

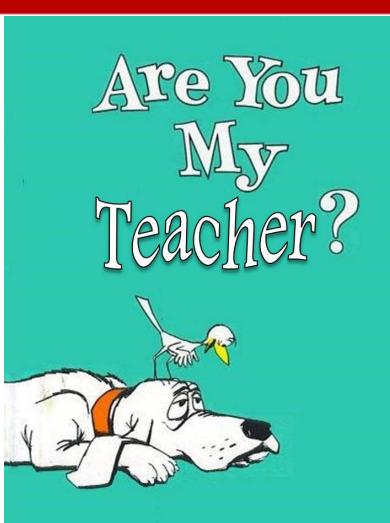
THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

NACTA 2017 Blue Ribbon Presentation Are You My Teacher? Jeffory A. Hattey

Professor of Soil Science & Assistant Dean





- Everyone seeks a teacher/mentor/coach at different stages of life.
- Am I prepared to deliver what they are seeking and need?

by P.D. Eastman

Student Expectations of a Teacher?

- Competent-Knowledgeable
- Challenge-Motivate
- Care-Fair





Are You My Teacher



Are You Ready to be Her/His Teacher?

- Can you remember when students were unsure if you were a graduate student or a faculty member?
- Have you encountered the student who looked at you in disbelief that someone that old is their teacher?
- In both cases, the student wants to know, is it possible you are my teacher.
 - You don't have enough life experience
 - You don't have enough experience about my life



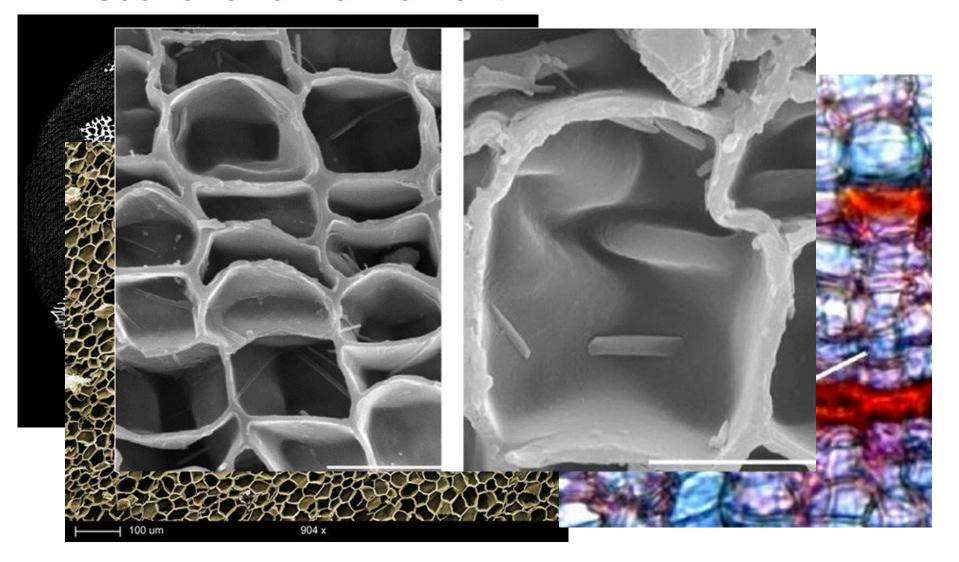
What are the Imbedded Questions and Observations

- It is not can you use the internet but are you staying current with the technology.
- How do I adapt to innovation and technology changes?
- Are you wasting my time?
- If you are not willing to stay current how can I trust you?
- Technology changes fast.



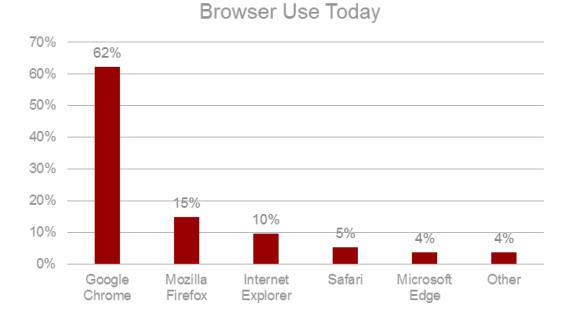


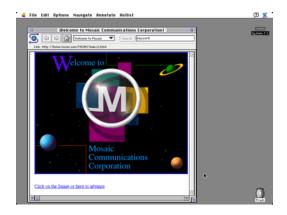
Discover and Refinement



When I began teaching 1995

- WWW: Tim Berners-Lee (1989)
- First web browser (1990)
- Netscape (1994)
- Microsoft Internet Explorer (1995)







Innovation in My Career?

PowerPoint was officially launched on May 22, 1990





What Will Happen to All the Tractor Drivers?





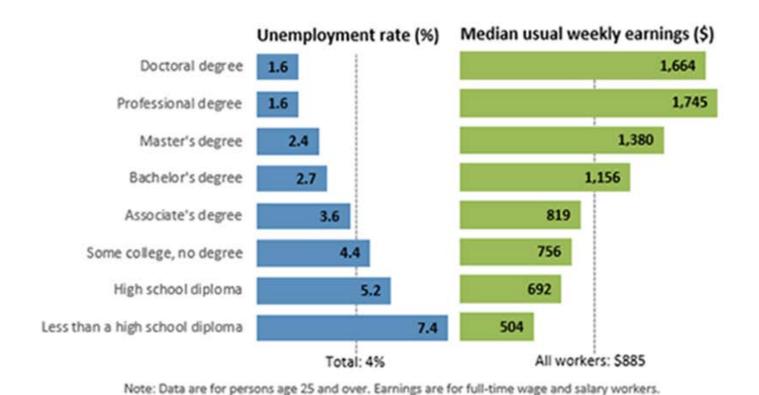






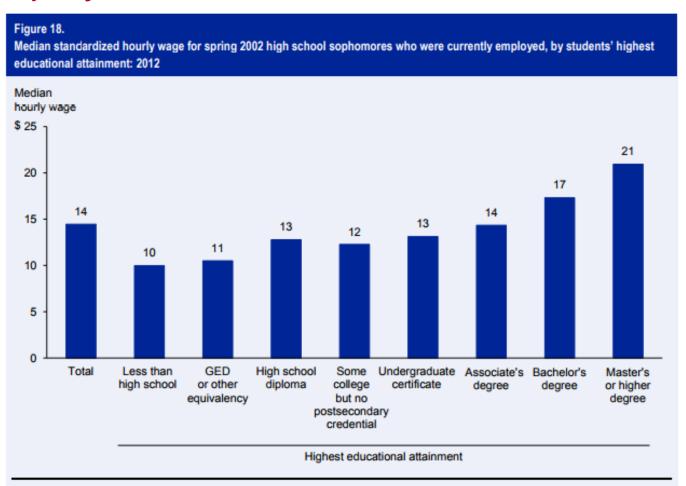
Unemployment and Educational Attainment





Source: U.S. Bureau of Labor Statistics, Current Population Survey.

Unemployment and Educational Attainment



NOTE: Earnings that were reported in a format other than dollars per hour (e.g., dollars per week) were standardized to dollars per hour. Estimates and standard errors are available in tables C-16a and C-16b.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002/12).

Embrace Innovations in Education

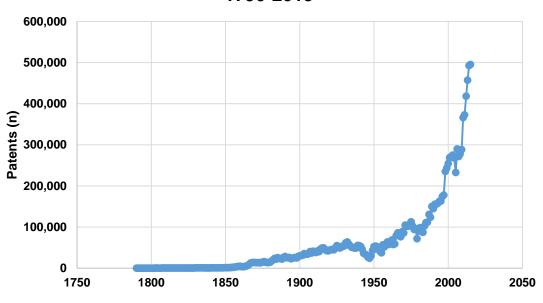
"Technology is a gift of God. After the gift of life it is perhaps the greatest of God's gifts. It is the mother of civilizations, of arts and of sciences."

- Freeman Dyson



Johannes Gutenberg c. 1440

Total U.S. Patents Granted 1790-2015



Measure of Innovation

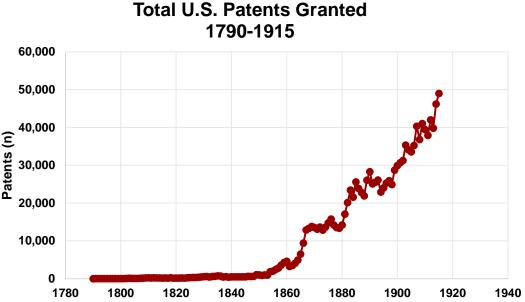
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Measure of Innovation



Is this Your Classroom of the Future?

Harvard Business School

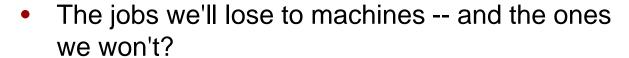


Are you Preparing for Your Classroom of 2027?

- What am I doing to stay competent in my craft?
- Who will attend?
- Where will you meet?
- When will you meet?
- What is the most effective learning environment?
- Will you let the student help design their learning environment?
- How much artificial intelligence will you use?

Are You Using Artificial Intelligence Today?

- "Don't fear super intelligent AI use it to enhance the human experience"
 - Grady Booch
- If your teaching activities rely on being the source of information then you will be replaced by Siri!



- » Machines: frequent, high volume tasks
- » People: creative, novel and complex
 - Anthony Goldbloom
- Do what we enjoy and are best suited for as teachers!



Student Expectations of a Teacher?

Competent

- » Current in subject (What)
- » Bring a sense of order to what might appear as chaos (Explain What)
- » Illustrate relevance to the life/career of the student (So What)
- Explore the current disciplinary boundaries (What is Next)
 - Jonathan Shaver



What is in your toolbox?

- Am I preparing this student for a lifetime of learning?
- A U.S. student born in 2007 will on average live to the year 2085.



What is Her/His Future?

- Will my students be able to grow potatoes on Mars?
- Will they keep chickens alive on the Moon?
- Will they understand the nutritional requirements to live in low/zero gravity?



Student Expectations of a Teacher?

- Competent
- Challenge
- Care



People Build People

- Machines don't build people, people build machines
- Building human capacity is key for the future
- As educators, we are in the business of developing people
- We should be ecstatic that we can focus on students and not technology
- Colleges like ours are really good at this
- This takes time and energy but offers the greatest reward!!!!

Challenge

- Expect students to stretch themselves.
- Encourage them to question why.
- Instill a desire beyond compulsory reasons to engage in the learning experience.

There are No Shortcuts

- Good literature cannot be summarized in a statement:
 - A Tale of Two Cities: Love your neighbor
 - Les Misérables: Help the unfortunate
 - David Copperfield: Child abuse is wrong
 - Crime and Punishment: Do not kill old ladies, even really mean ones
 - Moby Dick: Obsessions can be dangerous

There are No Shortcuts

- Create a desire in your students to know why the book is worth reading.
- "There's no shortcut. One needs not just to analyze "the text" but to experience the work."
- "No one experiences the world in quite the same way as anyone else"

"Cents and Sensibility: What Economics Can Learn From the Humanities" Gary Saul Morson and Morton Schapiro, June 13, 2017 Inside Higher Ed

Challenge Students to Stretch for New Goals

- Encourage them to take ownership of their education
- Show how they can achieve desired goals
- Model my willingness to broaden my horizons



Student Expectations of a Teacher?

- Competent
- Challenge
- Care



Do I Know My Students?

- As an educator:
 - » Do I know their name?
 - » Am I aware of how they contextualize learning?
- As a communicator, do I know my audience?
 - » GenZ, iGen

What Defines Gen Z or iGen?

- Beginning approximately 1996
- Don't remember 9/11
- 23 million strong
- Cloud natives, have always had a smart phone
- Have always had a social presence:
 - » Relationships
 - » Virtual reality training
 - » Problem solving

What Defines Gen Z or iGen?

- Highly educated: on YouTube and Pinterest
- Apps of choice Snapchat, Vine, and Instagram
- They want to know in real time
- Priority on finding right information fast <u>NOT</u> knowing the right information fast
- Most are still adolescents, they will be our students for the next 15 years!

Student Expectations of a Teacher?

Care

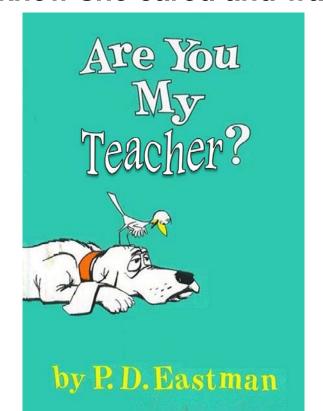
- » Am willing to try and understand their difficulties, their hesitations, and their complexes.
- » Do I encourage them and build them up?
- » Have I created and communicated an atmosphere such they know the course evaluation is fair?

Student Expectations of a Teacher?

- Competent-Knowledgeable
 - » It is no longer about WHAT
 - » Invest your efforts on SO WHAT and WHAT NEXT
- Challenge-Motivate
 - » Put grand challenges in front of me!
- Care-Fair
 - » Let them know you care and will be fair!
- These expectations have not changed, with time.
- The teacher-student interaction is timeless
- FOCUS on Your Student!!

Who Was Your Teacher

- She was competent
- She challenged me
- I knew she cared and was fair





Mrs. Myra Hiles

1st Grade Teacher

Acknowledgments

- Educational Issues and Teaching Improvement Committee
 - Brian Pearson
- Kevin Donnelly
- Susan
- Thank you