI. Megan is also an eCornell Facilitator in the Women's Executive Leadership curriculum.

## **ICICLE Community Call: 19 April 2023, Noon EST**

**Attending:** Michael Jay, Aaron Kessler, Alejandro Dever, Amy Parent, Andrew McCallister, Anne Fensie, Avron Barr, Eddie(?), Emily Marasco, Erin Czerwinski, Gautam(?), Gerri Light, Gisse Peralta, Ian Gibson, James Paradiso, Jodi Lis, John Costa, Katherine McEldoon, Lauren Totino, Muffie Wiebe Waterman, Oliver Pncus, Omotayo Olorunfemi, Rachel Van Campenhout, Sae Schatz, Shira Fruchtman, Tracy Arner, Vic Vuchic, Zachary Zidek

**41. Review of the Agenda** and any additions (MJay) (1 min)

**42. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

a. Alejandro Dever

**43. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout**

a. Save the date! July 24-26 at CMU in Pittsburgh, PA


i. Next Conference Committee Meeting is **Monday, April 24th** at 1pm ET

- b. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- c. Sign up to be on the committee: Name and email address. (Erin will add you to calendar invites for subsequent meetings.)
  - i. Gautam Yadav, gyadav@andrew.cmu.edu
- d. [Conference registration](#) (Early bird ends May 30)
- e. [Call for Proposals](#)
- f. Contributions - coming soon!
- g. Video Contest - look for it on Twitter and/or LinkedIn!
  - i. <https://twitter.com/ieeicicle>
  - ii. <https://www.linkedin.com/groups/12188841/>
- h. [2022 Web page](#) (Thanks Jodi!)
- i. Proceedings
  - i. Link to the [2019 ICICLE Proceedings](#)
- j. Request: Asynchronous participation opportunity for international colleagues

#### 44. Learning Engineering Primer - Jodi Lis

- a. Process explained
- b. Form link here:

#### 45. Calendar of Conferences and Meetings - Jim Paradiso

- a.  Conferences + Events of Interest to LE
- b. See also:
  - i. [TeachOnline.CA](#) – Professional Development in Edu + Technology
  - ii. [2023 Education Conferences](#) – General list of education confs
  - iii. [Class Central](#) – Article of conference on online learning
  - iv. [Bizzabo's Education Conferences](#) – EdTech conferences
  - v. [Conference Index](#) – eLearning related conferences
  - vi. [WikiCFP: Wiki for Call for Papers](#) – All academic calls for papers

#### 46. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**What have you discovered related to LE in 'the literature' to inform your work?** (provide reference and context)

- a. April 2024
  - i. [Data-Informed Course Improvement: The Application of Learning Engineering in the Classroom](#) by Anne Fensie; presenting at ISLS in June in Montreal
  - ii.
- b. March 2023
  - i. Scotty - [Journal of Military Learning](#) by Jim Goodell et al. on LE
  - ii. Scotty - HFES (Human Factors and Ergonomics Society) possible panel in October in DC

## How are you using the book?

- v. In April people reported:
  - i.
- w. In March people reported:
  - i. Aaron: Discussed LE and the book as part of panel at MIT J-WEL event - <https://jwel.mit.edu/events/j-wel-architectures-learning>
  - ii. Scotty - Using the Toolkit to teach a LE class (6 students now) Students working as a team to building an LE podcast
- x. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a “leave behind” to allow folks to dig more deeply on their own time.
- y. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- z. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- aa. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- bb. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students

- iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

#### 47. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Get out the word about the conference!
- c. Submit presentations for the conference.

#### 48. SIG Updates

##### a. Competencies Credentialing Curriculum

Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &

Evangeline Schepper ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))

- i. Next Mtg: **Friday, 28 April at 3pm ET.**  
<https://us02web.zoom.us/j/2895986276?from=addon>
- ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iii. Or leave your name and email here:
  - 1.

##### b. Design for Learning

Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **Tuesday, April 25th.** Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:  
Gautam, [gyadav@cmu.edu](mailto:gyadav@cmu.edu)

##### c. Tools & Instrumentation

Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)

- i. Meets the last Thursday of each month: **Thursday, April 27th, 2023**
- ii. Working on survey to collect tools information ([preview](#)).
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email address here (and/or join the next meeting):

1. Gautam, gyadav@cmu.edu

d. **Students & Grads SIG**

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting is **Wednesday May 10th, 4-5pm ET**
- ii. Also includes some aspiring to be learning engineers
- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email here:
  - 1.

49. **MIG Updates (Market Interest Group)**

a. **Higher Ed MIG**

**Emily Marasco**, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca) & co-chair (TBD)

- i. Themes: Identification, Visibility, Collaboration
- ii. April meeting was a working meeting on our planned deliverables- currently defining universal language for learning engineering in higher ed. Going to move towards the “bridges” into learning engineering and common language with scholarship of teaching and learning.
- iii. Preparing a proposal for the conference- contact Emily if you’d like to participate in the submission.
- iv. Co-chair position tentatively filled.
- v. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Tuesday, May 2nd**.
- vi. Interested in participating, leave your name and email here:
  - 1.

b. **Corporate MIG**

**Eddie Lin** ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

**John Costa** ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. We have new chairs!
- ii. Generally meets the last Friday of the month at 10amCT
- iii. The next meeting is **Friday, April 28th**.
- iv. If you’d like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- vi. Corporate and L&D Generative AI utilization survey
  1. <https://forms.gle/7WPez14Qs8Gw1Gya9>
- vii. Data and Analytics text  
(<https://www.td.org/book/data-analytics-for-instructional-designers>)

viii. Interested in participating, leave your name and email here:

1.

c. **pK-12 MIG**

Zarka Ali ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)) &

Michael Jay ([michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net))

i. Meets the 2nd Wednesday of the month at 9amPT/NoonET

ii. Next meeting in on **Wednesday, 10 May** at 9amPT/NoonET

iii. **Agenda and notes:**

**☰ ICICLE pK-12 Market Interest Group (MIG) Agenda and Notes**

iv. **Conference Session:** 6 Scenarios looking at different aspects of pK-12 Education - Generate LE informed strategy to address these: (just ideas)

1. Product design

2. Teacher preparation

3. Curriculum Design

4. Assessment design

5. Instructional strategy/design

6. Product improvement through LE

v. We are working on four initial deliverables to engage the pK-12 LE community:

1. “How to guarantee failure in affecting educational change”,  
LE Edition (Lead: Michael Jay)

2. Document collection/reference of LE in research and practice  
(Lead: Zach Goldman)

3. LE case studies in pK-12 (Lead: TBD (Adam Sparks and Zarka Ali))

4. LE Primer for pK-12 (Lead: TBD (Gerri + others))

vi. Interested in participating, leave your name and email here:

1.

**50. Events ICICLE participants are looking forward to in 2023**

a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA

b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA

c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX

d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX

e. (COMPLETE) March 13-17, 2023 [LAK23](#)

f. (COMPLETE) April 12-14 [Learning Solutions](#)

g. April 17-19 [ASU/GSViTICSE/SIGCSE](#)

h. April 18-21, [OLC Innovate](#)

i. May 21 - 24, 2023 [ATD International Conference and Expo](#)

j. June 13-17, [ISLS 2023, Montreal and online](#)

k. June 18-21 Canadian Engineering Education Association annual conference

- l. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. June 26, 2023, [CDIO](#)
- o. July 3-7, [AIED'23](#), Tokyo
- p. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 16-22, [AECT](#) in Orlando, FL
- t. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- u. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- v.

### Any others?

### 51. Final Mtg Items:

- a. Announcements from participants
  - i.
  - ii.
- b. The next ICICLE Community Call is on **Wednesday 17 May 2023** at 9amPT/NoonET. Our guest speaker will be:

**Megan Torrance - CEO, TorranceLearning**

### 52. Today's Speaker...

**Vic Vuchic, Chief Strategy Officer, Digital Promise**

**“The Learner Variability Project, an initiative to make research actionable”**

<https://vp.digitalpromiseglobal.org/>

While Vic may not yet know it he is definitely a Learning Engineer! Vic is an expert in learning science, innovation, and scaling what works and has launched game-changing initiatives that have increased access to education and improved learning for tens of millions of learners in the Americas, Europe, Asia, and Africa. Prior to Digital Promise Global, Vic consulted with a number of foundations and organizations on education technology, innovation and philanthropy. Prior to consulting, Vic developed strategies and managed over \$100 million in technology-focused grants at the Hewlett Foundation to launch and grow the Open Educational Resources (OER) movement and create and advance the Deeper Learning strategy. Vic completed a master's degree in education and technology at Stanford University and a bachelor's degree in systems engineering at the University of Pennsylvania. Previous experience includes working at startups in Silicon Valley for eight years with expertise in human-centric system design and innovation methodologies.

- See the open-source/OER [Learner Variability Navigator](#)
- Including the [Learner-Centered Design Tool](#) (free registration required)



- LVN and its tools also have an open API that can be integrated into tools

## **ICICLE Community Call: 15 March 2023, Noon EST**

**Attending:** Erin Czerwinski, Michael Jay, Avron Barr, Caitlin Lim, Danielle McNamara, Eddie, Emily Marasco, George, Gerri, Janet, Lauren, Lynn Wietecha (Imillerwi@ltu.edu), Nolan, Omotayo Omotayo Olorunfemi, Scotty, Shira Fruchtman, Yeeva Cheng, Anne Fensie, Neil Thawani, Aaron Kessler, Tracy Arner, Jodi Lis, Zarka Ali, Tracy Arner, Abby Bergman, Caitlin, Dina, George Stein, Mollie Mc, Lynn Wietecha, Laura Lukes, Katherine McEldoon, Stuart Rice

**53. Review of the Agenda** and any additions (MJay) (1 min)

**54. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a. Yeeva Cheng, The Learning Agency, yeeva@the-learning-agency.com

**55. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout**

- a. Save the date! July 24-26 at CMU in Pittsburgh, PA
- b. Next Conference Committee Meeting is on **Monday, March 27** at 1pm ET
- c. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- d. Sign up to be on the committee: Name and email address. (Erin will add you to calendar invites for subsequent meetings.)
  - i.
- e. For everyone...please take a few minutes and fill in responses to these prompts:
  - i. Guest Speakers - "I'd like to hear from..."
    1. Would you like to hear how the Armed Forces of Ukraine are using LE? The head of ADL for AFU (Col Maksym Tyshchenko, PhD) would probably Zoom-in and present (but it may not be the right tone, IDK).
  - ii. Program/Session Themes - "I would like to know more about..."
    1. Components and design patterns for learning engineering
    - 2.
  - iii. Active Learning Sessions - "I need practice in..."
    1. Applying the Learning Engineering Process
  - iv. Other -
- f. Proceedings
  - i. Link to the [2019 ICICLE Proceedings](#)
  - ii. Initially, we decided not to create proceedings due to the level of effort, but we revisited this decision because many people benefit from having a proceedings entry on their CVs, and this may be an opportunity for collaborative development.

- iii. Recommendation: Interactive co-development of something during the event, e.g., mural board, collaborative write-up. Example from [AREA](#).
- iv. To get sufficient “professor points” contributors need:
  - 1. Peer review process beforehand
  - 2. Credible publishing with an enduring source
- v. Sae offered to help Erin et al. with the typesetting and sharing lessons learned with publishing proceedings, e.g., with CRC Press (part of Taylor Francis).
- vi. Another option is to publish a special issue journal post-conference. This is more effort, but also more “professor points.”

## 56. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**What have you discovered related to LE in ‘the literature’ to inform your work?** (provide reference and context)

- a. March 2023
  - i. Scotty - Journal of Military Learning, new article by Jim Goodell on LE
  - ii. Scotty - HFES (Human Factors and Ergonomics Society) possible panel in October in DC

**How are you using the book?**

- cc. In March people reported:
  - i. Aaron: Discussed LE and the book as part of panel at MIT J-WEL event - <https://jwel.mit.edu/events/j-wel-architectures-learning>
  - ii. Scotty - Using the Toolkit to teach a LE class (6 students now) Students working as a team to building an LE podcast
- dd. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a “leave behind” to allow folks to dig more deeply on their own time.
- ee. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- ff. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. **Jim Goodell** and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC

- iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- gg. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- hh. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

## 57. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. **Congratulations to an ICICLEist...**
  - i. Jessie Chuang is stepping down as lead of the Corporate MIG. Started the group early on and has provided great leadership.
  - ii. Zach Goldman accepted the role of Secretary for the Learning Technologies Standards Committee (LTSC)
- c. **ICICLE Periodical Development**
  - i. 1st Meeting was on 26 January, Next Mtg TBD
  - ii. Quick overview of the discussion
  - iii. Summary... lots of ideas - lots of opportunities!
  - iv. Interested in participating?
    - 1. Anne Fensie, [anne.fensie@maine.edu](mailto:anne.fensie@maine.edu)

## 58. SIG Updates

- a. **Competencies Credentialing Curriculum**  
Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) &

Evangeline Schepper ([eschepper@quanthub.com](mailto:eschepper@quanthub.com))

- i. Next Mtg: **31 March at 3pm ET**.  
<https://us02web.zoom.us/j/2895986276?from=addon>
- ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iii. Or leave your name and email here:
  1. Danielle McNamara
  2. Omotayo Olorunfemi ([omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com))
  3. Yeeva Cheng, [yeeva@the-learning-agency.com](mailto:yeeva@the-learning-agency.com)
  4. Jessica Johnson, [j17johnso@odu.edu](mailto:j17johnso@odu.edu)

**b. Design for Learning**

**Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) &

**Amy Parent** ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **March 28th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
- iii. Janet about to send an email about setting up the first meeting of the design patterns subgroup; not sure what, exactly, it will include, but let her/me know if you are interested: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu).
  1. Omotayo Olorunfemi ([omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com))
  2. Jessica Johnson ([j17johnso@odu.edu](mailto:j17johnso@odu.edu))

**c. Tools & Instrumentation**

**Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)

- i. Meets the last Thursday of each month: **March 30, 2023**
- ii. [Meeting notes and agenda](#)
- iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
  1. Jessica Johnson, [j17johnso@odu.edu](mailto:j17johnso@odu.edu), Virginia Modeling Analysis & Simulation Center Old Dominion University

**d. Students & Grads SIG**

**Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) &

**Janet Kolodner** ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))

- i. Meets monthly: Next meeting is **April 12, 4-5pm ET**
- ii. Also includes some aspiring to be learning engineers

- iii. [Meeting notes and agenda](#)
- iv. Interested in participating, leave your name and email here:
  1. Yeeva Cheng, [yeeva@the-learning-agency.com](mailto:yeeva@the-learning-agency.com)
  2. Omotayo Olorunfemi ([omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com))

## 59. MIG Updates (Market Interest Group)

### a. Higher Ed MIG

**Emily Marasco**, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca) & co-chair (TBD)

- i. Themes: Identification, Visibility, Collaboration
- ii. March meeting was an asynchronous working meeting on our planned deliverables- currently defining universal language for learning engineering in higher ed.
- iii. Actively recruiting a co-chair, contact Emily if you are interested.
- iv. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **April 4th**.
- v. Interested in participating, leave your name and email here:
  1. Tracy Arner, [tarner@asu.edu](mailto:tarner@asu.edu)
  2. Jessica Johnson, [j17johnso@odu.edu](mailto:j17johnso@odu.edu)

### b. Corporate MIG

Eddie Lin ([ecyl5168@gmail.com](mailto:ecyl5168@gmail.com)) &

John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

- i. We have new chairs!
- ii. Generally meets the last Friday of the month at 10amCT
- iii. The next meeting is **24 March (Friday) - interview with Jennifer Rogers**
- iv. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
- vi. Interested in participating, leave your name and email here:
  1. Tracy Arner - [tarner@asu.edu](mailto:tarner@asu.edu)

### c. pK-12 MIG

Zarka Ali ([zarka.zahid@gmail.com](mailto:zarka.zahid@gmail.com)) &

Michael Jay ([michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net))

- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
- ii. Next meeting in on Wednesday **12 April** at 9amPT/NoonET
- iii. **Agenda and notes:**  
[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
- iv. We are working on four initial deliverables to engage the pK-12 LE community:

1. “How to guarantee failure in affecting educational change”, LE Edition (Lead: Michael Jay)
2. Document collection/reference of LE in research and practice (Lead: Zach Goldman)
3. LE case studies in pK-12 (Lead: TBD (Adam Sparks and Zarka Ali))
4. LE Primer for pK-12 (Lead: TBD (Gerri + others))
- v. Interested in participating, leave your name and email here:
  1. Yeeva Cheng, [yeeva@the-learning-agency.com](mailto:yeeva@the-learning-agency.com)
  2. Omotayo Olorunfemi ([omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com))
  3. Abby Bergman ([abbybergman1011@gmail.com](mailto:abbybergman1011@gmail.com))
  4. Tracy Arner, [tarner@asu.edu](mailto:tarner@asu.edu)

## 60. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. (In Process) March 13-17, 2023 [LAK23](#)
- f. April 12-14 [Learning Solutions](#)
- g. April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. April 18-21, [OLC Innovate](#)
- i. May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. June 13-17, [ISLS 2023, Montreal and online](#)
- k. June 18-21 Canadian Engineering Education Association annual conference
- l. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- m. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- n. June 26, 2023, [CDIO](#)
- o. July 3-7, [AIED'23](#), Tokyo
- p. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- q. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- r. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- s. Oct 16-22, [AECT](#) in Orlando, FL
- t. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- u. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- v.

**Any others?**

## 61. Final Mtg Items:

- a. Announcements from participants

- i. Just published my first first-author empirical research article:  
<https://link.springer.com/article/10.1007/s12528-023-09359-0>
- b. The next ICICLE Community Call is on **Wednesday 19 April 2023** at 9amPT/NoonET. Our guest speaker will be:
  - i. Vic Vuchic, Chief Strategy Officer at Digital Promise & Learner Variability Project lead

## 62. Today's Speaker...

**Danielle McNamara**, Professor in the Department of Psychology and Executive Director of the Learning Engineering Institute at [Arizona State University](#).

Danielle is speaking on the vision of the Learning Engineering Institute at ASU that will focus on actionable questions, goals, and results. She is an expert in the fields of cognitive and learning sciences, comprehension, writing, natural language processing (NLP), intelligent tutoring, and artificial intelligence in education.

## ICICLE Community Call: 15 February 2023, Noon EST

**Attending:** Erin Czerwinski, Michael Jay, Jim Goodell, Gerri Light, Sae Schatz, Aaron Kessler, Amy Parent, Andy Johnson, Lauren Totino, Avron Barr, Barbara Buck, Bill Brantley, Caitlin Lim, Emily Marasco, Eric Kuhn, Erin Czerwinski, Gerri Light, Jennifer Abramowitz, Shira Fruchtman, Jennifer Rogers, Jim Goodell, Jodi Lis, John Murray, Dina Kurzweil, Lauren Totino, Lisa Jones, Nolan Lovett, Oliver Pincus, Omotayo Olorunfemi, Vlad, Zarka Ali

1. **Review of the Agenda** and any additions (MJay) (1 min)
2. **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Eric Kuhn with SparkLearn, [ekuhn@sparklearn.com](mailto:ekuhn@sparklearn.com)
3. **2023 Conference - Erin Czerwinski and Rachel Van Campenhout**
  - a. Save the date! July 24-26
  - b. Next Conference Committee Meeting is on **Monday, February 27** at 1pm ET
  - c. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
  - d. Sign up to be on the committee: Name and email address. (Erin will add you to calendar invites for subsequent meetings.)
    - i.
  - e. For everyone....please take a few minutes and fill in responses to these prompts:
    - i. Guest Speakers - "I'd like to hear from...."

1. Would you like to hear how the Armed Forces of Ukraine are using LE? The head of ADL for AFU (Col Maksym Tyshchenko, PhD) would probably Zoom-in and present (but it may not be the right tone, IDK).
- ii. Program/Session Themes - "I would like to know more about..."
  1. Components and design patterns for learning engineering
  - 2.
- iii. Active Learning Sessions - "I need practice in..."
  1. Applying the Learning Engineering Process
- iv. Other -
- f. Proceedings
  - i. Link to the [2019 ICICLE Proceedings](#)
  - ii. Initially, we decided not to create proceedings due to the level of effort, but we revisited this decision because many people benefit from having a proceedings entry on their CVs, and this may be an opportunity for collaborative development.
  - iii. Recommendation: Interactive co-development of something during the event, e.g., mural board, collaborative write-up. Example from [AREA](#).
  - iv. To get sufficient "professor points" contributors need:
    1. Peer review process beforehand
    2. Credible publishing with an enduring source
  - v. Sae offered to help Erin et al. with the typesetting and sharing lessons learned with publishing proceedings, e.g., with CRC Press (part of Taylor Francis).
  - vi. Another option is to publish a special issue journal post-conference. This is more effort, but also more "professor points."

#### 4. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

**How are you using the book?**

- a. In February people reported:
  - i.
- b. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a "leave behind" to allow folks to dig more deeply on their own time.
- c. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).



- iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- d. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- e. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- f. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

## 5. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Some ICICLE Google Docs have been compromised so...
  - i. We're locking them down a bit more
  - ii. If you see something that just looks wrong, please reporting it to your SIG or MIG chair
- c. What is [IEEE Education Week](#)? (2 April – 8 April 2023)
  - i. "IEEE Education Week is a weeklong celebration of educational opportunities provided by IEEE and its many organizational units, societies, and councils from around the world. IEEE Education Week is a great way to explore education programs and offerings from IEEE."
  - ii. Examples of events:

1. Professional Development Workshop: Critical Thinking Skills
2. Micro Tutorial: Introduction to Agile Methodology
3. IEEE Education Week – ISBAT University, Kampala, Uganda

**d. ICICLE Periodical Development**

- i. 1st Meeting was on 26 January, Next Mtg on Thursday 2 March at 1pmPT
- ii. Quick overview of the discussion
- iii. Summary... lots of ideas - lots of opportunities!
- iv. Interested in participating?
  - 1.

**6. SIG Updates**

**a. Competencies Credentialing Curriculum - Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) & co-chair (TBD)**

- i. Next Mtg: **TBD (2nd Friday of every month) at 3pm ET.**  
<https://ieeesa.webex.com/meet/jgoodell>
- ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
- iii. Or leave your name and email here:
  - 1.

**b. Design for Learning - Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu)) & Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))**

- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
- ii. Next meeting: **February 28th.** Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
- iii. Janet about to send an email about setting up the first meeting of the design patterns subgroup; not sure what, exactly, it will include, but let her/me know if you are interested: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu).
  - 1.

**c. Tools & Instrumentation - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)**

- i. Meets the last Thursday of each month: **February 23, 2023**
- ii. [Meeting notes and agenda](#)
- iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
  - 1.

- d. **Students & Grads SIG** - Lauren Totino ([ltotino@mit.edu](mailto:ltotino@mit.edu)) & Janet Kolodner ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))
  - i. Meets monthly: Next meeting is **March 8, 4-5pm ET**
  - ii. Also includes some aspiring to be learning engineers
  - iii. [Meeting notes and agenda](#)
  - iv. Interested in participating, leave your name and email here:
    - 1.

## 7. MIG Updates

- a. **Higher Ed MIG** - Emily Marasco, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca) & co-chair (TBD)
  - i. Themes: Identification, Visibility, Collaboration
  - ii.
  - iii. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **March 7th**.
  - iv. Interested in participating, leave your name and email here:
    - 1.
  
- b. **Corporate MIG** - Eddie Lin & John Costa
  - i. We have new chairs!
  - ii. Generally meets the last Friday of the month at 10amCT
  - iii. The next meeting is **24 March**
  - iv. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - vi. Interested in participating, leave your name and email here:
    - 1.
  
- c. **pK-12 MIG** - Michael Jay & Zarka Ali
  - i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii. Next meeting in on **11 April**
  - iii. **Agenda and notes:**  
[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
  - iv. We'll start evaluating ideas generated as to the work we want to focus on moving ahead.
  - v. Interested in participating, leave your name and email here:
    - 1.
    - 2.

## 8. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA

- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. (COMPLETE) March 6-9, [SxSWEdu](#) in Austin, TX
- e. March 13-17, 2023 [LAK23](#)
- f. April 12-14 [Learning Solutions](#)
- g. April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. April 18-21, [OLC Innovate](#)
- i. May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. June 13-17, [ISLS 2023, Montreal and online](#)
- k. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- l. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- m. June 26, 2023, [CDIO](#) and CEEA
- n. July 3-7, [AIED'23](#), Tokyo
- o. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- p. July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- q. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- r. Oct 16-22, [AECT](#) in Orlando, FL
- s. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany
- t. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- u.

**Any others?**

## **9. Final Mtg Items:**

- a. Announcements from participants
  - i.
- b. The next ICICLE Community Call is on **Wednesday 15 March 2023** at 9amPT/NoonET. Our guest speaker will be:
  - i.

## **10. Today's Speaker...**

**Sae Schatz - Bedrock Learning Board of Advisors &**

**former Director, Advanced Distributed Learning (ADL) Initiative**

Speaking on the concept of a "learning ecosystem," an interconnected lifelong system-of-systems that blends formal and informal learning, adapts to individuals' characteristics and context, and is enabled by emerging technologies, learning analytics, and learning science principles.

# ICICLE Community Call: 15 February 2023, Noon EST

**Attending:** Erin Czerwinski, Michael Jay, Jim Goodell, Gerri Light, Sae Schatz, Aaron Kessler, Amy Parent, Andy Johnson, Lauren Totino, Avron Barr, Barbara Buck, Bill Brantley, Caitlin Lim, Emily Marasco, Eric Kuhn, Erin Czerwinski, Gerri Light, Jennifer Abramowitz, Shira Fruchtman, Jennifer Rogers, Jim Goodell, Jodi Lis, John Murray, Dina Kurzweil, Lauren Totino, Lisa Jones, Nolan Lovett, Oliver Pincus, Omotayo Olorunfemi, Vlad, Zarka Ali

**11. Review of the Agenda** and any additions (MJay) (1 min)

**12. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a. Eric Kuhn with SparkLearn, ekuhn@sparklearn.com

**13. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout**

- a. Save the date! July 24-26
- b. Next Conference Committee Meeting is on **Monday, February 27** at 1pm ET
- c. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- d. Sign up to be on the committee: Name and email address. (Erin will add you to calendar invites for subsequent meetings.)
  - i.
- e. For everyone....please take a few minutes and fill in responses to these prompts:
  - i. Guest Speakers - "I'd like to hear from...."
    1. Would you like to hear how the Armed Forces of Ukraine are using LE? The head of ADL for AFU (Col Maksym Tyshchenko, PhD) would probably Zoom-in and present (but it may not be the right tone, IDK).
  - ii. Program/Session Themes - "I would like to know more about...."
    1. Components and design patterns for learning engineering
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  - iii. Active Learning Sessions - "I need practice in...."
    1. Applying the Learning Engineering Process
  - iv. Other -
- f. Proceedings
  - i. Link to the [2019 ICICLE Proceedings](#)
  - ii. Initially, we decided not to create proceedings due to the level of effort, but we revisited this decision because many people benefit from having a proceedings entry on their CVs, and this may be an opportunity for collaborative development.
  - iii. Recommendation: Interactive co-development of something during the event, e.g., mural board, collaborative write-up. Example from [AREA](#).
  - iv. To get sufficient "professor points" contributors need:

1. Peer review process beforehand
  2. Credible publishing with an enduring source
- v. Sae offered to help Erin et al. with the typesetting and sharing lessons learned with publishing proceedings, e.g., with CRC Press (part of Taylor Francis).
  - vi. Another option is to publish a special issue journal post-conference. This is more effort, but also more “professor points.”

## 14. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

### How are you using the book?

- a. In February people reported:
  - i.
- b. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a “leave behind” to allow folks to dig more deeply on their own time.
- c. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- d. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- e. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow

- vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
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  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

## 15. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/JmRsng2Pz4>
- b. Some ICICLE Google Docs have been compromised so...
  - i. We're locking them down a bit more
  - ii. If you see something that just looks wrong, please reporting it to your SIG or MIG chair
- c. What is [IEEE Education Week](#)? (2 April – 8 April 2023)
  - i. "IEEE Education Week is a weeklong celebration of educational opportunities provided by IEEE and its many organizational units, societies, and councils from around the world. IEEE Education Week is a great way to explore education programs and offerings from IEEE."
  - ii. Examples of events:
    1. Professional Development Workshop: Critical Thinking Skills
    2. Micro Tutorial: Introduction to Agile Methodology
    3. IEEE Education Week – ISBAT University, Kampala, Uganda
- d. **ICICLE Periodical Development**
  - i. 1st Meeting was on 26 January, Next Mtg on Thursday 2 March at 1pmPT
  - ii. Quick overview of the discussion
  - iii. Summary... lots of ideas - lots of opportunities!
  - iv. Interested in participating?
    - 1.

## 16. SIG Updates

- a. **Competencies Credentialing Curriculum** - Jodi Lis ([jodillis@gmail.com](mailto:jodillis@gmail.com)) & co-chair (TBD)
  - i. Next Mtg: **TBD (2nd Friday of every month) at 3pm ET.**  
<https://ieesa.webex.com/meet/jgoodell>
  - ii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>

- iii. Or leave your name and email here:
  - 1.
  
- b. **Design for Learning - Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu)) & Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))**
  - i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii. Next meeting: **February 28th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  - iii. Janet about to send an email about setting up the first meeting of the design patterns subgroup; not sure what, exactly, it will include, but let her/me know if you are interested: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu).
    - 1.
  
- c. **Tools & Instrumentation - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)**
  - i. Meets the last Thursday of each month: **February 23, 2023**
  - ii. [Meeting notes and agenda](#)
  - iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
    - 1.
  
- d. **Students & Grads SIG - Lauren Totino ([ltotino@mit.edu](mailto:ltotino@mit.edu)) & Janet Kolodner ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))**
  - i. Meets monthly: Next meeting is **March 8, 4-5pm ET**
  - ii. Also includes some aspiring to be learning engineers
  - iii. [Meeting notes and agenda](#)
  - iv. Interested in participating, leave your name and email here:
    - 1.

## 17. MIG Updates

- a. **Higher Ed MIG - Emily Marasco, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca) & co-chair (TBD)**
  - i. Themes: Identification, Visibility, Collaboration
  - ii.
  - iii. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **March 7th**.
  - iv. Interested in participating, leave your name and email here:
    - 1.



- b. **Corporate MIG** - Jessie Chuang and Brandt Dargue
  - i. Looking for a new chair! Great opportunity.
  - ii. Generally meets the last Friday of the month at 10amCT
  - iii. The next meeting is **24 March**
  - iv. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - v. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
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- c. **pK-12 MIG** - Michael Jay & Zarka Ali
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[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
  - iv. We'll start evaluating ideas generated as to the work we want to focus on moving ahead.
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    - 2.

## 18. Events ICICLE participants are looking forward to in 2023

- a. (COMPLETE) Jan 23-26, [FETC](#), New Orleans, LA
- b. (COMPLETE) Feb 7-9, ATD TechKnowledge, New Orleans, LA
- c. (COMPLETE) Feb 13-15, 2023, Digital Learning Annual Conference (DLAC), Austin, TX
- d. March 6-9, [SxSWEdu](#) in Austin, TX /)
- e. March 13-17, 2023 [LAK23](#)
- f. April 12-14 [Learning Solutions](#)
- g. April 17-19 [ASU/GSViTICSE/SIGCSE](#)
- h. April 18-21, [OLC Innovate](#)
- i. May 21 - 24, 2023 [ATD International Conference and Expo](#)
- j. June 13-17, [ISLS 2023, Montreal and online](#)
- k. xAPI Plugfest Week of June 22-23 Location: Tech Grove, Orlando
- l. June 25-28 [American Society for Engineering Education](#), Baltimore, MD
- m. June 26, 2023, [CDIO](#) and CEEA
- n. July 3-7, [AIED'23](#), Tokyo
- o. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India
- p. **July 24-26, ICICLE 2023, CMU in Pittsburgh, USA**
- q. July 20-22, [Learning@Scale](#), University of Copenhagen, Denmark
- r. Oct 16-22, [AECT](#) in Orlando, FL
- s. Oct 18-22, [Frankfurt Book Fair](#) in Frankfurt, Germany

- t. Nov 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)
- u.

### **Any others?**

### **19. Final Mtg Items:**

- a. Announcements from participants
  - i. MIT Open Learning Festival of Learning Keynote from Bror Saxberg and discussion can be watched - [https://www.youtube.com/watch?v=ivt7\\_cxHHDk&list=PLI5g5RWpdCgdfwFpqpY9sQpnxKtatHoX4](https://www.youtube.com/watch?v=ivt7_cxHHDk&list=PLI5g5RWpdCgdfwFpqpY9sQpnxKtatHoX4) full info here - <https://openlearning.mit.edu/mit-faculty/festival-learning>
- b. The next ICICLE Community Call is on **Wednesday 15 March 2023** at 9amPT/NoonET. Our guest speaker will be:
  - i. Danielle McNamara,

### **20. Today's Speaker...**

#### **Sae Schatz - Bedrock Learning Board of Advisors &**

#### **former Director, Advanced Distributed Learning (ADL) Initiative**

Speaking on the concept of a "learning ecosystem," an interconnected lifelong system-of-systems that blends formal and informal learning, adapts to individuals' characteristics and context, and is enabled by emerging technologies, learning analytics, and learning science principles.

- Ecosystem is the world and metaverse – all learning counts
  - Vs. a terrarium that is limited to an institution or LMS
  - Coherent Learning Ecosystem (whole world but with scaffolding)
- How:
  - Stop building islands
  - Common currency across islands (standards, competency definitions, credential definitions, semantic interoperability)
  - Scalable way: enterprise architecture
  - Learning engineering – the right teams and mindsets and processes
- Maturity model
  - Level 1 - only f2f and 1 size fits all, e.g. lectures
  - Level 2 - into LE, evaluate orgs baseline, track outcomes, document ICAM, explore use of tech, collect data (not used yet)
  - Level 3 - use competencies, LE, data from multiple sources, enterprise ICAM, start dev systems of system, some

continuum of learning across platforms, some feedback loops

- Level 4 - competency linked data, decentralized identifiers, DIDs, verifiable credentials, L&D catalogs, LE projects with AI, talent optimization
- Level 5 - data-driven across systems, mature competency-based approaches & data registry, ICAM fully mature, continuous improvement based on data, including external data sources, self-sovereign learning and learning records

Lego block castle rather than glass castle

## ICICLE Community Call : 18 January 2023, Noon EST

**Attending:** Erin Czerwinski, Michael Jay, Laura Lukes, Aaron Kessler, Lauren Totino, Dina Kurzweil, Shira Fruchtman, Sae Schatz, Lesley Freed, Lisa Jones, Zarka Ali, Dan Belenky, Athena Vo, Avron Barr, Albert Hu, John Costa, Caitlin Lim, Bill Jerome, Emily Marasco, Arun, Muffie Waterman, Albert Hu, Amy Parent, David Robson, Karen Rege, Gerri Light, Janet Kolodner, Hanshika Gupta, Jennifer Abramowitz, Bror Saxberg, Amy Parent, Jessie Chuang, Michelle Mitchell, Omotayo Olorunfemi, Katherine McEldoon, Katie, Neil Thawani, Rachel Van Campenhout, Maureen Glynn, Uttarika, Victoria Pylvainen, Vivek, Vlad Goodovsky, Whitney, Zachary Goldman, Hanshika Gupta, Jim Goodell, Jodi Lis, Nada Dabbagh, Anne Fensie, Kayla Morehead, Lesley Freed

**21. Review of the Agenda** and any additions (MJay) (1 min)

**22. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- Lesley Freed / [lesley.freed@learningmate.com](mailto:lesley.freed@learningmate.com) / LearningMate
- Jennifer Abramowitz, [jenwabram@gmail.com](mailto:jenwabram@gmail.com), Adtalem
- Whitney Whealdon, [whitney@learningtapestry.com](mailto:whitney@learningtapestry.com), Learning Tapestry
- Dan Belenky, [dmbelenk@gmail.com](mailto:dmbelenk@gmail.com)
- Kayla Morehead, [kmorehead25@gmail.com](mailto:kmorehead25@gmail.com), Denver Public Schools
- Victoria Pylvainen, [victoria.pylvainen@learningmate.com](mailto:victoria.pylvainen@learningmate.com), LearningMate
- Omotayo Olorunfemi [omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com) | Teachers Academy Africa
- Katie Dunn [katie.dunn@curriculumredesign.org](mailto:katie.dunn@curriculumredesign.org) | Center for Curriculum Redesign
- Vivek Rao [vivek.rao@esleave.com](mailto:vivek.rao@esleave.com) BitPupil Technologies India
- Albert Hu, [ahu@supertechft.org](mailto:ahu@supertechft.org), Supertech FT, [www.supertechft.org](http://www.supertechft.org)
- Hanshika Gupta / [hanshika02@gmail.com](mailto:hanshika02@gmail.com) / Walkman Lab India

**23. 2023 Conference** - Erin Czerwinski and Rachel Van Campenhout

- a. Save the date! July 24-26
- b. Other updates.
- c. Next Conference Committee Meeting is on **Monday, January 30** at 1pm ET
- d. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
- e. Sign up to be on the committee (whether you can attend the first meeting or not):  
Name and email address. Erin will add you to calendar invites for subsequent meetings.
  - i. Sae Schatz, [sae.schatz@gmail.com](mailto:sae.schatz@gmail.com)
- f. For everyone....please take a few minutes and fill in responses to these prompts:
  - i. Guest Speakers - "I'd like to hear from...."
    - 1.
  - ii. Program/Session Themes - "I would like to know more about...."
    - 1.
  - iii. Active Learning Sessions - "I need practice in...."
    - 1.
  - iv. Other -

## 24. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

### How are you using the book?

- a. In January people reported:
  - i. Katherine - Book club at Pearson
  - ii. Bror - Way to introduce LE, the multidimensionality of the area, and a "leave behind" to allow folks to dig more deeply on their own time.
- b. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example and maybe the donkey cart
- c. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. **Jim Goodell** and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- d. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each

- iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
- iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
- v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
- vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
- vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- e. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri

## 25. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/mu8mUJEw> ←Try that?
- b. Feedback: More in depth 1-hour webinars on particular topics and speakers. Thoughts?
  - i. Short is good for intro to new work
- c. Plan a Biennial Review of LE... or is it a quarterly newsletter? Anyone else?
  - i. Doodle going out later this week
  - ii. Scheduling a meeting for late January/early Feb. Will send out a Doodle.
  - iii. Looking for people interested in exploring this. Place your name and email below:
    1. Kessler ([kessler@mit.edu](mailto:kessler@mit.edu))
    2. Susan Kahn ([kahn@rose-hulman.edu](mailto:kahn@rose-hulman.edu))
    3. Zarka Ali ([zzali@bu.edu](mailto:zzali@bu.edu))
    4. Arun ([arl122@pitt.edu](mailto:arl122@pitt.edu))
    5. Emily Marasco ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca))
    6. Jodi
    7. Anne Fensie ([anne.fensie@maine.edu](mailto:anne.fensie@maine.edu))
    8. Kristin Torrence ([kristintorrence@gmail.com](mailto:kristintorrence@gmail.com))
    9. Uttarika Shetty ([urs2104@tc.columbia.edu](mailto:urs2104@tc.columbia.edu))
- d. Starting early planning for ICICLE 2024 in January 2023
  - i. Doodle going out later this week
  - ii. Discussing increased industry engagement
  - iii. Collecting thoughts about event engagement

- iv. Looking for people interested in exploring this. Place your name and email below:
  1. Janet
  2. Hamadou

## 26. LE Tools Competitions

Who made it to Phase II?

K-12

1. MatchMaker
2. Vivek - BitPupil Technologies
3. Zarka - Digital Design Solutions
4. Vlad

DARPA

1. Jim Goodell
2. Zarka - Digital Design Solutions
3. Vlad

## 27. SIG Updates

- a. **Competencies Credentialing Curriculum** - Jim Goodell & co-chair (TBD)
  - i. Next Mtg: **10 February 2023 (2nd Friday of every month) at 3pm ET.** <https://ieeesa.webex.com/meet/jgoodell>
  - ii. [jimgoodell@qi-partners.com](mailto:jimgoodell@qi-partners.com)
  - iii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  - iv. Or leave your name and email here:
    1. Albert Hu, [ahu@supertechft.org](mailto:ahu@supertechft.org)  
<https://www.linkedin.com/in/alberthuphd/>
- b. **Design for Learning** - Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu)) & Amy Parent ([aparent@saliencelarning.com](mailto:aparent@saliencelarning.com))
  - i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii. Next meeting: **January 31st.** Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
  - iii. Janet about to send an email about setting up the first meeting of the design patterns subgroup; not sure what, exactly, it will include, but let her/me know if you are interested: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu).

1. Aaron Kessler [kesslera@mit.edu](mailto:kesslera@mit.edu)
2. Lauren Totino
3. Albert Hu [ahu@supertechft.org](mailto:ahu@supertechft.org)  
<https://www.linkedin.com/in/alberthuphd/>
4. Shira Fruchtman - [shira@mit.edu](mailto:shira@mit.edu)
5. Omotayo Olorunfemi [omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com)
6. Uttarika Shetty [urs2104@tc.columbia.edu](mailto:urs2104@tc.columbia.edu)
7. Kristin Torrence [kristintorrence@gmail.com](mailto:kristintorrence@gmail.com)
8. Kayla Morehead [kmorehead25@gmail.com](mailto:kmorehead25@gmail.com)

- c. **Tools & Instrumentation** - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)
- i. Meets the last Thursday of each month: **January 26, 2023**
  - ii. [Meeting notes and agenda](#)
  - iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
    1. Albert Hu, [ahu@supertechft.org](mailto:ahu@supertechft.org) [www.supertechft.org](http://www.supertechft.org)
    2. Kayla Morehead [kmorehead25@gmail.com](mailto:kmorehead25@gmail.com)
- d. **Students & Grads SIG** - Lauren Totino ([ltotino@mit.edu](mailto:ltotino@mit.edu)) & Janet Kolodner ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))
- i. Meets monthly: Next meeting is **February 8, 4-5pm ET**
  - ii. Also includes some aspiring to be learning engineers
  - iii. [Meeting notes and agenda](#)
  - iv. Interested in participating, leave your name and email here:
    1. Kayla Morehead [kmorehead25@gmail.com](mailto:kmorehead25@gmail.com)
  - v. Related to this, BC MA in Learning Engineering Program has a part-time option (still an on-campus program, and many courses are during the day); [bc.edu/learningengineering](http://bc.edu/learningengineering), for more information, get in touch with Janet Kolodner: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu)

## 28. MIG Updates

- a. **Higher Ed MIG** - Emily Marasco, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca) & co-chair (TBD)
- i. Themes: Identification, Visibility, Collaboration
  - ii. December discussion was planning for 2023 and establishing deliverables for the coming year, January meeting was asynchronous engagement, next Zoom meeting in Feb
  - iii. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **February 7th**.
  - iv. Interested in participating, leave your name and email here:
    1. Albert Hu, [ahu@supertechft.org](mailto:ahu@supertechft.org)

2. Kayla Morehead kmorehead25@gmail.com

- b. **Corporate MIG** - Jessie Chuang and Brandt Dargue
  - i. Looking for a new chair! Great opportunity.
    - 1. Jessie, lets talk... John Costa jbcosta@repubit.com
  - ii. Generally meets the last Friday of the month at 10amCT - **27 January**
  - iii. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iv. [Shared folder](#)  
[Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - v. Interested in participating, leave your name and email here:
    - 1.
  
- c. **pK-12 MIG** - Michael Jay & co-chair (TBD)
  - i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii. Next meeting in on **8 February**
  - iii. **Agenda and notes:**  
[ICICLE pK-12 Market Interest Group \(MIG\) Agenda and Notes](#)
  - iv. We'll start evaluating ideas generated as to the work we want to focus on moving ahead.
  - v. Interested in participating, leave your name and email here:
    - 1. Uttarika Shetty [urs2104@tc.columbia.edu](mailto:urs2104@tc.columbia.edu)
    - 2. Kayla Morehead kmorehead25@gmail.com

## 29. Events ICICLE participants are looking forward to in 2023

- a. January 23 - 26, FETC, New Orleans, LA (<https://www.fetc.org/>)
- b. ATD TechKnowledge, Feb 7-9, New Orleans, LA
- c. Feb 13-15, 2023, DLAC in Austin, TX (Digital Learning Annual Conference)
- d. March 6-9, SxSWEdu in Austin, TX (<https://www.sxswedu.com/>)
- e. March 13-17, 2023 LAK23
- f. April 12-14 Learning Solutions
- g. April 17-19 ASU/GSViTicSE/SIGCSE
- h. April 18-21, OLC Innovate
- i. May 21 - 24, 2023 ATD International Conference and Expo
- j. June 13-17, ISLS 2023, Montreal and online
- k. June 25-28 ASEE
- l. June 26, 2023, CDIO and CEEA (<http://www.cdio.org/>)
- m. AIED'23, Tokyo, July 3-7, <https://www.aied2023.org>
- n. 20-22 July, [Learning@Scale](#), University of Copenhagen, Denmark
- o. July 11-14, [Educational Data Mining](#), EDM'23, Bengaluru, India,
- p. **24-26 July, ICICLE 2023, CMU in Pittsburgh, USA**



- q. October 16-22, [AECT](#) in Orlando, FL
- r. November 5-8 2023, Quality Matters Connect Conference in Bloomington, Minnesota (<https://www.qualitymatters.org/>)

Any others?

### 30. Final Mtg Items:

- a. Announcements from participants
  - i. Very cool pre-print result on learning rates from students in well-designed learning environment from Ken Koedinger and CMU team: <https://psyarxiv.com/pxsfh>. Essentially, in a well-designed learning environment the rate of learning per opportunity-to-learn is constant across students. Only their starting point varies. Many interesting implications, including about how to make sure students are motivated to take enough opportunities to learn, and have the time to take those opportunities to learn - in a well-designed learning environment, they will indeed advance!
- b. The next ICICLE Community Call is on **Wednesday 15 February 2023** at 9amPT/NoonET.

### 31. Today's Speaker...

**Katherine McEldoon, Ph.D., Lead Learning Scientist at Pearson**  
[Scaling the Science of Learning: Learning Design Principles](#)

Katherine is a research-to-practice connector and brings evidence-based insights to Pearson's world learners. Her focus is on scaling up insights from the cognitive and learning sciences and championing evidence-based practice.

Katherine will speak on "Pearson's Learning Design Principles: Scaling the science of learning at a global edtech company." We all know quality learning experiences are built on a solid foundation of learning science yet how can we make this happen consistently and at scale? The Pearson's Learning Design Principles offer a point of entry into a rigorous research base, with actionable takeaways for all stages of the learning engineering process.

## ICICLE Community Call : 14 December 2022, Noon EST

**Attending:** Muffie Waterman, Erin Czerwinski, Aaron Kessler, Michael Jay, Mike Preble, Dina Kurzweil, Jim Goddell, Anne Fensie, Aaron Kessler, Janet Kolodner, Shira Fruchtman, Tim

Cathcart, Andrew McCallister, Emily Marasco, Bill Crose, Arun, Gerri Light, Joshua Callman, Lauren Totino, Oliver Pincus, Zarka Ali, Erin Jenkins, Toni Stub, Elisabeth Huber, Avron Barr, Chris Blakesley, Muffie Wiebe, Leonora Zefi, Zachary Goldman

## **Review of the Agenda** and any additions (MJay) (1 min)

Also, what events are you looking forward to in 2023? (at the end of the meeting)

- 1. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a. Elisabeth Huber, [elisabethannhuber@gmail.com](mailto:elisabethannhuber@gmail.com)
  - b. Toni Shub, [toni@qoreinsights.com](mailto:toni@qoreinsights.com), CEO QoreInsights
  - c. Bill Crose, [bcrose1@adytonusa.com](mailto:bcrose1@adytonusa.com)
  - d. Erin Jenkins, [erjenkinsdesign@gmail.com](mailto:erjenkinsdesign@gmail.com)
  - e. Zach Goldman, [zpgoldman@gmail.com](mailto:zpgoldman@gmail.com) recent doctoral graduate at GWU
  - f. Albert Hu, [ahu@supertechft.org](http://ahu@supertechft.org), President Supertech FT, [www.supertechft.org](http://www.supertechft.org)
  
- 2. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout**
  - a. Save the date! July 24-26
  - b. Other updates.
  - c. Next Conference Committee Meeting is on **Monday, December 19** at 1pm ET
  - d. Feel free to add ideas to any of the documents linked from the [Agenda/Notes](#)
  - e. Sign up to be on the committee (whether you can attend the first meeting or not): Name and email address. Erin will add you to calendar invites for subsequent meetings.
    - i. Dina Kurzweil
  - f. For everyone....please take a few minutes and fill in responses to these prompts:
    - i. Guest Speakers - "I'd like to hear from...."
      - 1.
    - ii. Program/Session Themes - "I would like to know more about...."
      1. Learning Engineering Teams Approaches
    - iii. Active Learning Sessions - "I need practice in...."
      1. Data driven decision making
    - iv. I'm interested in hearing from a climate change leader -don't know who yet. But think the learning/training/performance industry is supposed to be the "change agent" but haven't seen any action. We should get some ideas on what strategies and tactics we can develop/implement to model what others can do. Start a wave toward net zero in our industry first.

## **3. The Learning Engineering Toolkit In Action**

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

How are you using the book?

- a. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri
- b. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- c. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim Goodell and Dina Kurzweil AECT conference
  - iii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iv. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve
- d. In December people reported:
  - i. Tim Cathcart - practicum use and recommend for DOD as part of instructional design
  - ii. Arun - I am using the Chapter 12 (and 14 & 18).
  - iii. Janet - Victor Lee article - Writing a reply and will use the penicillin example.

#### 4. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/yPGytrPZ>
- b. Plan a Biennial Review of LE... or is it a quarterly newsletter?
  - i. Scheduling a meeting for late January/early Feb. Will send out a Doodle.
  - ii. Looking for people interested in exploring this. Place your name and email below:
    1. Kessler ([kessler@mit.edu](mailto:kessler@mit.edu))
    2. Susan Kahn ([kahn@rose-hulman.edu](mailto:kahn@rose-hulman.edu))

3. Zarka Ali [zzali@bu.edu](mailto:zzali@bu.edu)
4. Arun [arl122@pitt.edu](mailto:arl122@pitt.edu)
5. Emily Marasco [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
6. Jodi
7. Anne Fensie ([anne.fensie@maine.edu](mailto:anne.fensie@maine.edu))

- c. Starting early planning for ICICLE 2024 in January 2023
  - i. Discussing increased industry engagement
  - ii. Collecting thoughts about event engagement
  - iii. Looking for people interested in exploring this. Place your name and email below:
    1. Janet (but will not be in charge!!)
    - 2.

- d. Other conference requests
  - i. Request from Steve Ritter: [EDM 2023](#) conference, which will be in Bengaluru in July. Looking to coordinate with IEEE ICICLE to have the conference presented “in cooperation with”.
  - ii. [ICALT 2023](#) (IEEE International Conference on Advanced Learning Technology) from Maiga Chang (Chair, IEEE Technical Community on Learning Technology).
    1. Great call with Phillip Benachour (Lancaster University (UK)), TCLT Vice Chair on Webinar & Collaboration
    2. One session coordinated with 3 or so existing TCLT members to discuss how LE is incorporated into their existing work
    3. Being held in Orem, UT in Early July 2023

## 5. DARPA AI Tools for Adult Learning Competition - DUE SUNDAY 18 December!

- a. “DARPA’s AI Tools for Adult Learning aims to spur the development of generalizable AI tools to enhance adult learning of complex subjects necessary for the current and future national security workforce. Successful tools will create customized learning experiences that enhance learning and skills development among adults.”

<https://toolscompetition.org/darpa/>

## 6. SIG Updates

- a. **Competencies Credentialing Curriculum** - Jim Goodell & co-chair (TBD)
  - i. Next Mtg: **13 January 2023 (2nd Friday of every month) at 3pm ET.** <https://ieeesa.webex.com/meet/jgoodell>
  - ii. [jimgoodell@qi-partners.com](mailto:jimgoodell@qi-partners.com)
  - iii. Interested in participating, sign up for the list:  
[ICICLE-CCC@LISTSERV.IEEE.ORG](mailto:ICICLE-CCC@LISTSERV.IEEE.ORG)  
 Subscribe:  
<https://listserv.ieee.org/cgi-bin/wa?SUBED1=ICICLE-CCC>
  - iv. Or leave your name and email here:

1. [timcathcart@outlook.com](mailto:timcathcart@outlook.com) (has experience with Cognitive Task Analysis)
  2. Janet: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu) (it didn't let me sign up)(I'll add you - JG)
  3. Erin Jenkins [erjenkinsdesign@gmail.com](mailto:erjenkinsdesign@gmail.com) (it didn't let me sign up either)
- b. **Design for Learning - Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu)) & co-chair (TBD)
- i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSl6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii. Next meeting: **December 20th**. Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    1. Arun, University of Pittsburgh, [arl122@pitt.edu](mailto:arl122@pitt.edu)
    2. Toni Shub [toni@qoreinsights.com](mailto:toni@qoreinsights.com)
- c. **Tools & Instrumentation - Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)) & co-chair (TBD)
- i. Meets the last Thursday of each month: **January 26, 2023** (November and December meetings canceled)
  - ii. [Meeting notes and agenda](#)
  - iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
    1. Toni Shub [toni@qoreinsights.com](mailto:toni@qoreinsights.com)
- d. **students & Grads SIG - Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu)) & Janet Kolodner ([kolodnej@bc.edu](mailto:kolodnej@bc.edu))
- i. Meets monthly: Next meeting is **January 11, 4-5pm ET**
  - ii. Also includes some aspiring to be students
  - iii. [Meeting notes and agenda](#)
  - iv. Interested in participating, leave your name and email here:
  - v. Related to this, BC MA in Learning Engineering Program has a part-time option (still an on-campus program, and many courses are during the day); [bc.edu/learningengineering](http://bc.edu/learningengineering), for more information, get in touch with Janet Kolodner: [janet.kolodner@bc.edu](mailto:janet.kolodner@bc.edu)

## 7. MIG Updates

- a. **Higher Ed MIG** - Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca) & co-chair (TBD)
  - i. Themes: Identification, Visibility, Collaboration
  - ii. December discussion was planning for 2023 and establishing deliverables for the coming year, January will be asynchronous engagement, next Zoom meeting in Feb
  - iii. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **February 7th**.
  - iv. Interested in participating, leave your name and email here:
    - 1. Erin Jenkins, [ejenkinsdesign@gmail.com](mailto:ejenkinsdesign@gmail.com)
    - 2.
  
- b. **Corporate MIG** - Jessie Chuang and Brandt Dargue
  - i. Generally meets the last Friday of the month at 10amCT - **27 January**
  - ii. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii. [Shared folder](#)
    - 1. [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - iv. Interested in participating, leave your name and email here:
    - 1. Mike Preble [mike@mikepreble.com](mailto:mike@mikepreble.com)
    - 2. Erin Jenkins, [ejenkinsdesign@gmail.com](mailto:ejenkinsdesign@gmail.com)
  
- c. **pK-12 MIG** - Michael Jay & co-chair (TBD)
  - i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii. Next meeting in on **11 January** (December canceled due to conflict with the December Community Call)
  - iii. We'll continue defining the scope of our work based on the work of ICICLE and those who participate.
  - iv. Interested in participating, leave your name and email here:
    - 1. Toni M Shub, EdD, CEO and Founder, QoreInsights, [toni@qoreinsights.com](mailto:toni@qoreinsights.com)
    - 2.
    - 3.

## 8. What events are you looking forward to in 2023?

- a. ICICLE 2023, 24-26 July at CMU in Pittsburgh
- b. April 12-14 Learning Solutions
- c. May 21 - 24, 2023 ATD International Conference and Expo
- d. March 13-17, 2023 LAK23
- e. April 17-19 ASU/GSV
- f. EDM/AIED
- g. iTICSE/SIGCSE

- h. ISLS 2023 late June, I think, in Montreal and online
- i. Learning@Scale
- j. FETC
- k. April 18-21, OLC Innovate
- l. October 17-21 AECT
- m. June 25-28 ASEE
- n. CDIO and CEEA, June 2023
- o.

#### 9. Final Mtg Items:

- a. Announcements from participants
  - i.
  
- b. The next ICICLE Community Call is on **Wednesday 18 January 2022** at 9amPT/NoonET.

#### 10. Today's Speaker...

Jim Goodell, Director of Innovation  
Quality Information Partners, Inc. (QIP)

Overview of his and Sae's presentation at I/ITSEC 2022

Practical Guide to LE Presentation PDF:

<https://drive.google.com/file/d/1R25C76knwXo99iIV6B8vgw7pUldVo7MQ/view>

## ICICLE Community Call : 16 November 2022, Noon EST

**Attending:** Michael Jay, Lauren Totino, Aaron Kessler, Erin Czerwinski, Amy Parent, Emily Marasco, Shira Fruchtman, John Murray, Josh Callman, Chris Blakesley, Gerri Light, Neil Thawani, Arun, Matt Owens, John Englander, Andrew McCallister, Zarka Ali, Avron Barr, Abby Bergman, Oliver Pincus, Kevin Owens, Tracy Arner, Jodi Lis, Vlad Goodovsky, Jim Goodell, Lauren Kordonowy,

**Review of the Agenda** and any additions (MJay) (1 min)

**11. New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a. Tracy Arner: [tarn@asu.edu](mailto:tarn@asu.edu)
- b. Matt Owens: [mo@acceleratorecosystem.org](mailto:mo@acceleratorecosystem.org)
- c. John Englander: [jo@acceleratorecosystem.org](mailto:jo@acceleratorecosystem.org)

## 12. 2023 Conference - Erin Czerwinski and Rachel Van Campenhout

- a. Save the date! July 24-26
- b. Other updates.
- c. First Conference Committee Meeting was on **Monday, November 7** at noon ET
- d. Sign up to be on the committee (whether you can attend the first meeting or not):  
Name and email address. Erin will add you to calendar invites for subsequent meetings.
  - i. Michael Jay, [michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net)
  - ii. Lisa Jones: [lisa.jones@asbury.edu](mailto:lisa.jones@asbury.edu)
  - iii. Jim Paradiso, [james.paradiso@ucf.edu](mailto:james.paradiso@ucf.edu)
  - iv. Zarka Ali [zzali@bu.edu](mailto:zzali@bu.edu)
  - v. Arun [arl122@pitt.edu](mailto:arl122@pitt.edu)

## 13. The Learning Engineering Toolkit In Action

Please post reviews on Amazon, social media, etc. to help get the word out.

#LearningEngineeringToolkit

### How are you using the book?

- a. In September people reported:
  - i. Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii. Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii. Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri
- b. In October people reported:
  - i. Janet - Intro to LE course
  - ii. Emily - assigned readings to research students, copy for each
  - iii. Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection
  - iv. Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v. Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi. Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii. Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- c. In November people reported:
  - i. Jim Goodell - Learning 2022 conference - Intro to LE based on the toolkit.
  - ii. Jim and Sae will be presenting a 90 minute session at ITSIC
  - iii. Amy Parent - Pilot on real world evidence UX and feedback form on how to improve



iv.

#### 14. ICICLE Business

- a. Join and promote Discord community <https://discord.gg/yPGytrPZ>
- b. Hitting the ground running after the conference
  - i. Jim Paradiso, ICICLE Outreach Chair, will be in touch with SIG and MIG leads to schedule planning
  - ii. SIG and MIG initiated communications for those outside ICICLE
- c. Plan a Biennial Review of LE... or is it a quarterly newsletter? Looking for people interested in exploring this. Place your name and email below:
  - i. Kessler ([kessler@mit.edu](mailto:kessler@mit.edu))
  - ii. Susan Kahn ([kahn@rose-hulman.edu](mailto:kahn@rose-hulman.edu))
  - iii. Zarka Ali ([zzali@bu.edu](mailto:zzali@bu.edu))
  - iv. Arun ([arl122@pitt.edu](mailto:arl122@pitt.edu))
  - v. Emily Marasco ([eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca))
  - vi.
- d. Other conference requests
  - i. Request from Steve Ritter: [EDM 2023](#) conference, which will be in Bengaluru in July. Looking to coordinate with IEEE ICICLE to have the conference presented “in cooperation with”.
  - ii. [ICALT 2023](#) (IEEE International Conference on Advanced Learning Technology) from Maiga Chang (Chair, IEEE Technical Community on Learning Technology). Requested a potential LE Track, we have offered an LE Panel Session in collaboration TCLT leaders and a Keynote on LE.

1.

#### 15. DARPA AI Tools for Adult Learning Competition

- a. “DARPA’s AI Tools for Adult Learning aims to spur the development of generalizable AI tools to enhance adult learning of complex subjects necessary for the current and future national security workforce. Successful tools will create customized learning experiences that enhance learning and skills development among adults.”  
<https://toolscompetition.org/darpa/>
- b. Officially announced on Thursday 10 November. 1-2 page concept paper due on 18 December.
- c. Another Info Session on 14 December.

#### 16. SIG Updates

- a. **Competencies Credentialing Curriculum** - Jim Goodell
  - i. Next Mtg: **9 December (2nd Friday of every month) at 3pm ET.**  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii. [jimgoodell@qi-partners.com](mailto:jimgoodell@qi-partners.com)

- iii. Interested in participating, leave your name and email here:
  - 1. Arun arl122@pitt.edu
  - 2.
  
- b. **Design for Learning - Aaron Kessler** ([kesslera@mit.edu](mailto:kesslera@mit.edu))
  - i. We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii. Next meeting: **Nov 29th**. (Last meeting of the year Dec 20th) Meetings are the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    - 1. Arun arl122@pitt.edu
  
- c. **Tools & Instrumentation - Erin Czerwinski** ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
  - i. Meets the last Thursday of each month: **January 26, 2023** (November and December meetings canceled)
  - ii. [Meeting notes and agenda](#)
  - iii. Interested in participating, leave your name and email address here (and/or join the next meeting):
    - 1. Arun arl122@pitt.edu
  
- d. **students & Grads SIG - Lauren Totino** ([ltotino@mit.edu](mailto:ltotino@mit.edu))
  - i. Meets monthly: Next meeting is **November 16th, 4-5pm ET**
  - ii. [Meeting notes and agenda](#)
  - iii. Interested in participating, leave your name and email here:
    - 1.

## 17. MIG Updates

- a. **Higher Ed MIG - Emily Marasco**, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca)
  - i. Themes: Identification, Visibility, Collaboration
  - ii. November discussion was on digital literacy gaps and impact on LE, December will be planning for 2023 goals, outreach and topics
  - iii. Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **December 6th**.
  - iv. Interested in participating, leave your name and email here:
    - 1. Arun arl122@pitt.edu
    - 2. Gerri Light geraldine.light@purdueglobal.edu
  
- b. **Corporate MIG - Jessie Chuang and Brandt Dargue**
  - i. Generally meets the last Friday of the month at 10amCT - **2 December**

- ii. If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii. [Shared folder](#)
    - 1. [Corporate L&D leaders Interviews & Highlights of interviews](#)
  - iv. Interested in participating, leave your name and email here:
    - 1.
- c. **pK-12 MIG** - Michael Jay & TBD
- i. Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii. Next meeting in on **11 January** (December canceled due to conflict with the December Community Call)
  - iii. We'll continue defining the scope of our work based on the work of ICICLE and those who participate.
  - iv. Interested in participating, leave your name and email here:
    - 1. Gerri Light [geraldine.light@purdueglobal.edu](mailto:geraldine.light@purdueglobal.edu)
    - 2.

#### 18. Final Mtg Items:

- a. Announcements from participants
  - i.
  
- b. The next ICICLE Community Call is on **Wednesday 14 December 2022** at 9amPT/NoonET.

#### 19. Today's Speaker...

[Lauren Kordonowy](#), Science of Learning Project Coordinator, [Center for Excellence and Innovation in Teaching and Learning](#), University of New Hampshire

Lauren will speak on the implementation of the University's [student Cognition Toolbox](#). The Toolbox is a short course companion (meaning it can be used in conjunction with other courses) introducing and providing direct practice in study strategies that are informed by learning science research. Material from domain-specific courses, like psychology, statistics, or chemistry (for example) is used to illustrate the application of the study strategies.

Lauren will also highlight how learning data has been collected and used for iterative improvement efforts as the course has been delivered through the [Open Learning Initiative](#) (OLI) platform.

# ICICLE Community Call : 19 October 2022, Noon EDT

**Attending:** Emily Marasco, Leonora Zefi, Lauren Totino, Oliver Pincus, Karen Rege, Lisa Jones, Aaron Kessler, Amy Parent, Jeff Dieffenbach, Jess Resig, Stephen Fancsali, Gerri Light, Kristin Torrence, Janet Kolodner, Joshua Callman, Jodi Lis, Avron Barr, Susan Kahn, Shira Fruchtman, Andrew McCallister, Christopher Blakesley, Emily Marasco, Brittany Robinson, Jim Paradiso, Joshua Callman, Jimm, Kristyn Manoukian, Lynn Wietecha, Mollie McCormick, Timothy Cathcart, Ying Jui Tseng, Zarka Ali, Jim Goodell, Christopher Blakesley

**Review of the Agenda** and any additions (MJay) (1 min)

- 1) **New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro
  - a) Susan Kahn, [kahn@rose-hulman.edu](mailto:kahn@rose-hulman.edu), Rose-Hulman Institute of Technology
  - b) Stephen Fancsali, [sfancsali@carnegielearning.com](mailto:sfancsali@carnegielearning.com), Carnegie Learning, Inc.
  
- 2) **2023 Conference - Erin Czerwinski and Rachel Van Campenhout**
  - a) First Conference Committee Meeting scheduled for **Monday, November 7** at noon ET – Mark your calendars and use: <https://cmu.zoom.us/my/opensimon> to join the meeting.
  - b) Sign up to be on the committee (whether you can attend the first meeting or not): Name and email address. Erin will add you to calendar invites for subsequent meetings.
    - i) Michael Jay, [michael@matchmakeredlabs.net](mailto:michael@matchmakeredlabs.net)
    - ii) Lisa Jones: [lisa.jones@asbury.edu](mailto:lisa.jones@asbury.edu)
    - iii) Jim Paradiso, [james.paradiso@ucf.edu](mailto:james.paradiso@ucf.edu)
    - iv) Zarka Ali [zzali@bu.edu](mailto:zzali@bu.edu)
  
- 3) **The Learning Engineering Toolkit In Action**
  - a) How are **you** using the book?
  - b) In September people reported:
    - i) Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
    - ii) Anne - using ideas from the Learning Sciences chapter with EDU students
    - iii) Aaron - running a book club at MIT Open Learning with the Toolkit - MIT Open Learning is using our fall Journal Club slots to read the book ... foreword/intro was 2 weeks ago, chapters 1 and 2 this coming Fri
  - c) In October people reported:
    - i) Janet - Intro to LE course
    - ii) Emily - assigned readings to research students, copy for each
    - iii) Lisa Jones - using it as the primary text for graduate class IDG 675 Learning Engineering and Leading Innovation @ Asbury U + the library bought 4 copies for e-book collection

- iv) Jess Resig - We have members of our instructional design unit at Penn State World Campus starting to use this as we shift and grow into LE. Upskill to a more LE based process.
  - v) Timothy Cathcart - I am reviewing it for Instructional Design for systems engineering certificate program (at URI)
  - vi) Amy - I've been using it as a means to continue to refine my practice. Taking notes and continuing to grow
  - vii) Mollie – pulling some key elements out for discussions with team and stakeholders around learning transfer and front end analysis.
- d) Please also post reviews on Amazon, social media, etc. to help get the word out. #LearningEngineeringToolkit

#### 4) ICICLE Business

- a) Join and promote Discord community <https://discord.gg/yPGytrPZ>
- b) Hitting the ground running after the conference
  - i) Jim Paradiso, ICICLE Outreach Chair, will be in touch with SIG and MIG leads to schedule planning
  - ii) SIG and MIG initiated communications for those outside ICICLE
- c) Plan a Biennial Review of LE... or is it a quarterly newsletter? Looking for people interested in exploring this. Place your name and email below:
  - i) Aaron Kessler ([kessler@mit.edu](mailto:kessler@mit.edu))
  - ii) Susan Kahn ([kahn@rose-hulman.edu](mailto:kahn@rose-hulman.edu))
  - iii) Zarka Ali [zzali@bu.edu](mailto:zzali@bu.edu)
  - iv)

#### 5) Schmidt Futures 2022 Learning Engineering Tools Competition

- a) Kristyn Manoukian, Program Director, The Learning Agency
- b) Officially announced on Thursday 22 September. Due 20 November
- c) Info Session on 20 October
- d) Register for a feedback call: <https://tlaforms.typeform.com/to/qLLEyyzr>
- e) Register here:
 

[https://www.eventbrite.com/e/info-session-2022-learning-engineering-tools-competition-tickets-411380328637?keep\\_tld=1](https://www.eventbrite.com/e/info-session-2022-learning-engineering-tools-competition-tickets-411380328637?keep_tld=1)

#### 6) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) Next Mtg: **11 November (2nd Friday of every month) at 3pm ET.**  
<https://ieesa.webex.com/meet/jgoodell>
  - ii) [jimgoodell@qi-partners.com](mailto:jimgoodell@qi-partners.com)
  - iii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Design for Learning - Aaron Kessler ([kessler@mit.edu](mailto:kessler@mit.edu))

- i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii) Next meeting: **Nov 1**. Meetings are normally the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    - (1) Karen Rege ([krege@ccp.edu](mailto:krege@ccp.edu)) but I can't make the 27th.
- c) Instrumentation & so much more! - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
- i) Meets the last Thursday of each month: Next meeting is **November 24th, 2-3 ET (October Meeting is canceled)**
  - ii) [Meeting notes and agenda](#)
  - iii) Interested in participating, leave your name and email address here (and/or join the next meeting):
- d) students & Grads SIG - Lauren Totino ([ltotino@mit.edu](mailto:ltotino@mit.edu))
- i) Meets monthly: Next meeting is **November 16th, 4-5pm ET**
  - ii) [Meeting notes and agenda](#)
  - iii) Interested in participating, leave your name and email here:
    - (1)

## 7) MIG Updates

- a) Higher Ed MIG -
- i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
  - ii) Themes: Identification, Visibility, Collaboration
  - iii) October topic was a presentation from Jodi on international learning engineering initiatives, November discussion will be on digital literacy gaps and impact on LE
  - iv) Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **November 1st**.
  - v) Interested in participating, leave your name and email here:
    - (1) Zarka Ali [zzali@bu.edu](mailto:zzali@bu.edu)
    - (2)
    - (3)
- b) Corporate MIG : Jessie Chuang and Brandt Dargue
- i) Meets last Friday of the month at 10amCT - **28 October**
  - ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii) [Shared folder](#)
    - (1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)

iv) Interested in participating, leave your name and email here:  
(1)

c) pK-12 MIG: Michael Jay & TBD

i) Meets the 2nd Wednesday of the month at 9amPT/NoonET

ii) Next meeting in on **9 November 2022**

iii) We'll continue defining the scope of our work based on the work of ICICLE and those who participate.

iv) Interested in participating, leave your name and email here:

(1) Zarka Ali - [zzali@bu.edu](mailto:zzali@bu.edu)

(2)

(3)

## 8) Final Mtg Items:

a) Announcements from participants

i) ISLS (June 2023) call for papers, including practice-oriented papers:

<https://2023.isls.org/call-for-papers/> - due Nov 4

ii) Call for proposal also open for 2023 Learning at Scale (\*\*L@S\*\*) 2023, July 20-22, 2023 in Copenhagen, Denmark

b) The next ICICLE Community Call is on **Wednesday 16 November 2022** at 9amPT/NoonET.

## 9) Today's Speaker...

[Kristin Torrence](#), Head of Learning Engineering at [Talespin](#)

Talespin is an immersive reality company where Kristin focuses on designing experiential virtual reality solutions. Her background is in cognitive science, game-based learning, and instructional design, and she is particularly interested in the intersection of learning science, XR, and learning analytics. She co-founded XR in LXD, a meetup, and community of practice for IDs/LXDs interested in designing XR solutions. She'll share her experiences applying learning engineering to VR and about designing and evaluating in VR.

## ICICLE Community Call : 21 September 2022, Noon EDT

**Attending:** Joey Losier, Lauren Totino, Aaron Kessler, Karen Rege, Anne Fensie; Oliver Pincus, Maureen Glynn, Neil Thawani, Arun Lekshmi Narayanan, Andrew McCallister, Jim Paradiso, Emily Marasco, Erin Czerwinski, Christopher Blakesley, Jodi Lis, Andre Coy, Avron Barr, Rachel Van Campenhout

## **Review of the Agenda** and any additions (MJay) (1 min)

**10) New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a) Arun, [ar1122@pitt.edu](mailto:ar1122@pitt.edu), UPitt, work on adaptive education tech

## **11) Conferences - Aaron Kessler and Jim Goodell**

- a) Sharing high points
- b) Complete the ICICLE Conference Questionnaire
  - i) <https://forms.gle/Q7NdWRSMxzdmHHKr9>
- c) Changing of the Guard - New Conference Committee Lead
  - i) Share initial plans

## **12) Status of the Learning Engineering Toolkit - Jim Goodell**

- a) The book is in the wild!
- b) How are people using the book?
  - i) Karen - implementing it with staff - following LE process (personas, data) for post-pandemic PD
  - ii) Anne - using ideas from the Learning Sciences chapter with EDU students
  - iii) Aaron - running a book club at MIT Open Learning with the Toolkit

## **13) ICICLE Business**

- a) Join and promote Discord community <https://discord.gg/yPGytrPZ>
- b) Hitting the ground running after the conference
  - i) Jim Paradiso, ICICLE Outreach Chair, will be in touch with SIG and MIG leads to schedule planning
  - ii) SIG and MIG initiated webinars for various audiences
- c) Status of new SIGs and MIGs
  - i) pK-12 MIG (MJay) - 12 October at 9amPT
    - (1) Neil Thawani ([neilthawani@gmail.com](mailto:neilthawani@gmail.com))
  - ii) Learning Engineering students & Grads SIG (Lauren and Janet) - 1st meeting on Wed. October 12th at 4:00pm ET.
- d) Plan a Biennial Review of LE... or is it a quarterly newsletter? Looking for people interested in exploring this.

## **14) Schmidt Futures 2022 Learning Engineering Tools Competition**

- a) Official announcement on Thursday 22 September at 12:30pET
- b) Register here: [Launch Event 2022 | Learning Engineering Tools Competition Tickets, Thu, Sep 22, 2022 at 12:30 PM | Eventbrite](#)
- c) The Learning Agency will present on this in our October mtg.

## **15) SIG Updates**

- a) Competencies Credentialing Curriculum - Jim Goodell



- i) Next Mtg: **14 October (2nd Friday of every month) at 3pm ET.**  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Design for Learning - Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu))
- i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii) Next meeting: **Sep 27th**. Meetings are normally the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    - (1) Karen Rege ([krege@ccp.edu](mailto:krege@ccp.edu)) but I can't make the 27th.
- c) Instrumentation & so much more! - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
- i) Meets the last Thursday of each month: Next meeting is **September 29th, 2-3 ET**
  - ii) [Meeting notes and agenda](#)
  - iii) Interested in participating, leave your name and email address here (and/or join the next meeting):
    - (1)

## 16)MIG Updates

- a) Higher Ed MIG -
- i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
  - ii) Themes: Identification, Visibility, Collaboration
  - iii) June's discussion topic was sharing ongoing research and preparing our introductory statement for the conference, September was moved to an online Discord discussion
  - iv) Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **October 4th**.
  - v) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Corporate MIG : Jessie Chuang and Brandt Dargue
- i) Meets last Friday of the month at 10amCT - 26 August(?)
  - ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii) [Shared folder](#)

- (1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - iv) Interested in participating, leave your name and email here:
    - (1)
- c) pK-12 MIG: Michael Jay & TBD
  - i) Meets the 2nd Wednesday of the month at 9amPT/NoonET
  - ii) First meeting in on **12 October 2022**
  - iii) We'll be defining the scope of our work based on the work of ICICLE and those who participate.
  - iv) Interested in participating, leave your name and email here:
    - (1) **Neil Thawani** ([neilthawani@gmail.com](mailto:neilthawani@gmail.com))
    - (2) **Sandy Damashek** ([curlysandy@gmail.com](mailto:curlysandy@gmail.com))-- new to **ICICLE**
    - (3)

#### 17)Final Mtg Items:

- a) Announcements from participants
  - i) Check out the latest episode of the AECT podcast Learner Engagement Activated with special guest Jim Goodell!  
<https://learnerengagement.podbean.com/>
- b) The next ICICLE Community Call is on **Wednesday 19 October 2022** at 9amPT/NoonET. We recognize that some people may be at DevLearn & AECT.
- c) ISLS (June 2023) call for papers, including practice-oriented papers:  
<https://2023.isls.org/call-for-papers/> - due Nov 4

#### 18)Today's Speaker...

Dr. André Coy

André Coy is an associate professor in the Department of Physics at the University of the West Indies, Mona. His interests include speech and language technologies and their application to education, computer assisted language learning and assistive technologies. Dr. Coy has previously worked at McGill University, the University of Sheffield and Barnsley NHS Foundation Trust. Dr. Coy's current work includes the development of a culturally responsive, intelligent, automated literacy tutor for use in primary schools.



**UWI**

## **Bright Start**

A tool for bridging reading instruction gaps through the use of a speech technology-enabled autonomous reading tutor

### **Catalyst Prize**

- **University of the West Indies (UWI), Mona & St. Augustine**
- **CARiLIT**
- **Jamaica, Trinidad and Tobago**

Bright Start is a fully functional automated reading tutor that will enable vulnerable young children to access personalized and culturally-relevant reading instruction across the Caribbean. The solution aims to increase the number of young children that are reading before the age of 10. The tutor will supplement current reading instruction and provide targeted attention and feedback to children who are underserved due to large class sizes and difficult socioeconomic circumstances.

### **Team Leads**

#### **Andre Coy**

*Professor, University of the West Indies*

Dr. Andre Coy has expertise in Speech and Language Technologies (SLT) with a focus on applications of SLT for education.

#### **Phaedra Mohammed**

*Professor, University of the West Indies*

Dr. Phaedra S. Mohammed has expertise in Intelligent Learning Systems (ILS). Her current focus is cultural modelling in ILS.

# ICICLE Community Call : 20 July 2022, Noon EDT

**Attending:** Michael Jay, Aaron Kessler, Lauren Totino, Leonora Zefi, Jim Paradiso, Muffie Waterman, Avron Barr, Oliver Pincus, Gerri Light, Kristin Torrence, Steve Ritter, Omotayo Olorunfemi, Karen Rege, Janet Kolodner, Christopher Blakesley, Brandt Redd, Dina Kurzweil, Gratiela Zaharia.

**Review of the Agenda** and any additions (MJay) (1 min)

**19) New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a) Steve Ritter - [sritter@carnegielearning.com](mailto:sritter@carnegielearning.com), Carnegie Learning
- b) Omotayo Olorunfemi - [omotayo.o.olorunfemi@gmail.com](mailto:omotayo.o.olorunfemi@gmail.com) Data Science Nigeria

**20) Update on the status of the Learning Engineering Toolkit - Jim Goodell**

- a) The book is ready!

**21) Conferences - Aaron Kessler and Jim Goodell**

- a) IT'S ALMOST HERE!
- b) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT

**22) ICICLE Business**

- a) Join and promote Discord community <https://discord.com/invite/NeWwV8ke>
- b) We want to hit the ground running after the conference
  - i) Launch into other communities
  - ii) SIG and MIG initiated webinars for various audiences
  - iii) Jim Paradiso, ICICLE Outreach Chair, will be in touch with SIG and MIG leads to schedule planning
- c) Start a K-12 MIG
- d) Start a Learning Engineering Grad student SIG
  - i) Lauren and Janet
- e) Plan a Biennial Review of LE... or is it a quarterly newsletter?

**23) SIG Updates**

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) Next Mtg: 9 September(?) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Meetings on hold until after the conference
  - iii) Interested in participating, leave your name and email here:
    - (1)
    - (2)

- b) Design for Learning - Aaron Kessler ([kesslera@mit.edu](mailto:kesslera@mit.edu))
  - i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii) Next meeting: Sep 27th. Meetings are normally the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    - (1)
  
- c) Instrumentation & so much more! - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
  - i) Meets the last Thursday of each month: Next meeting is August 25th(?), 2-3 ET
  - ii) [Meeting notes and agenda](#)
  - iii) Interested in participating, leave your name and email address here (and/or join the next meeting):
    - (1)

## 24)MIG Updates

- a) Higher Ed MIG -
  - i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
  - ii) Themes: Identification, Visibility, Collaboration
  - iii) June's discussion topic was sharing ongoing research and preparing our introductory statement for the conference
  - iv) September's guest speaker will be Jodi Lis on global learning engineering initiatives
  - v) Taking a break for July and August
  - vi) Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **September 6th**.
  - vii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
  
- b) Corporate MIG : Jessie Chuang and Brandt Dargue
  - i) Meets last Friday of the month at 10amCT - 26 August(?)
  - ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii) [Shared folder](#)
    - (1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)
  - iv) Interested in participating, leave your name and email here:
    - (1)

## 25) Final Mtg Items:

- a) Announcements from participants
  - i) Good press for the book -  
<https://medium.com/open-learning/summer-2022-recommended-reading-from-mit-2967dad6fbf0> and  
<https://news.mit.edu/2022/books-mit-authors-0708>
  - ii) eLmL [paper](#) and [presentation](#) (Aaron & Lauren)
  - iii) Carnegie Learning blog post:  
<https://www.carnegielearning.com/blog/learning-engineering-classroom/>
  - iv)
- b) The next ICICLE Community Call is on **Wednesday 21 September 2022** at 9amPT/NoonET.

## 26) Today's Speaker...

Jim Goodell & Aaron Kessler (& the conference contributors)  
**IEEE ICICLE Conference Overview**

## ICICLE Community Call : 15 June 2022, Noon EDT

**Attending:** Erin Czerwinski, Emily Marasco, Aaron Kessler, Michael Jay, Lauren Totino, Mollie McCormick, Elizabeth Gross, Rodney Beard, Anne Fensie, Chris Rennison, Kenza Filali, Jodi Lis, Avron Barr, Jim Goodell, George Stein

**Review of the Agenda** and any additions (MJay) (1 min)

**27) New participants** - Add your name, email address, and affiliation. Prepare to give a really short auditory intro

- a)
- b)

**28) Update on the status of the Learning Engineering Toolkit - Jim Goodell**

- a) The book will be ready for the conference

**29) Conferences - Aaron Kessler and Jim Goodell**

- a) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT
  - (1) Registration is open!
  - (2) Free registration for volunteers (up to 10)

- (3) Note that there will be no concurrent sessions, we'll engage together throughout the conference
- (4) Share understanding of LE to grow community
- b) June 16-July 1 HCII (LE Paper included)
- c) June 26 - 30 eLmL - Two papers on LE (one from the Totino & Kessler and one from Van Campenhout & Kessler)
- d) July 1-4 IEEE ICALT (LE Paper)
- e) October 10-14 Human Factors and Ergonomics Society (LE Paper)
- f) October 24-26 AECT Annual Conference (LE Session)
- g) November 6-9 Learning Guild - Learning 2022 (possible LE presentation)
- h) Nov 28- Dec 2 IITSEC National Training & Simulation Association (NTSA) - LE workshop
- i)

### 30) ICICLE Business

- a) Join and promote Discord community <https://discord.com/invite/NeWwV8ke>
- b) We want to hit the ground running after the conference
  - i) Launch into other communities
  - ii) SIG and MIG initiated webinars for various audiences
  - iii) Jim Paradiso, ICICLE Outreach Chair, will be in touch with SIG and MIG leads to schedule planning
- c) Start a K-12 MIG
- d) Start a Learning Engineering Grad student SIG
  - i) Lauren and Janett
- e) Plan a Biennial Review of LE... or is it a quarterly newsletter?
  - i) Discussion about what best addresses ICICLE community member needs

### 31) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Meetings on hold until after the conference
  - iii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Design for Learning - Aaron Kessler
  - i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute  
(<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii) No meeting scheduled for May or June! Meetings are normally the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:

(1)

c) Instrumentation & so much more! - Erin Czerwinski

([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).

- i) Meets the last Thursday of each month: Next meeting is June 30th, 2-3 ET
- ii) [Meeting notes and agenda](#)
- iii) Interested in participating, leave your name and email address here (and/or join the next meeting):

(1)

### 32)MIG Updates

a) Higher Ed MIG -

- i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
- ii) Themes: Identification, Visibility, Collaboration
- iii) June's discussion topic was sharing ongoing research and preparing our introductory statement for the conference
- iv) September's guest speaker will be Jodi Lis on global learning engineering initiatives
- v) Taking a break for July and August
- vi) Normally the First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **September 6th**.
- vii) Interested in participating, leave your name and email here:

(1) Chris Rennison - [c.rennison@csuohio.edu](mailto:c.rennison@csuohio.edu)

(2)

b) Corporate MIG : Jessie Chuang and Brandt Dargue

- i) Meets last Friday of the month at 10amCT - 27 May
- ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- iii) [Shared folder](#)

(1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)

iv) Interested in participating, leave your name and email here:

(1)

### 33)Final Mtg Items:

a) Announcements from participants

i)

b) The next ICICLE Community Call is on **Wednesday 20 July 2022** at 9amPT/NoonET. NOTE: We will not have a Community Call in August.



### **34) Today's Speaker...**

Sreecharan "Sree" Sankaranarayanan is a Research Scientist in Human and Machine Learning at Amazon and a Ph.D. candidate in absentia at the Language Technologies Institute of Carnegie Mellon University. He served as the founding co-chair of the International Learning Sciences student Association (ILSSA) and currently serves on the Education Committee of the International Society of the Learning Sciences (ISLS). His dissertation research focused on building AI-facilitated collaborative programming activities at scale, for higher ed. and vocational learning contexts, which he is extending to the workplace learning context at Amazon.

## **ICICLE Community Call : 18 May 2022, Noon EDT**

**Attending:** Michael Jay, Lauren Totino, Leonora Zefi, Erin Czerwinski, Avron Barr, Jodi Lis, Brandt Redd, Aaron Kessler, Amy Parent, George R. Stein, Charles Fadel, Andrew McCallister, Shalaka Damle, Emily Marasco, Susmita Pratihast, Owen McGrath, Ian Gibson, Joshua Callman, Jim Goodell, Erin Mote

**Review of the Agenda** and any additions (MJay) (1 min)

### **35) New participants** - Add your name, email address, and affiliation

Prepare to give a really short auditory intro

### **36) Update on the status of the Learning Engineering Toolkit - Jim Goodell**

- a) Book will be ready for the conference

### **37) Conferences - Aaron Kessler and Jim Goodell**

- a) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT
  - (1) Registration is open!
  - (2) Free registration for volunteers (up to 10)
  - (3) Note that there will be no concurrent sessions, we'll engage together throughout the conference
  - (4) Share understanding of LE to grow community

### **38) ICICLE Business**

- a) Introducing a new position
  - i) Outreach Chair - Jim Paradiso
  
- b) We want to hit the ground running after the conference

- i) Launch into other communities
- ii) SIG and MIG initiated webinars for various audiences
- c) Work in a more coordinated fashion with the IEEE Computer Society
  - i) Technical Community of Learning Technology (TCLT)
    - (1) How to engage and interact: Possible use cases of how learning engineering can be applied to learning technologies that TCLT engages with
- d) Start a K-12 MIG
- e) Start a Learning Engineering Grad student SIG
  - i) Lauren and Janet
- f) Plan a Biennial Review of LE... or is it a quarterly newsletter?
  - i) Discussion about what best addresses ICICLE community member needs
- g) Join and promote Discord community <https://discord.com/invite/NeWwV8ke>

### 39) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Meetings on hold until after the conference
  - iii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Design for Learning - Aaron Kessler
  - i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSl6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - ii) No meeting scheduled for May! Meetings are normally the last Tuesday of the Month from 2-3pm ET. Interested in participating, leave your name and email here:
    - (1)
- c) Instrumentation & so much more! - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
  - i) Meets the last Thursday of each month: Next meeting is June 23rd, 2-3 ET
  - ii) [Meeting notes and agenda](#)
  - iii) Interested in participating, leave your name and email address here (and/or join the next meeting):
    - (1)

### 40) MIG Updates

- a) Higher Ed MIG -
  - i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
  - ii) Themes: Identification, Visibility, Collaboration
  - iii) June's guest speaker is Jodi Lis on global learning engineering initiatives
  - iv) First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **June 7th** (break for July/August)
    - (1) Interested in participating, leave your name and email here:
      -
  
- b) Corporate MIG : Jessie Chuang and Brandt Dargue
  - i) Meets last Friday of the month at 10amCT - 27 May
  - ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii) [Shared folder](#)
    - (1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)

#### 41)Final Mtg Items:

- a) Announcements from participants
  - i) New Preprint from Aaron and Lauren- <https://osf.io/y3cfb/>
  
- b) The next ICICLE Community Call is on **Wednesday 15 June 2022** at 9amPT/NoonET

#### 42)Today's Speakers...

An Overview of the Blueprint for Inclusive Research and Development in Education (BIRD-E)

Susmita Pratihast, Project Director, Shalaka Damle, Project Associate, and Erin Mote, Co-Founder and Executive Director, of InnovateEDU

The Blueprint is an open-source framework that aims to modernize education research through a common, research-based data language to bridge the divide between research and practice in the K-12 data ecosystem. The common data language synchronizes research definitions, benchmarks, and metrics for evidence-supported interventions that impact student outcomes.

The goal of the framework is to facilitate engagement of all types of stakeholders in inclusive, accessible, and robust generation and use of

research. Join the community call discussion on how the learning engineering process can be applied in education research.

## **ICICLE Community Call : April 20, 2022, Noon EDT**

**Attending:** Jodi, Erin, Avron, Melanie Jensen, Lauren Totino, Oliver Pincus, Jim Goodell, Avron Barr, Janet Kolodner, Kristin Torrence, David Topolewski, Mollie McCormick (govt), Anne Fensie, Andrew McCallister, Emily Marasco, Leonora Zefi

**Review of the Agenda** and any additions (MJay) (1 min)

- 1) New participants** - Add your name, email address, and affiliation  
Prepare to give a really short auditory intro
  
- 2) Update on the status of the Learning Engineering Toolkit - Jim Goodell**
  - a) Book will be ready for the conference
  
- 3) Conferences - Aaron Kessler and Jim Goodell**
  - a) Two conferences
    - i) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT
      - (1) Registration coming soon
      - (2) 10 free registration for volunteers
      - (3) Note that there will be no concurrent sessions, we'll engage together throughout the conference
      - (4) Share understanding of LE to grow community
    - ii) OLC collaboration is not happening this year... hopefully next!
  
- 4) ICICLE Business**
  - a) We want to hit the ground running after the conference
    - i) Launch into larger community
    - ii) SIG and MIG initiated webinars with allied organizations:
      - (1) IEEE Computer Society
      - (2) AETC\*
      - (3) Dublin Core\*
      - (4) ISTE
      - (5) EduCause
      - (6) NSTA\*
      - (7) NCTM
      - (8) NTSA

- (9) CoSN
- (10) NAPLES\* (Part of the International Conference on Learning Sciences)
- (11) OLC
- (12) Quality Matters (particularly their Instructional Designers Assoc.)
- (13) <https://openeducationconference.org/>
- (14) [Learning Analytics Collaborative](#)
- (15) [Society for Learning Analytics Research](#) (SoLAR)
- b) Work in a more coordinated fashion with the IEEE Computer Society
  - i) Technical Community of Learning Technology (TCLT)
    - (1) How to engage and interact: Possible use cases of how learning engineering can be applied to learning technologies that TCLT engages with
- c) Start a K-12 MIG
- d) Start a Learning Engineering Grad student SIG
  - i) Could start at conference - BC's Learning Engineering, Harvard School of Education's Learning Design, Innovation and Technology
  - ii) Guest lecture (in person or virtual) instructional design programs/courses - Introduction to Learning Engineering and invite students to join ICICLE
  - iii) students reaching out to students
  - iv) Find books that mention learning engineering and what courses at what universities use those books
- e) Plan a Biennial Review of LE...
  - i) Academic or non-academic (use cases & implementation examples)?
  - ii) Announce now and schedule for 2024
- f) Join and promote Discord community <https://discord.com/invite/NeWwV8ke>

## 5) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Meeting on hold until after the conference
  - iii) Interested in participating, leave your name and email here:
    - (1)
    - (2)
- b) Design for Learning - Aaron Kessler
  - i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute  
(<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).

- ii) Meetings are the last Tuesday of the Month from 2-3pm ET, April 26th. Interested in participating, leave your name and email here:  
(1)

c) Tools - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).

- i) Meets the last Thursday of each month: Next meeting is April 28th, 2-3 ET
- ii) [Meeting notes and agenda](#)
- iii) Interested in participating, leave your name and email address here (and/or join the next meeting):  
(1)

## 6) MIG Updates

a) Higher Ed MIG -

- i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
- ii) Themes: Identification, Visibility, Collaboration
- iii) April topic continued discussion around starting learning engineering courses/programs at postsecondary institutions, May's topic will be around best practices for data collection/privacy
- iv) First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **May 3rd**.

(1) Interested in participating, leave your name and email here:

○

b) Corporate MIG : Jessie Chuang and Brandt Dargue

- i) Meets last Friday of the month at 10amCT - 29 April
- ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- iii) [Shared folder](#)

(1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#)

## 7) Final Mtg Items:

- a) Announcements from participants
- i)

- b) The next ICICLE Community Call is on **Wednesday 18 May 2022** at 9amPT/NoonET

## 8) Today's Speaker...

Dr. Maiga Chang is a Full Professor in the School of Computing Information and Systems at Athabasca University, Canada. His research areas mainly focus on game-based learning, training and assessment; mobile learning and ubiquitous learning; museum learning; learning behaviour analysis; learning analytics and academic analytics; health informatics; data mining and artificial intelligence; intelligent agent technology; multi-agent system; natural language processing; and, mobile health.

Dr. Chang is Chair of IEEE Technical Committee of Learning Technology (TCLT, <https://tc.computer.org/tclt>), an Executive Committee member of Asia-Pacific Society for Computers in Education (APSCE, <https://www.apsce.net/>), Global Chinese Society for Computing in Education (<http://gcsce.org/>), and Chinese Society for Inquiry Learning (<http://csil.linc.hinet.net/>). He is Secretary and Treasurer of International Association of Smart Learning Environments.

## **ICICLE Community Call : March 16, 2022, Noon EDT**

**Attending:** Aaron Kessler, Karen Rege, Anne Knowles, Lauren Totino, Melanie Masessa, Erin Czerwinski, John Costa, Oliver Pincus, Janet Kolodner, Gerri Light, Jim Paradiso, Jennifer Turns, Avron Barr, Stephanie Payzant, Gerri Light, Emily Marasco, Kevin Owens, Owen McGrath, George Stein, Kevin Gluck, David Topolewski, Chris Blakesley, Stanislaw Pstrokowski, Amy Parent, Taylor Pinkis, Kristin Torrence, Dina Kurzweil, Vlad Goodovsky, Laura Lukes, Michael Jay, Jodi Lis

**Review of the Agenda** and any additions (MJay) (1 min)

**1) New participants** - Add your name, email address, and affiliation

Prepare to give a really short auditory intro

1. Jennifer Turns - [jturns@uw.edu](mailto:jturns@uw.edu)
2. Stephanie Payzant - [spayzant@post.edu](mailto:spayzant@post.edu)
3. Gerri Light - [gerri.light@gmail.com](mailto:gerri.light@gmail.com), [gerri.light@wgu.edu](mailto:gerri.light@wgu.edu)

**2) Update on the status of the Learning Engineering Toolkit - Jim Goodell**

**3) Conferences - Aaron Kessler and Jim Goodell**

a) Two conferences

- i) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT

- ii) The 1st Annual Learning Engineering Symposium in conjunction with the OLC
  - (1) Hit some bumps
- iii) Conference Committee next meets Tuesday 22 March at 2pmET  
Interested in joining the conference committee, leave your name and email here:
  - (1) Jennifer Turns (interested in attending at least one meeting to understand the potential alignment, plus I enjoy designing things like conferences)
  - (2) Gerri Light (much the same as Jennifer above)  
gerri.light@gmail.com

#### 4) ICICLE Business

- a) Turn your passion into action! Looking for
  - i) ICICLE Conference
  - ii) Workshops on various aspects of LE
  - iii) Webinars with allied organizations:
    - (1) IEEE Computer Society
    - (2) AETC\*
    - (3) Dublin Core\*
    - (4) ISTE
    - (5) EduCause
    - (6) NSTA\*
    - (7) NCTM
    - (8) NTSA
    - (9) CoSN
    - (10) NAPLES\* (Part of the International Conference on Learning Sciences)
    - (11) *Others?*
    - (12) OLC
    - (13) Quality Matters (particularly their Instructional Designers Assoc.)
    - (14) <https://openeducationconference.org/>
  - iv) LE Podcast rejuvenation
  - v) Digital version of the LE Book
  - vi) ICICLE Outreach (Marketing)
- b) Erin Czerwinski and Michael Jay Brainstormed some additional possible items
  - i) Biennial trends in Learning Engineering (great idea; Janet; happy to help; Aaron Kessler)
  - ii) ICICLE Scholarships for students
  - iii) Projects of Distinction in LE



- c) If any of this interests you... leave your name & email here and indicate which item(s) interest you:
- i)
  - ii)

## 5) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
- i) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Next April 8th 3pm EDT
  - iii) CCC has a draft Competency Framework Branch for the Data Science role within a learning engineering team. (Currently defined at the task level.) We'd like to invite community comments at this point.  
The draft is here: [DRAFT Data Science Tasks Branch for the IEEE ICICLE Learning Engineering Competency Framework](#)
  - iv) Interested in participating, leave your name and email here:
    - (1) Taylor Pinkis [tpinkis27@gmail.com](mailto:tpinkis27@gmail.com)
    - (2)
- b) Design for Learning - Aaron Kessler
- i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - (1) See as an example:  
<https://openlearning.mit.edu/mit-faculty/residential-digital-innovations/operationalizing-learning-engineering-process-online>
  - ii) Meetings are the last Tuesday of the Month from 2-3pm ET, March 29th. Interested in participating, leave your name and email here:
    - (1) Jennifer Turns ([jturns@uw.edu](mailto:jturns@uw.edu))
    - (2) Amy Parent [aparent@saliencelearning.com](mailto:aparent@saliencelearning.com)
    - (3) George R. Stein ([georstein@gmail.com](mailto:georstein@gmail.com))
    - (4) John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))
- c) Tools - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
- i) Meets the last Thursday of each month: Next meeting is March 31st, 2-3 ET
  - ii) [Meeting notes and agenda](#)

- iii) Interested in participating, leave your name and email address here (and/or join the next meeting):
  - (1) John Costa ([jbcosta@repubit.com](mailto:jbcosta@repubit.com))

## 6) MIG Updates

### a) Higher Ed MIG -

- i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)
- ii) Themes: Identification, Visibility, Collaboration
- iii) March topic was around starting learning engineering courses/programs at postsecondary institutions (led by Lauren) – discussion to be continued in April!
- iv) First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **April 5th.**

(1) Interested in participating, leave your name and email here:

- Stephanie Payzant, [spayzant@post.edu](mailto:spayzant@post.edu)
- Jennifer Turns, [jturns@uw.edu](mailto:jturns@uw.edu)

### b) Corporate MIG : Jessie Chuang and Brandt Dargue

- i) Meets last Friday of the month at 10amCT - 25 March
- ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- iii) [Shared folder](#)

(1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#):

### Challenges / Opportunities:

- Inter-system interoperability on the development side
- IEEE Actionable data book  
Understand people's problems from different contexts to inform development of projects in (e.g.) predictive analytics)
- Consolidating different approaches to design process
  
- **Goal of disseminating LE practices (launch of LE book this year - Jim Goodell)**
- **What can this group do to create "byte sized" pieces to promote LE concepts**
- **How to reduce cognitive barrier in gaining knowledge on LE**
- **MVP of online toolkit based on book**
  - **Great to get input from this Corporate SIG on developing the MVP**
  - E.g. task analysis, cognitive analysis to determine learning goals
  - What are the learning sciences concepts that need to be considered
  - Digital tools / inputs / outputs
  - Domain experts can apply LE in creating learning (think of no-code Machine Learning with AutoML for domain experts)

- **Business Process Modeling** (Digital asset management system)
  - Standardized Workflow
  - Could bring this more into the L&D space (John Costa)
  - Updates are easy to push in and schedule for deployment
- E.g. SmartFlow Tool Set (John could demo)
  - iv)
  - v) Interested in participating, leave your name here:  
(1)

## 7) Final Mtg Items:

- a) Announcements from participants
  - i) George Stein: I am celebrating my just finished Doctorate in Education - Differentiated teacher-student mediation: self-knowledge and differentiated instruction at the service of the teacher-student relationship. Looking forward collaborating and partnering to develop it in other contexts ;)
  
- b) The next ICICLE Community Call is on **Wednesday 20 April 2022** at 9amPT/NoonET

## 8) Today's Speaker...

Kevin Gluck is a cognitive scientist with a career history that has repeatedly intersected with learning sciences and technologies. His Masters and PhD research at Carnegie Mellon involved a combination of computational cognitive modeling and intelligent tutoring systems. During his subsequent 20+ years with the Air Force Research Laboratory, Kevin started a research team dedicated to predictive mathematical modeling of human memory dynamics for individualized training applications and was AFRL's first ever Core Research Area Lead for Personalized Learning and Readiness Sciences. Now as Chief Scientist at [Resilient Cognitive Solutions](#), Kevin is exploring connections and opportunities between Cognitive Systems Engineering and related fields, to include Learning Engineering.

## **ICICLE Community Call : February 16, 2022, Noon EDT**

**Attending:** Michael Jay, Joan Woolery, Anne Fensie, Joey Losier, Aaron Kessler, Lauren Totino, Jim Goodell, Rodney Beard, Avron Barr, Chris Blakesley, Dina Kurzweil, Leonora Zefi, Muffie Wiebe Waterman, Oliver Pincus, Kristin Torrence, Taylor Pinkis, Nkaepe Olaniyi, Laura Lukes, John Murray, Emily Marasco, Barish Golland, Andrew McCallister, GERALYN WINTERS, Leonora, Vlad Goodovsky, Jessie Chuang, Brandt Dargue

**Review of the Agenda** and any additions (MJay) (1 min)oo

### **9) New participants** - Add your name, email address, and affiliation

Prepare to give a really short auditory intro

- a) Allan Johnson ([ajohnson@unicon.net](mailto:ajohnson@unicon.net), [Unicon, Inc.](#))
- b) George R. Stein ([georstein@gmail.com](mailto:georstein@gmail.com) , georgerstein at LinkedIn)
- c) GERALYN WINTERS ([januarygirl651@gmail.com](mailto:januarygirl651@gmail.com) Booz Allen Hamilton)

### **10) Update on the status of the Learning Engineering Toolkit - Jim Goodell**

### **11) Conferences - Aaron Kessler and Jim Goodell**

- a) Two conferences
  - i) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Dates! July 26-28 at MIT
  - ii) The 1st Annual Learning Engineering Symposium in conjunction with the OLC
    - (1) Thursday 5 May 2022  
Cinco de Mayo - computer CHIPS & DIP switches
    - (2) ½ Day - all virtual
    - (3) Anne Fensie and Jim Paradiso are working with the OLC to put together the program within the OLC Ideate processes
      - o Interested in helping?
- b) Conference Committee next meets Friday 18 February at 2pmET  
Interested in joining the conference committee, leave your name and email here:
  - i)

### **12) ICICLE Business**

- a) ICICLE is part of the LTSC which is part of the SA
  - i) Jim Goodell is stepping up as chair of the LTSC
- b) Lots of new activities we would like in 2022/3
  - i) OLC Ideate on Learning Engineering
  - ii) ICICLE Conference
  - iii) Workshops on various aspects of LE
  - iv) LE Podcast rejuvenation
  - v) Digital version of the LE Book
  - vi) ICICLE Outreach (Marketing)
- c) Putting together a sponsorship bundle
- d) Erin Czerwinski and Michael Jay Brainstormed some additional possible items
  - i) Semi-annual trends in Learning Engineering
  - ii) ICICLE Scholarships for students
  - iii) Projects of Distinction in LE
- e) If any of this interests you... leave your name and email here:
  - i) Muffie Waterman [muwiebe@cisco.com](mailto:muwiebe@cisco.com)
  - ii)

### 13) SIG Updates

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) 2nd Friday of every month at 3pm ET.  
<https://ieesa.webex.com/meet/jgoodell>
  - ii) Next March 11th 3pm EDT
  - iii) CCC has a draft Competency Framework Branch for the Data Science role within a learning engineering team. (Currently defined at the task level.) We'd like to invite community comments at this point.  
The draft is here: [DRAFT Data Science Tasks Branch for the IEEE ICICLE Learning Engineering Competency Framework](#)
  - iv) Interested in participating, leave your name and email here:
    - (1) Joey Losier ([losierj@navcanada.ca](mailto:losierj@navcanada.ca))
    - (2)
- b) Design for Learning - Aaron Kessler
  - i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute (<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).
  - (1) See as an example:  
<https://openlearning.mit.edu/mit-faculty/residential-digital-inn>

[ovations/operationalizing-learning-engineering-process-online](#)

- ii) Meetings are the last Tuesday of the Month from 2-3pm ET, February 22nd. Interested in participating, leave your name and email here:
  - (1) Joey Losier ([losierj@navcanada.ca](mailto:losierj@navcanada.ca))
  - (2)
  
- c) Tools - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).
  - i) Meets the last Thursday of each month: Next meeting is February 24th, 2-3 ET
  - ii) [Meeting notes and agenda](#)
  - iii) In the last meeting, we decided we want to do more of the following:
    - (1) Collect case studies of folks who are implementing new initiatives for data collection and analytics.
    - (2) Attempt to matrix tools and data needed by different roles in an organization
    - (3) Work better with other SIGs to find collaborations (for example, collaborate with the Design SIG to understand data needed to answer design questions)
    - (4) Identify speakers to invite to the meetings to talk about their tools/data collection/analytics journeys.
    - (5) We will weave everything we learn into the Instrumentation Primer to help others who might be starting from scratch. I'd like to let folks know to please contact me if they have stories to share, problems to solve with tools and data, or want to contribute in any way to the [Instrumentation Primer](#) we started last year.
  - iv) Interested in participating, leave your name and email address here (and/or join the next meeting):
    - (1)

#### 14)MIG Updates

- a) Higher Ed MIG -
  - i) Emily Marasco, University of Calgary, [emarasco@ucalgary.ca](mailto:emarasco@ucalgary.ca)
  - ii) Themes: Identification, Visibility, Collaboration
  - iii) February speaker was Jim Goodell speaking on the CCC SIG and the creation of the competency framework
  - iv) March topic around starting learning engineering courses/programs at postsecondary institutions (led by Lauren)
  - v) First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **March 1st.**

(1) Interested in participating, leave your name and email here:

- Leonora Zefi - [lzefi@ryerson.ca](mailto:lzefi@ryerson.ca)
- Chris Blaksley - [chris.blakesley@rm.edu](mailto:chris.blakesley@rm.edu)

b) Corporate MIG : Jessie Chuang and Brandt Dargue

- i) Meets last Friday of the month at 10amCT - 25 February
- ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
- iii) [Shared folder](#)

(1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#):

**Challenges / Opportunities:**

- Inter-system interoperability on the development side
- IEEE Actionable data book  
Understand people's problems from different contexts to inform development of projects in (e.g.) predictive analytics)
- Consolidating different approaches to design process
  
- **Goal of disseminating LE practices (launch of LE book this year - Jim Goodell)**
- **What can this group do to create "byte sized" pieces to promote LE concepts**
- **How to reduce cognitive barrier in gaining knowledge on LE**
- **MVP of online toolkit based on book**
  - **Great to get input from this Corporate SIG on developing the MVP**
  - E.g. task analysis, cognitive analysis to determine learning goals
  - What are the learning sciences concepts that need to be considered
  - Digital tools / inputs / outputs
  - Domain experts can apply LE in creating learning (think of no-code Machine Learning with AutoML for domain experts)
  
- **Business Process Modeling** (Digital asset management system)
  - Standardized Workflow
  - Could bring this more into the L&D space (John Costa)
  - Updates are easy to push in and schedule for deployment
- E.g. SmartFlow Tool Set (John could demo)
- iv)
- v) Interested in participating, leave your name here:  
(1)

**15)Final Mtg Items:**

- a) Announcements from participants

i)

b) The next ICICLE Community Call is on **Wednesday 16 March 2022** at 9amPT/NoonET

### 16) Today's Speaker...

[Dr. Muffie Waterman](#), Learning Scientist, [Cisco Corporate Social Responsibility](#), [Cisco Systems, Inc.](#) She supports learning initiatives including the [Cisco Networking Academy](#), which has offered IT and cybersecurity courses in 181 countries since 1997, and [Skills For All](#), the latest advancement in Cisco's purpose to power an inclusive digital future and empower people with career opportunities. Muffie will provide general overview of Cisco's [Corporate Social Responsibility](#) programs, focus in on their learning initiatives, and drill down [how Cisco Networking Academy's Learning Engineering team creates a pathway to new skills](#).

Interview questions:

Q: How does L&D for employees change in the past 2 years?

Q: Do you also serve the company's L&D needs in Learning Engineering/Science? is there some common ground between it and the CSR education program?

Q: Can you introduce the CSR technical education program and its evolution over these years? (content, goal, learning model, etc)

Q: How does Learning Engineering play its role in employees' L&D and CSR technical education and the value of LE?

Q: What's the impact of the CSR education program on global learners and local economies? (numbers?)

Q: What do you envision in the future of work and learning? How can learning science (brain science and engineering method) be used to enhance work performance and learning outcomes? (potential not realized yet)

## ICICLE Community Call : January 19, 2022, Noon EDT

**Attending:** Aaron Kessler, Laura Lukes, Erin Czerwinski, Jim Goodell, Michael Jay, Brandt Dargue, Robby Robson, Jessie Chuang, Lauren Totino, Emily Marasco, Leonora Zefi, Melanie Jensen, Janet Kolodner; Oliver Pincus, Avron Barr, Andrew McCallister, Bonnie Boardman, Viktor Haag (D2L), Jess Resig, Jim Goodell, Jodi Lis, Kevin Owens, Kimberly Sinnott, Molly Mc.

**Review of the Agenda** and any additions (MJay) (1 min)



**17)New participants** - Add your name, email address, and affiliation

Prepare to give a really short auditory intro

- a) Barish Golland, [barish.golland@twu.ca](mailto:barish.golland@twu.ca), Trinity Western University, Senior Learning Technology Specialist specializing in learning ecosystem design and analytics and virtualized facilitated engagement.

**18)ICICLE Business**

- a) Lots of new activities planned for 2022/3
  - i) OLC Ideate on Learning Engineering
  - ii) ICICLE Conference
  - iii) Workshops on various aspects of LE
  - iv) LE Podcast rejuvenation
  - v) Digital version of the LE Book
  - vi) ICICLE Outreach (Marketing)
- b) Putting together a sponsorship bundle
- c) Looking for volunteers to work together to put together the bundle and provide descriptive materials.
- d) Heck ya... I'm interested in helping out! (name and email, please)
  - i) Erin Czerwinski

**19)Update on the status of the Learning Engineering Toolkit - Jim Goodell**

**20)Conferences - Aaron Kessler and Jim Goodell**

- a) Two conferences
  - i) Summer conference structured around chapters in the Learning Engineering Toolkit - Save the Date! July 26-28 - Boston
  - ii) Working toward a spring 2022 conference with OLC (Online Learning Consortium)
- b) Outcomes from the first conference committee mtg.
- c) Conference Committee next meets Friday 4 February at NoonET  
Interested in joining the conference committee, leave your name and email here:
  - i)

**21)SIG Updates**

- a) Competencies Credentialing Curriculum - Jim Goodell
  - i) 2nd Friday of every month at 3pm ET.  
<https://ieeesa.webex.com/meet/jgoodell>
  - ii) Next February 11th 3pm EDT
  - iii) CCC has a draft Competency Framework Branch for the Data Science role within a learning engineering team. (Currently defined

at the task level.) We'd like to invite community comments at this point.

The draft is here: [DRAFT Data Science Tasks Branch for the IEEE ICICLE Learning Engineering Competency Framework](#)

iv) Interested in participating, leave your name and email here:

(1)

b) Design for Learning - Aaron Kessler

i) We invite anyone with examples or cases of LE design and design work within the LE process framework to contribute

(<https://drive.google.com/drive/folders/1a1iEMSI6YBOsvWoUi2JFOoHXDj7UhZwM>).

(1) See as an example:

<https://openlearning.mit.edu/mit-faculty/residential-digital-innovations/operationalizing-learning-engineering-process-online>

ii) Meetings are the last Tuesday of the Month from 2-3pm ET, January 25th. Interested in participating, leave your name and email here:

(1)

(2)

c) Tools - Erin Czerwinski ([eczerwinski@cmu.edu](mailto:eczerwinski@cmu.edu)).

i) Meets the last Thursday of each month: Next meeting is January 27th, 2-3 ET

ii) [Meeting notes and agenda](#)

iii) Please add comments and suggestions to the [Instrumentation Primer](#)

iv) Interested in participating, leave your name and email address here (and/or join the next meeting):

(1)

## 22)MIG Updates

a) Higher Ed MIG -

i) Emily Marasco, University of Calgary, [eamarasc@ucalgary.ca](mailto:eamarasc@ucalgary.ca)

ii) Themes: Identification, Visibility, Collaboration

iii) January speaker was Alison Carr-Chellman from University of Dayton speaking on research initiative for defining “learning engineer”

iv) February speaker will be Jim re: CCC Sig, tentative March topic around starting learning engineering courses/programs at postsecondary institutions (will be happy to do this; when is the meeting? JLK - thanks Janet, I'll email you directly! EM)

- v) First Tuesday of the month, 10 am MT/12 pm ET, next meeting is **Feb 1st.**
  - (1) Interested in participating, leave your name and email here:  
Leonora Zefi - lzefi@ryerson.ca
  
- b) Corporate MIG : Jessie Chuang and Brandt Dargue
  - i) Meets last Friday of the month at 10amCT
  - ii) If you'd like to join [the group](#), send an email to Jessie - [jessie@classroomaid.org](mailto:jessie@classroomaid.org)
  - iii) [Shared folder](#)
    - (1) [Corporate L&D leaders Interviews](#) & [Highlights of interviews](#):
  - iv) Roundtables:
    - (1) Teach and Learn workshops (join us, [sign up with survey](#))
    - (2) Industry/corporate engagement: solving corporate challenges by Learning Engineering powerful tools and Learner Engineers as business partners, now brainstorming and putting together a plan
  - v) Interested in participating, leave your name here:
    - (1)

### 23)Final Mtg Items:

- a) Announcements from participants
  - i)
  
- b) The next ICICLE Community Call is on **Wednesday 16 February 2022** at 9amPT/NoonET

### 24)Today's Speaker...

**Dr. Bonnie Boardman**, Professor of Instruction and the Undergraduate Program Director for the Industrial, Manufacturing, and Systems Engineering (IMSE) Department, University of Texas at Arlington (UTA).

Industrial engineers enable organizations to achieve their goals efficiently and effectively by balancing cost, personnel, technology, system constraints, safety, and the environment.

What can we learn about how we define and describe Learning Engineering based on what Dr. Boardman shares with us.