What is the Future of Learning?:
The Fourth Industrial Revolution Meets
the Fourth E-Learning Revolution

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Talk Overview
1. Education 20/20 and the Role of the Instructor
2. First and Last Principles of Instruction
3. 4 Industrial Ages; 4 E-Learning Ages
4. Artificial Intelligence vs. Intelligence Augmentation
5. Megatrends of Learning: Engagement, Access, and
Customization (30 ways that learning is changing...)
6. Future Trends and Ideas

(Circa Confucius 551–479 BCE)

What happens to sleeping students?

IF YOU DON'T STUDY

you shall not pass
20 New Roles of the Instructor

- Captain
- Counselor
- Conductor
- Consultant
- Cook
- Concierge
- Curator
- Course Ambassador
- Course Expedition Leader
- Collaborator
- Community Organizer
- Chemist
- Care Giver
- Coach
- Change Catalyst
- Consumer Advocate
- Cultivator
- Colleague

Bonk’s 20 "Last" Principles of Instruction

(LAST = Learning Activation System Template)

- Convenience
- Collegiality
- Spontaneity
- Support and Feedback
- Choice and Options
- Nontraditional Learning
- Passion and Inspiration
- Relevance and Meaningfulness
- Trial and Error (I.e., it is ok to fail)
- Expanded Resources
- Human Connectedness
- Cognitive Apprenticeship
- Flexibility
- High Expectations
- Purpose and Vision
- Empowerment and Autonomy

Merrill’s First Principles of Teaching/Instruction

Integration, Activation, Application, Demonstration

[Image of a man standing in front of a book titled "First Principles of Instruction"]
Poll #1: Do you remember the days before e-learning?

Fast Forward 30+ More Years...
“Anyone can now learn anything from anyone at any time.”

Just what is the Fourth Industrial Revolution?
Industry 4.0 (per Wikipedia)
https://en.wikipedia.org/wiki/Industry_4.0

Education 3.0...Education 20/20

“In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology." (Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0)
April 13, 2016
The Fourth Industrial Revolution
Klaus Schwab, Founder and Executive Chairman, World Economic Forum
(Ubiquitous, mobile supercomputing, artificially-intelligent robots, self-driving cars, neuro-technological brain enhancements, genetic editing, etc.)


January 14, 2016
The Fourth Industrial Revolution: What it means, how to respond
Klaus Schwab, Founder and Executive Chairman, World Economic Forum
https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/

The possibilities of billions of people connected by mobile devices, with unprecedented processing power, storage capacity, and access to knowledge, are unlimited. And these possibilities will be multiplied by emerging technology breakthroughs in fields such as artificial intelligence, robotics, the Internet of Things, autonomous vehicles, 3-D printing, nanotechnology, biotechnology, materials science, energy storage, and quantum computing.

April 30, 2017
'Those Jobs Are Gone',
Steve Kolowich, The Chronicle of Higher Education

March 22, 2016
Robots & Artificial Intelligence Will Kill 5 Million Jobs By 2020
Carol Adl, Artificially-intelligent robots
August 21, 2016
ST Future Economy Roundtable:
Is Asia ready for the Fourth Industrial Revolution?
The Straits Times
http://www.straitstimes.com/asia/is-asia-ready-for-the-fourth-industrial-revolution

“It’s quite clear that the established models of education have to change and adapt to the new environment.”

April 13, 2016
The Fourth Industrial Revolution:
What it means, how to respond
Klaus Schwab, Founder and Executive Chairman, World Economic Forum
http://www.tubechop.com/watch/8280981

August 17, 2016
Research: 3D Printing Market to Double by 2020
Joshua Bolkan, Campus Technology

June 7, 2016
Teaching refugees how to code
CNN Money

May 3, 2017
4 out of 5 Companies Have Hired a Coding Bootcamp Graduate
Sri Ravipati, Campus Technology
https://campustechnology.com/articles/2017/05/03/4-out-of-5-companies-have-hired-a-coding-bootcamp-graduate.aspx

June 20, 2016
Coursera on a Mission to Help Refugees
Lauren Camera, US News and World Report
February 9, 2017
More black and Latino students learn to code as Code.org classes swell
Jessica Guynn, USA Today
[https://www.usatoday.com/story/tech/news/2017/02/09/codeorg-reaches-black-latino-students/97671518/]

September 21, 2016
Udacity Unveils Nanodegree Program for Self-Driving Car Engineers
Sri Ravipati, Campus Technology

May 10, 2017
3 overlooked LinkedIn features to find a better paying job
Steven Petrow, USA Today
[https://www.usatoday.com/story/tech/columnist/stevenpetrow/2017/05/10/3-game-changing-linkedin-features/101032400/]

July 28, 2016
Knod
(Per Dr. Michael Mayrath: work with employers to diagnose skills gaps, then provide a platform to deliver content to build those skills in a learn by doing experiences, real projects with employers)
[http://www.knod.net/]

Poll #4:
Read any good books lately detailing this shift?

The Innovators:
Walter Isaacson (2014)
[http://books.simonandschuster.com/The-Innovators/Walter-Isaacson/9781476708690]
http://www.amazon.com/Machines-Loving-Grace-Common/dp/0062266683

Artificial Intelligence
John McCarthy, Stanford AI Lab

Intelligence Augmentation and Amplification
Douglas Engelbart’s “The Mother of All Inventions” (1968) Augmentation Research Center (ARC)

Knowledge Navigator (1987)
Apple Computer

August 6, 2016
The Web is 25!
Happy (sort of) birthday, World Wide Web!
Erica Fink and Jonathan Tortora, CNN Money (Tech)
http://info.cern.ch/ (First website)

January 15, 2016
Wikipedia is 15!
Scott McLemee, Inside Higher Ed
April 4, 2016
MIT OpenCourseWare is 15!
http://ocw.mit.edu/about/15-years/

The World is Open:
How Web Technology Is Revolutionizing Education

The Awareness Problem:
I. Elaine Allen and Jeff Seaman, Babson Survey Research Group

Thirty Ways Learning is Changing...
(i.e., it's more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

The Evolution of E-Learning (All 7 year cycles)

Phase I, 1994:
THE AGE OF PORTALS AND PAGES (NETSCAPE GOES PUBLIC).

Phase II, 2001:
THE AGE OF OPENNESS (MIT OCW & WIKIPEDIA BORN).

Phase III, 2008:
THE AGE OF MOOCs (FIRST MOOC OFFERED).

Phase IV, 2015:
THE AGE OF PERSONALIZATION.

Other prior significant e-learning dates:
1985: FIRST ONLINE COURSE, LINDA HARASM, U. OF TORONTO
1987: HYPERCARD FIRST SHIPPED.
Learning is More Social

Learning is More Digital and Resource Rich

Enticing Students to Read Again

May 31, 2017

Learning is More Immersive

February 27, 2017 (Engagement)

Learning is More Immersive

August and Virtual Reality Spending to Double in 2017, Sri Ravipati, THE Journal

Worldwide: "Forecasts the AR/VR market to reach $13.9 billion in 2017—up 130.5 percent from the $6.1 billion spent in 2016. Furthermore, AR/VR spending is expected to accelerate over the next several years, achieving a compound annual growth rate (CAGR) of 198 percent over the 2015-2020 forecast period and exceeding $64.9 billion in sales by 2020."

Ellen McCracken, The Chronicle of Higher Education

Digital Dubliners—a guide to Joyce’s stories written for students by students, will bring a new reading experience to today’s classroom.

http://www.chronicle.com/article/Enticing-Students-to-Read/144347

http://digitaldubliners.com/about/

February 7, 2017 (Engagement)

Learning is More Social

YouTube takes on Facebook with mobile live

Jefferson Graham, USA Today


March 27, 2017 (Engagement)

Learning is More Immersive

Augmented and Virtual Reality Spending to Double in 2017, Sri Ravipati, THE Journal

Worldwide: "Forecasts the AR/VR market to reach $13.9 billion in 2017—up 130.5 percent from the $6.1 billion spent in 2016. Furthermore, AR/VR spending is expected to accelerate over the next several years, achieving a compound annual growth rate (CAGR) of 198 percent over the 2015-2020 forecast period and exceeding $64.9 billion in sales by 2020."

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Digital Dubliners—a guide to Joyce’s stories written for students by students, will bring a new reading experience to today’s classroom.

http://www.chronicle.com/article/Enticing-Students-to-Read/144347

http://digitaldubliners.com/about/

February 7, 2017 (Engagement)

Learning is More Social

YouTube takes on Facebook with mobile live

Jefferson Graham, USA Today

June 10, 2015 (Engagement)
Learning is More Immersive
Augmented reality promises 'superpowers', and people are listening
The USA Today, Marco della Cava
Microsoft HoloLens: https://www.youtube.com/watch?v=aThCr0PsyuA
Letsee is an AR app from a South Korean company that allows consumers to scan a product and see a series of product reviews instantly overlaid overtop.

May 18, 2017
Learning is More Immersive
Google Expeditions Adds Augmented Reality for Classrooms, Sri Ravipati, THE Journal
https://thejournal.com/articles/2017/05/18/google-expeditions-adds-augmented-reality-for-classrooms.aspx
https://www.youtube.com/watch?v=SYqlaMWTVg
27 seconds http://curtbonk.com/thejournal27.html
38 Seconds http://curtbonk.com/thejournal38.html
1:10: http://curtbonk.com/thejournal.html

June 1, 2017
Learning is More Immersive
Major League Baseball to live-stream games in virtual reality
Edward C. Baig, USA Today

May 30, 2017
Learning is More Immersive
Fly above the water with Oracle Team USA in 360
https://youtu.be/9nZhz30QIZQ
The first 17 seconds: http://curtbonk.com/sailing-17.html
1:14 to 1:54: http://curtbonk.com/sailing-40.html
Whole video: http://curtbonk.com/sailing.html

May 7, 2015 (Engagement)
Learning is More Adventurous
Aaron Doering, Chasing Seals, TEDx
http://chasingseals.com/
https://twitter.com/chasingseals

July 22, 2016 (Engagement)
Learning is More Game-like
When Pokémon Goes to Campus: The Good, the Bad, and the Ugly
Gabriel Sandoval, Chronicle of Higher Education
http://chronicle.com/article/When-Pokémon-Goes-to-Campus-The-Good-the-Bad-and-the-Ugly/237219?cid=trend_au&elqTrackId=c60af7ea6da640ec98d260eb7af9ef66&elq=95ace8ab293b4a5ead1a353c0e6f0dfc&elqaid=9961&elqat=1&elqCampaignId=3667
Pokémon Go players converged last week on the U. of Nebraska at Lincoln’s Memorial Stadium, which officials had opened to the animated monster hunters. The hit augmented reality game has prompted many colleges to jump on the bandwagon.
June 1, 2017
Learning is More Game-like
Video games are 'the motherlode' of ideas for tech innovation: Mary Meeker, Brett Molina, USA Today

August 23, 2016 (Engagement)
Learning is More Collaborative
e.g., reef videoconferencing
(Great Barrier Reef, Australia)

February 15, 2017 (Engagement)
Learning is More Synchronous
Shindig, Future Trends Forum, Bryan Alexander
https://bryanalexander.org/the-future-trends-forum/
http://www.shindig.com/
http://events.shindig.com/event/FTF-anniversary

February 17, 2016 (Engagement)
Learning is More Mobile
World’s Cheapest Smartphone at $3.67
Samsung is hoping to have 10,000 apps by the time the Gear S3 launches this fall.

Want “FREE” engagement?
How about “Adding Some TEC-VARIETY”?
http://tec Variety.com/

How Learning is Changing:
Mega Trend #2. Pervasive Access
June 15, 2014

Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace (from Arizona State online programs)


May 10, 2017

50-year-old Bible college in Colorado Springs to sell campus, switch to online-only instruction, Debbie Kelley, The Gazette


November 22, 2016

Indiana University, Online Course Enrollments

https://cbi.bi.iu.edu/

May 2, 2017

'Volatile' but Growing Online Ed Market, Carl Straumsheim, Inside Higher Ed


April 27, 2017

Purdue Buys For-Profit Kaplan University for $1 to Create New Kind of Public University, Jeffrey R. Young, EdSurge

July 21, 2016

Facebook’s Aquila drone completes first test flight, Jessica Guynn, USA Today

An aerial view of Aquila, a autonomous aircraft Facebook is designing to deliver mobile broadband networks to isolated people (mission to fly 60,000 above Earth for up to 3 months at a time; current record for solar-powered unmanned flight is 2 weeks). (Photo: Facebook)
August 1, 2016 (Access)
Learning is More Ubiquitous
363 by Idea Group; Study Café
Meeting Place; Idea Space (Seoul, Korea)
http://363.co.kr/wp/?page_id=244
http://363.co.kr/wp/?bw_gallery=study-cafe_11

May 7, 2014 (Access)
Learning is More Global
CNA – Speaking Exchange (video chats)
https://www.youtube.com/watch?v=S5EfwpFOk

May 22, 2017 (Access)
Learning is More Informal
Digital citizenship lessons from a 9-year-old with 18,000 Twitter followers, Alan November, eSchool News
http://www.eschoolnews.com/2017/02/22/digital-citizenship-twitter/
http://www.eschoolnews.com/2017/02/22/digital-citizenship-twitter/?all
https://twitter.com/thelivbits?lang=en
https://www.youtube.com/watch?v=bXjwUE7eBuc

August 5, 2015 (Access)
Learning is More Informal
Shubham Jaglan (10 years old) Overwhelmed by “Dream” Return Home After Double World Championship

June 13, 2016 (Access)
Learning is More Free and Open
Nine-Year-Old Anvitha Vijay is the Youngest Developer at WWDC (age 9) (Apple Worldwide Developers Conference), Gadgets

May 4, 2016 (Access)
Learning is More Free and Open
This Mongolian Teenager Aced a MOOC (140,000 people take the MIT MOOC on Circuits and Electronics, 1 of 300 to get a perfect score)
The Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/This-Mongolian-Teenager-Aced-a-MOOC/236362
May 19, 2016 (Access)
Learning is More Free and Open
From MOOC to bootcamp to MIT
MIT News, Office of Digital Learning
(Jin Wu—from MITx to MIT Global Entrepreneurship Bootcamp to master’s student)

September 28, 2016 (Access)
Learning is More Free and Open
Bookshare, An accessibility online library for people with disabilities
https://www.bookshare.org/

April 6, 2017 (Access)
Learning is More Free and Open
Indiana University’s eText program saves students over $3.5 million (Program makes digital textbooks cost less and do more, grows 56 percent), Indiana University Newsroom
https://itnews.iu.edu/articles/2017/indiana-universities-etext-program-saves-students-over-3.5-million.php

March 27, 2017 (Access)
Learning is More Free and Open
Beyond Free: Harnessing the resonant value in open and collaborative practices for the public good
David Porter, CEO, eCampus Ontario, Open Education Ontario Summit
https://www.slideshare.net/David_Porter
https://www.ocls.ca/events/open-education-ontario-summit

March 27, 2017 (Access)
Learning is More Video-Based
What I Learned at the ASU GSV Summit
Kenneth Green, Inside Higher Ed
http://www.eschoolnews.com/asugsvsummit/

May 4, 2016 (Access)
Learning is More Video-Based
Survey: Video Usage in Ed Continues Ramp-up, Dian Schaffhauser, THE Journal
July 18, 2016 (Access)
Survey: Video Usage in Ed Continues Ramp-up, Dian Schaffhauser, THE Journal
May 14, 2016 (Access)
Learning is More Immediate...
Mastodon bones offer clues of earliest humans in North America, Faith Karimi, CNN
Abstract: http://advances.sciencemag.org/content/2/5/e1600375
Full Article: http://advances.sciencemag.org/content/2/5/e1600375.full
Supplemental materials (PDF): http://advances.sciencemag.org/content/suppl/2016/05/10/2.5.e1600375.DC1
PDF: http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375_SM.pdf

May 9, 2017 (Access)
Learning is More Immediate...
Meet Zuul, the new dinosaur species named after 'Ghostbusters' demon
Traci Watson, USA Today

June 7, 2017
Learning is More Immediate...
Oldest Fossils of Homo Sapiens Found in Morocco, Altering History of Our Species,

June 7, 2017
Learning is More Immediate...
Scientists Find 100 Million-Year-Old, Nearly Complete Baby Bird Trapped in Amber,
Ryan F. Mandelbaum, Gizmodo
http://gizmodo.com/scientists-find-100-million-year-old-nearly-complete-baby-bird-1795901335
June 20, 2016 (Access)
Learning is More Direct from Experts (e.g., The Expert Café)
http://expertscafe.com/

How Learning is Changing:
Mega Trend #3. Customization

May 12, 2017 (Customization)
Learning is More Modifiable
The Future of Collaboration Spaces Encompasses Video Interactive, Mobile, Julie Johnston, IU, Campus Technology

October 14, 2011
Learning is On Demand
Siri (co-founder Tom Gruber)
http://www.imore.com/siri

May 20, 2017
Why type when you can say it? Google Assistant shows up Siri and Alexa on the iPhone, Jefferson Graham, USA Today
ICYMI - your fingers are set for a rest, Talking Tech
http://www.imore.com/siri

May 9, 2016
Personal Digital Assistants (PDA)
Personal digital assistants are on the rise (and they want to talk) USA Today, Edward Baig (i.e., Google codename of “Chirp”), Elizabeth Weise, USA Today
June 7, 2017
Learning is On Demand
‘Alexa, are you turning my kid into a jerk?’, Josh Hafner, USA Today

May 9, 2017 (Customization)
Amazon Echo Show brings chatty Alexa to a two-way, video touchscreen
Edward C. Baig and Elizabeth Weise, USA Today
https://www.usatoday.com/story/tech/reviews/2017/05/09/amazon-echo-show-touchscreen-video-alexa/101448844/
44 Seconds: http://curtbonk.com/jetsons44.html

April 17, 2017
Facebook’s future will blend physical and digital worlds
Jessica Guynn, USA Today

January 20, 2016 (Customization)
Learning is More Blended
Universities tap growth of craft beer, offer classes, Chicago Tribune

March 23, 2017 (Customization)
Learning is More Personal
Arizona State U Launches Open, Adaptive Lessons on Space Exploration
Rhea Kelly, Campus Technology

February 16, 2017 (Customization)
Learning is More Communal
Building Global Community, Marc Zuckerberg, Facebook
May 20, 2016 (Customization)
Learning is More Massive
agMOOCs (India)
http://www.agmoocs.in/

April 20, 2015 (Customization)
Learning is More Massive
250 MOOCs and Counting: One Man’s Educational Journey, Chronicle of Higher Education
http://chronicle.com/article/250-MOOCs-Counting-One-Man/-229397/?cid=at
If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.

Jima Ngei: “I had this unrelenting fear that this miracle of free access might evaporate soon.”

December 25, 2016
By The Numbers: MOOCs in 2016
Dhawa Shah, Class Central

December 25, 2016
Class Central

June 15, 2017
MOOCs for Credit
Class Central

August 12, 2016 (Customization)
A Life of Happiness and Fulfillment
Indian School of Business, Rajagopal Raghanganth
https://www.class-central.com/mooc/a-life-of-happiness-and-fulfillment

August 30, 2016
Thousands sign up for free online wine course, John Elmes, Wine News

March 3, 2017 (Customization)
edX Expands MicroMasters Programs
With Data Science (“nanodegrees”)
Digital Leadership and More, Sri Ravipati, Campus Technology

MOOCs and Open Education
Around the World
http://routledge-ny.com/books/details/9781316078715/

July 1, 2015 (Customization)
Chapter 14: Creating a Temporary Spontaneous Mini-Ecosystem through a MOOC
Paul Kim and Charlie Chung, Stanford University
Figure 2. Twitter thread announcing the MOOC

June 14, 2016 (Customization)
Chapter 15: Learning About MOOCs by Talking to Students
Charles Severance, Univ. of Michigan
Anuar Lequerica, Class Central
August 24, 2016
K-MOOCs (and oMOOCs and hMOOCs)
Revolutionizing online education
Professor creates courses tailored to cultural differences
Korea JoongAng Daily, Bong-Moon Kim
http://www.kmooc.kr/

30+ Ways Learning is Changing:
Recapping the Three Mega Trends:
Engagement, Access, and Customization

May 4, 2017
Prepare For Future Learning
Dr. Marie Bountrogianni, Dean, The Chang School, Ryerson U,
Huffington Post
http://www.huffingtonpost.ca/dr-marie-bountrogianni/prepare-for-future-learni_b_16407756.html

January 30, 2017
1. Professor Einstein PDA’s
Professor Einstein, an educational Wi-Fi connected robot is on display
at the Hanson Robot display during the opening day of Consumer
Electronics Show 2017. (Photo: Robert Hanashiro, USA TODAY)
http://www.usatoday.com/story/tech/2017/01/30/robotic-barista-now-serving-really-fast/95888780/

February 27, 2017
2. World Knowledge
Refreshment Stations
http://www.thelivingmoon.com/43ancients/02files/Library_Alexandria.html
February 27, 2017
3. Robot Collaborators/Partners
http://www.thelivingmoon.com/43ancients/02files/Library_Alexandria.html

June 15, 2017
A New Class Of Robots Could Actually Help Identify Training And Employment Opportunities
Gordon Freedman, Forbes

Usual internal link:
http://trainingshare.com/usa2.html

New download link:
https://www.dropbox.com/s/hxcuwqgvaj20oiv/pepper-the-robot2.mp4?dl=0

March 14, 2016
Artificial Intelligence and Robots
Paul Basken, The Chronicle of Higher Education
http://chronicle.com/article/Behind-a-Computer-s-Surprise-Victory_Hints-of-Global-Economic-Upholding/235687?cid=at&utm_source=at&utm_medium=en&elqTrackId=b050021f79e64d299f78b827af837b4a&elq=9ab0ff65a0e940caa0943c7774346&elqaid=8231&elqat=1&elqCampaignId=2650
http://www.usatoday.com/story/tech/2016/03/13/robots-androids-geminoids-sxsw/81735092

June 14, 2017
Element AI, a platform for companies to build AI solutions, raises $102M,
Ingrid Lunden, TechCrunch
https://techcrunch.com/2017/06/14/element-ai-a-platform-for-companies-to-build-ai-solutions-raises-102m/

March 24, 2017
Artificial Intelligence Market in the US Education Sector 2017-2021
http://www.researchandmarkets.com/research/5lshzz/artificial
AI Market to Grow 47.5% Over Next Four Years
Richard Chang, Campus Technology

March 28, 2017
Elon Musk’s Neuralink wants to plug into your brain, Marco della Cava, USA Today (includes 34 second video)
June 3, 2016
4. Explosion of Virtual Reality
VR Lets Med Students Experience What It’s Like To Be 74
Elyse Wanshel, Huffington Post
http://ht.ly/bSpe300XEPJ

April 10, 2016
Virtual reality tested by NFL as tool to confront racism, sexism
Marco della Cava, USA Today

One VR diversity demo places the user in the body of an African-American woman as a white male avatar gets aggressive mere feet away. (In one Stanford VR demo, subjects are made to feel what it is like to be homeless, as in this scene where the user is transported into the body of a woman riding the bus with a few possessions.)

October 25, 2016
Osso VR Mixed Reality Promo
http://ossovr.com/
https://www.youtube.com/watch?v=yes_GEtIa6o

February 27, 2017
5. Web Conferencing
Global Learning Partner or PBL Team Selection Walls
http://www.thelivingmoon.com/43ancients/02files/Library_Alexandria.html

May 4, 2016
6. MOOCs Social Impact and Spirituality
MOOC 4.0: The Next Revolution in Learning & Leadership, Otto Scharmer, Huffington Post

7. Rise of Super E-Mentors

[Image descriptions for each section are included in the text above.]
8. Café Classroom and Café Connectedness

9. Instructional Designer Morphs into Learning Environment Engineer

10. The Age of Personalization

The Future of Learning Plague
The new “Four Horsemen” of the Apocalypse:
Quality, Copyright, Plagiarism, and Assessment...

Poll #5:
Who is now interested in Education 20/20...?

We are entering a jumping off point...
(South University of Science and Technology of China, Wednesday June 10, 2015)
Things are heating up for PBL!

Education 20/20 is coming within reach!

Remember for Education 20/20 to make an impact:
“"I cannot do this alone.""
""I cannot do this alone."
""I cannot do this alone."

Any Questions or Comments?

Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Email: curt@worldisopen.com