Cyberlearning 2016
Designing for Deeper, Broader, and More Equitable Learning

We started our day with some inspiring words.

Jeremy Roschelle & Joan Ferrini-Mundy @NSF welcome #NSFCL16 attendees 4 #cyberlearning 2016 circlcrnter.org pic.twitter.com/VmOhA3bw1E
Welcoming Remarks from NSF and Program Overview

Cyberlearning Center
@CIRCLCenter

Thanks for the mention of the Buddies at #NSFCL16 @JFerriniMundy. We are excited to have them help broaden impacts & expand our community.

Joe Polman
@joepolman

Cyberlearning mtg taking off. New emphases for NSF include "human-technology frontier" such as maker movement & citizen science #NSFCL16
Joan Ferrini-Mundy @NSF poses quest 2 #NSFCL16-How tech help learn difficult content-skills & learn about learning pic.twitter.com/FRmYEda90O

@ALSBYERS - 2 YEARS AGO

Eni Mustafaraj @enimust

The charge: use technology not only to support learning, but to understand how people learn by harnessing the generated big data. #NSFCL16

@enimust - 2 YEARS AGO

And then we launched into getting to know each other better for our 2 days together.

Lauren Goldenberg @LaurGoldenberg

What an exuberant start to a Sunday AM #cyberlearning speed dating! #NSFCL16

@LaurGoldenberg - 2 YEARS AGO
Early morning networking #NSFCL16 pic.twitter.com/mJb2fiB2NB

CYNTHIA D'ANGELO @DAPOSTROPHE · 2 YEARS AGO

#NSFCL16 Looking forward to learning from many colleagues today at CIRCL/NSF's Cyberlearning 2016.

UCARConnect @UCARConnect

2 YEARS AGO

Hello Day 1 at #NSFCL16 - I'm interested in strategies to teach computational thinking in informal learning environments.

Keith Ostfeld @KeithOstfeld

2 YEARS AGO
3 exiting days ahead with #NSFCL16 conf coming up - let's revolutionize STEM teaching for diverse learners @labster pic.twitter.com/zpedX8slJR

We went into roundtable discussions.

Mary Patterson
@map10323

An inspiring round table on engaging youth in STEM- Infographics and Science Everywhere- new ideas to take back to #CFISDESED #NSFCL16
Had a blast discussing communities and #teachers #online at Cyberlearning 2016 bit.ly/1X5nB1f #NSFCL16 pic.twitter.com/EQG5EWEaBz

DENISE C. NACU @DCNACU - 2 YEARS AGO

Teachers Online roundtable discussion-what motivates teachers to rate online professional learning library resources? #nsfcl16

Lauren Goldenberg @LaurGoldenberg

2 YEARS AGO

Great discussion at the Scalable Tools roundtable! I have new ways to think about the difference between dissemination and scaling. #NSFCL16

Katie Rich @ChiTownKatie

2 YEARS AGO
Christine Greenhow
@chrisgreenhow

Productive discussion at the Engaging Youth in STEM roundtable. Thanks @joepolman & @TammyUMD #NSFCL16 #cyberlearning

CrystleM
@CrystleM

Energizing discussion about Scientizing and Science Everywhere - @tlclegg Roundtable Engaging Youth in STEM #NSFCL16

@SherryHsi shares Paper Mechatronics percussion fun at #NSFCL16 “making” rnd tbl FoldMecha software forthcoming pic.twitter.com/QeSX2dM4aP

BREANNE LITTS @SUNSHINEBLITTS  @JoseBlackorby  2 YEARS AGO
Making workshop at the #NSFCL16 inspired two project ideas for my H.S. biology class, and a new framework to design projects. Great start!

Dr. Julia Parra
@desertjul

@mikkel_marfelt thank you for the demo! As I recover from VR vertigo, I'm hoping to learn more about your VR STEM lab... #NSFCL16

And then Keynotes with Nichole Pinkard and Peggy Weil.

To make informal learning count, systematically document learning -- Nicole Pinkard #NSFCL16 keynote @CIRCLCenter pic.twitter.com/qaB36O3Pao
Watch the Keynote

Nichole Pinkard, Using Cyberlearning to Create Equitable Learning Opportunities at City-Scale
Creating hi quality programs only part of equation. Other parts-parents as partners, safety, transportation #NSFCL16 pic.twitter.com/s0OkPeHnOp

Joe Polman
@joepolman

@npinkard describes how connected learning in a city like Chicago drives learning as a lifestyle, connected to identity #NSFCL16

caitlin
@caitlinkm

We have been focusing on programming but we need to be focusing on spaces and community @npinkard #NSFCL16
.@npinkard talking about designing for the full ecology of where learning happens #NSFCL16
pic.twitter.com/ZzvGfRMBPh

@NATHAN HOLBERT @MCLARGEH @LaruX · 2 YEARS AGO

Chad Dorsey
@chaddorsey

Important concept: Learning deserts — How can we make sure opportunities exist accessibly for all? @npinkard at #NSFCL16

@chaddorsey · 2 YEARS AGO

Chris Hoadley
@tophe

what if cities had as many makerspaces as parks and libraries? spaces drive programming. @npinkard @andrewcoy #NSFCL16 #makered

@tophe · 2 YEARS AGO
Victor R. Lee
@VicariousLee

Virtual sidebar: schools are & will still need to be part of smart and connected cities. Curriculum & assumptions might change tho. #NSFCL16

Christine Greenhow
@chrisgreenhow

Peggy Weil now keynoting on Immersive Journalism and Data Visualization for Civic Engagement ow.ly/jxGy300VW9C #NSFCL16 #cybelearning

Jeremy Roschelle
@ROSCHELLE63

Immersive Journalism: #VR to transport, to bear witness, to walk in other’s shoes Peggy Weil @CIRCLCenter #nsfcl16 pic.twitter.com/KSEOny2ny3

Watch the Keynote

https://storify.com/CIRCLCenter/cyberlearning-2016.html
LEARNING

Peggy Weil, Immersive Journalism and Data Visualization for Civic Engagement

Chris Hoadley
@tophe

Peggy Weil: powerful VR experiences can create “shared social memory” #NSFCL16
Great projects in #ImmersiveJournalism by @peggyweil at #NSFCL16 pic.twitter.com/xTSNbkTbj8
Here’s a link to the video Peggy Weil mentioned about witnessing Use of Force. youtube.com/watch?v=KxYfJb... #NSFCL16

@DAPOSTROPHE · 2 YEARS AGO

Eni Mustafaraj
@enimust

Some projects of virtual reality by Peggy Weil are haunting and so powerful. The future of journalism? thecreatorsproject.vice.com/blog/is-virtua... #NSFCL16

@enimust · 2 YEARS AGO

Chris Hoadley
@tophe

stretching serious games into very very serious: a journalistic videogame about Gitmo from Peggy Weil and Nonny De La Pena #NSFCL16

@tophe · 2 YEARS AGO
After lunch, we had exchanges and working sessions

Doing some work in our working sessions. #NSFCL16 pic.twitter.com/TFT6kf5voD
Computational thinking working group brainstorm at #NSFCL16 + Resource curation here: bit.ly/CLCT2016 pic.twitter.com/8E1kKo7mju
Working Session on Innovative Collaborations. #NSFCL16 pic.twitter.com/yFQ3aUS5b5

EDGE AT TERC  @EDGE_AT_TERC  @EduIndie  2 YEARS AGO
Working Session on Inclusive (now Inspired) Design. #NSFCL16 pic.twitter.com/lW3Im4nL70
Collaborating on new ideas related to inclusive design challenges. #NSFCL16

instagram.com/p/BGSVDEbp7l8/

CYNTHIA D’ANGELO @DAPOSTROPHE · 2 YEARS AGO
Great talk about personalized learning at #NSFCL16. Here’s our creative poster illustrating our conversation. pic.twitter.com/nnKlLM33Q
How do we make log data useful for teachers? #NSFCL16 #workingsession @CIRCLCenter pic.twitter.com/bpb1JuUgL1
Janet Kolodner @ConcordDotOrg sharing working session on "Scaling up project-driven education that works" #NSFCL16 pic.twitter.com/XpnPfxp2nN

And on to a Gallery Walk to see some of the technologies, projects, and ideas from the community.
Loving the contrast betw VR of @labster VR (ted.com/talks/michael__) & paper mechatronics of @SherryHsi #NSFCL16 pic.twitter.com/OFCi0W6Qgi
@labster hanging out at the #NSFCL16 with #VR for #science education
pic.twitter.com/ZXv9foc4wK
It's poster session time for me and Nonye! #NSFCL16 pic.twitter.com/3imK6ZT7L3
We had "Buddies" come help us think from different perspectives. This Buddy is an undergraduate computer science student. We are so glad she and all our other Buddies could come. Buddies were teachers, disability specialists or advocates, museum leadership, principals, graduate students, and clinical faculty. (They also wore other hats, too.) They help us have better conversations because they help us think from different perspectives and about things they know about deeply that we need to understand.
I'm going to let #NSFCL16 finish, but I have the best CIRCL buddy of all time. @CIRCLCenter @joepolman pic.twitter.com/WG03tt8Tlr

Day 2: Monday June 6

Chad Dorsey
@chaddorsey

Bright-eyed and bushy-tailed second morning at #NSFCL16 Thanks to @CIRCLCenter and “the tribe” for a great day/night yesterday!
@andrewcoy @whitehouseostp shares #maker efforts #NSFCL16 #cyberlearning @NSF 2016 summit-Focus on solving problems pic.twitter.com/CrJlmgeW0i

AL BYERS @ALSBYERS @camsiemcadams · 2 YEARS AGO

Mary Patterson
@map10323

OSTP Andrew Coy says Kids- the President wants your ideas-whitehouse.gov/blog/2016/05/1.... #NSFCL16 @CIRCLCenter

christine forte
@celizabethforte

Greatest Show And Tell On Earth : National Maker Fair. whitehouse.gov/nation-of-make... #NSFCL16 #nationofmakers

2 YEARS AGO
School is not something that should happen to kids, but should happen with kids. - @andrewcoy #NSFCL16

@NSF_EngChief says increasing diversity of STEM workforce is priority: @NSF spends $700M on it. @NSF_ENG #NSFCL16 pic.twitter.com/3nZ2wEcpzP
Michael Rook @NSF shares $19M PIRE-Partnshps 4 Int'l Research & Ed #cyberlearning #NSFCL16 @krajcikjoe @OfficialNGSS pic.twitter.com/NnDtnMYmW
Really enjoyed our SAVI w/ Finland--FUN: A Finland-US Network for Engagement and STEM Learning in Games. #NSFCL16 pic.twitter.com/spMA0S0dQb

Our shark tank has researchers pitch to teachers; researchers have to think about how their projects work in and help schools.
Researchers pitch projects to shark tank #educators @NSF #cyberlearning #NSFCL16 see bit.ly/clshark @NSTA pic.twitter.com/jtvY2qg0lR
Sharktank #NSFCL16 What project has the most potential to influence schools w $1 million? #Edresearch #DBR pic.twitter.com/YhxDEe71IA

@WAINBRAVE · 2 YEARS AGO
Thank you Shark Tank judges, pitchers & @tophe @CIRCLCenter #NSFCL16 #cyberlearning pic.twitter.com/N8h711l2wF

Chris Hoadley @tophe

@kipglazer @erichamilton nice job making researchers accountable to teachers in a way that is safe and fun #NSFCL16

Katie Rich @ChiTownKatie

Love listening to a Shark Tank panel of practitioners give feedback to researchers about how they might use their projects. #NSFCL16
Chad Dorsey
@chaddorsey

Congratulations, @kristyelizabeth, on winning Shark Tank at #NSFCL16. A victory for the promise of speech technologies in Ed research!!

2 YEARS AGO

Keynotes with Jim Shelton and Linda Chaput

Jim Shelton @usedgov We will do anything 4 #teachers except pay them-give them tools 2 be successful #NSFCL16 @NSTA pic.twitter.com/YAdwbd0M2z

AL BYERS @ALSBYERS · @aabbott22 · 2 YEARS AGO

Watch the Keynote
Jim Shelton, Accelerating Innovation in Learning and Teaching: Creating and Leveraging the Policy Context

LEARNING - 2 YEARS AGO

Chad Dorsey
@chaddorsey

Jim Shelton: Education doesn’t know how to respond as a market to things that work better —> turns things on their edge. #NSFCL16

2 YEARS AGO

Tamara Clegg
@tlclegg

Jim Shelton asks how to we get better, more accurate assessments of learning that don’t kill people’s joy? #NSFCL16

@carolinethegeek - 2 YEARS AGO
We need to do a better job communicating what we know about learning @JIMSEDU #NSFCL16 #ChanZuckerbergInitiative pic.twitter.com/kIr7zIFagR

Nathan Holbert
@McLargeH

Ed market failure-when those deciding what to buy aren’t choosing things that work better via @JIMSEDU #NSFCL16

Karen King
@kdking97

The education sector does not have a clearly established innovation pipeline - @JIMSEDU #NSFCL16
Cyberlearning Center
@CIRCLCenter

In #Cyberlearning, we need to make sure people hear about LEARNING -- learning with technology can be transformational @JIMSEDU #NSFCL16

@CIRCLCenter @kdking97 · 2 YEARS AGO
"How can we use what we know about the malleable factors that enable people to persist in our work?" -Jim Shelton #NSFCL16 @CIRCLCenter

inspired by jim shelton: if an educational research study falls in the forest and nobody hears it, did we learn anything? #NSFCL16

Linda Chaput @agilemindinc putting teachers in the center of instructional leadership #NSFCL16 pic.twitter.com/xLJACn3hed

Watch the Keynote
Linda Chaput, Agile Mind: A Case Study of Technology-Mediated Educational Innovation at Scale

LEARNING · 2 YEARS AGO

Breanne Litts
@sunshineblitts

@agilemindinc aiming to build systems for teaching and learning not just digitize curricula. #NSFCL16

LEARNING · 2 YEARS AGO

Cyberlearning Center
@CIRCLCenter

Assessment items can open the space of learning & challenge learners are expensive but are worth it! Spend the $! #NSFCL16 @agilemindinc

LEARNING · 2 YEARS AGO
Teachers enact about 65% of the curriculum, but students are assessed as if they experienced 100%. -Linda Chaput @agilemindinc #NSFCL16

Chris Hoadley @tophe
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#NSFCL16 Linda chaput: teacher learning and teacher satisfaction should be core design criteria for any cyberlearning

Cyberlearning Center @CIRCLCenter
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@agilemindinc: When a teachers has 42 adolescent students, and has to teach something tough, they need support. #NSFCL16

Chris Hoadley @tophe

Linda chaput: fear of failure is a significant driver of what teachers DON’T cover #NSFCL16

CrystleM @CrystleM

Linda Chaput - For multidimensional problems we need multidimensional solutions #NSFCL16
Linda Chaput keynote lesson for me: focus on teachers and learners’ practice, concerns... not on shiny tools. That's the innovation #NSFCL16

More exchanges and working sessions.

Our expertise exchange is asking how to promote learners’ identity with Cyberlearning #NSFCL16 pic.twitter.com/t4HEI9xpQs
Existing analytic techniques for tracing animal behavior can be useful for tracing learning #NSFCL16 @leilahlyons pic.twitter.com/ZtaCL8gN1b
Great advice for publishing in journals #NSFCL16. Writing is a social process. Thank an editor, even if rejected. pic.twitter.com/OuFcAkQPe

MARY PATTERSON  @MAP10323  bpenuel  ·  2 YEARS AGO

William Finzer
@bfinzer

@CODAPdatasci #NSFCL16 Leading expertise exchange on why is data science important to education

@VicariousLee  ·  2 YEARS AGO
Panel of Cyberlearning experts providing feedback on proposal ideas emerging from #NSFCL16 in proposal pitch clinic pic.twitter.com/pl7I5ZA50K

@SHUCHIG - 2 YEARS AGO
Hatching new ideas about the convergence between cyberlearning research, citizen science & community action! #NSFCL16 pic.twitter.com/PaJELSZ6Ox
The conference closes with remarks from NSF Program Officer Chris Hoadley.
Chris Hoadley ”In 50 years we won't call it “Cyber”learning we’ll just call it ”Learning!” #NSFCL16 @CIRCLCenter pic.twitter.com/lbo2jh3xlW

@MARY_PATTERSON @MAP10323 @shuchig · 2 YEARS AGO

Cynthia D’Angelo @dapostrophe

.@tophe: for cyberlearning to continue forward, more learning scientists need to have a computer science buddy to collaborate with #NSFCL16

@draftcn4pres · 2 YEARS AGO
Thank you #NSFCL16! The connections, conversations, energy, & enthusiasm were amazing. Looking forward to next year! pic.twitter.com/qehM5f4ZfV

But wait, there's more. Poster sessions at NSF.
Finishing up #NSFCL16 here at @NSF in the Gallery Walk. @digitalyouth @npinkard @SheenaErete @caitlinkm pic.twitter.com/TUjI3wPpWs
Still at the amazing #NSFCL16. Now setting up for a gallery walk in the NSF atrium.

pic.twitter.com/Kk9aGyuL5J
Digital Youth Divas platform bit.ly/1O9Dt09 @caitlinkm @npinkard @SheenaErete @digitalyouth #STEM #NSFCL16 pic.twitter.com/y2MH0dMKer
@ the #NSF atrium in DC for the Cyberlearning program, ppl trying @labster VR edtech STEMed #nsfcl16 pic.twitter.com/8uiXc8cIbF
#NSFCL16 poster session @NSF Atrium. Enjoyed presenting our ongoing #cyberlearning project @SRI_Education @cmuhcii pic.twitter.com/B5TY5vaytg

SHUCHI GROVER @SHUCHIG 🤫 @CIRCLCenter · 2 YEARS AGO

And Congressional visits on June 7.

Ready for some Hill visits! #NSFCL16 pic.twitter.com/kE7rz5IY91

KATIE RICH @CHITOWNKATIE · 2 YEARS AGO
Sharing about our #nsfcl16 #cyberlearning community w Congress today @CIRCLCenter @tophe pic.twitter.com/nmr0tsoRXj

Jeremy Roschelle @ROSCHELLE63 @CIRCLCenter  ·  2 years ago

Dr April Marie Leach @AprilMarieLeach

@AprilMarieLeach #NSFCL16 congressional visit this morning - 2 enthusiastic staffers from Frederica Wilson & Lois Frankel

2 years ago

Next up: A chat with staffers of Illinois Representative Randy Hultgren. #NSFCL16 pic.twitter.com/nwuTtXsT2x

Katie Rich @CHITOWNKATIE  ·  2 years ago
Last stop: The offices of Senator Dick Durbin. #NSFCL16 pic.twitter.com/3BSZmhHNQ0

Inspiring convo w/Perre Smalls from @LacyClayMO1 about importance of youth STEM/data literacy #NSFCL16 @CIRCLCenter pic.twitter.com/hGJYAKCfQD