What is Their World?

Did You Know/Shift Happens (version 6.0, 2012)
www.youtube.com/watch?v=XVQ1ULfQawk

Iowa Did You Know
http://www.youtube.com/watch?v=dMsNct4X_GU

What is Their World?

Facebook Users

Launched in 2004
2012 figure is as of May 2013
What is Their World?

- If Facebook were a country it would be the third largest in the world behind India and China!
What is Their World?

- Number of years it took to reach a market audience of 50 million

<table>
<thead>
<tr>
<th>Product</th>
<th>Years to 50 Million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio</td>
<td>38</td>
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<tr>
<td>TV</td>
<td>13</td>
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<tr>
<td>Internet</td>
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<tr>
<td>I-Pod</td>
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<tr>
<td>Facebook</td>
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<td>Google</td>
<td>1</td>
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<tr>
<td>Phone Apps</td>
<td>??</td>
</tr>
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</table>
Mobile now accounts for 12 percent of Americans’ media consumption time, triple its share in 2009. (Source: Digiday, 2013)
What is Their World?

- 92% of American children have an on-line presence by the time they are 2 years old
What is Their World?

- Computing capacity that used to fit in a building
  - Now fits in your pocket
  - And in the future will fit in a blood cell
What is Their World?

In Some Fields:

- We are preparing students for jobs and challenges that don’t yet exist
  - Using technologies that haven’t been invented yet
    - In order to solve problems we don’t even know are problems yet
What is Their World?

Exponential Change
What is Their World?

- **YET**
  - Over 2 billion children live in poverty conditions!
  - 1 in 3 children never complete the 5th grade!
  - Political, cultural, social, and economic challenges around the world
How do we prepare them for their world?

“Take Them To The Crash Site”

Where they can practice their education and serve their community
To build students’ preparation for both work and citizenship, higher education needs to:

- **give new emphasis to fostering practical judgment and problem solving “in the field.”**

- **Community-based learning** should be integrated into the curriculum.
High Impact Practices

• “an investment of time and energy over an extended period that has unusually positive effects on student engagement in educationally purposeful behavior.”

High Impact Practices

- Education has to be more than transfer of information
- Education must instill in each student the capacity to:
  - Think, integrate, contextualize, create, assess, test
  - Embrace the unknown and pursue creative solutions
  - Experience risk
  - Experience and accept failure as a necessary step to success
  - Live a personal, work, and civic life of boundary-less behavior
  - Gain confidence from accomplishment and say …..

- “I not only can – I DID”
Experience
Grow
Make a Difference

PACCE
(Pioneer Academic Center for Community Engagement)
PACCE

Center for leading and supporting Scholarship of Engagement and Entrepreneurship Education

Entrepreneurship

Scholarship of Engagement
Experiential and Service Learning
What is Scholalrship of Engagement

2. What is the Center called PACCE
   - What does the center do
   - How does it operate
Scholarship of Engagement

- A scholarly agenda that is an intentional collaborative interaction between campus and external audiences in goal-setting, selecting and applying means and methods, and reflecting on and disseminating results.

- (National Review Board for Scholarship of Engagement)
Scholarship of Engagement

Start with the Traditional Dimensions of Scholarship

- Discovery
- Integration
- Application
- Teaching

Add an intentional, interactive and reciprocal relationship with a community partner in:

1. Setting goals
2. Selecting methods
3. Applying methods
4. Getting results
5. Assessing results
6. Dissemination of results

And You Get:

Scholarship of Engagement
Scholarship of Engagement In Practice

Service Learning
Experiential Learning
Cooperative Learning
Free Choice Learning

Civic Engagement
Experiential Education
Action Learning
Adventure Learning

Scholarship of Engagement
Experiential Learning

- The process of making meaning from direct experience

- Learning through reflection on doing

Service Learning is Experiential Learning that in addition integrates

- meaningful community service with instruction
- reflection to enrich the learning experience,
- purposeful teaching of civic responsibility, and
- strengthens communities.

(Adapted from The National Service-Learning Clearinghouse, http://www.servicelearning.org/what-service-learning)
Role of PACCE

- It’s a center for leading and supporting Scholarship of Engagement:
  - Campus-wide coordination, planning and implementation of Scholarship of Engagement
  - Financial support for engagement projects
  - Portal between community and university
  - Faculty Development
  - Project development, management and assessment services
PACCE Programs and Events

- Programs:
  - Pioneer Engagement Scholars (grant program)
  - PACCE Internship
  - Entrepreneurship

- Events
  - PACCE Poster Day
  - Faculty workshops
  - Entrepreneurship events and competitions
Pioneer Engagement Scholars Program

- Grant program that offsets the costs students incur in a community-based engagement project:
  - $500 per student, $600 for International Engagements
    - $315,000 per year available from differential tuition
Pioneer Engagement Scholars Program Criteria

- **Must be a part of academic credit:**
  - Grade and Assessable Student Learning Outcomes
  - In-depth and broad student reflection
  - Dissemination of project results

- **Must have three partners**
  - student(s), faculty, & community

- **Significant Community Partner Interaction & Reciprocity:**
  - Community partner is fully integrated in project planning, implementation, dissemination, and evaluation.
  - It is a reciprocal relationship where all partners value project goals and benefit from a successful outcome
Community Partners?

- Local
- Regional
- State
- National
- International
- On-line
- Existing business
- New ventures
- Non-profits
- Social organizations
- Civic
- Community governance
- Education
- Large, small, individual

And anybody else “out there” that can provide the means for students to meet learning objectives.
PACCE Internship Reimbursement Program

- Provides reimbursement to employers who do not have the financial capacity to pay for a college intern.
- The employer hires and pays the intern a salary and PACCE reimburses the employer.
  - Employers certify that they do not have the financial capacity to offer a paid internship
  - Student must be enrolled in an internship program for academic credit
PACCE Lives and is Motivated by Two Mottos
One:

“Take Students To The Crash Site”

Where they can practice their education and serve their community
Two: Each Partner Will:

Experience

Grow

Make a Difference.
Students:

- Experience the application and practice of their education
- Grow their skills, confidence, and community responsibility
- Make a Difference through empowered accomplishment
  - *I not only can – I did*
Faculty:

- **Experience** increased student interest in and excitement for learning
- **Grow** their capacity for teaching and scholarship through their connections and work in the community
- **Make a Difference** through serving their community and through professional scholarly achievement
Community Partners:

- Experience a positive and productive relationship with the university
- Grow their capacity to address their organizational challenges
- Make a Difference by better preparing tomorrow’s citizens and accomplishing goals for their organization.
Behind Every PACCE Experience is a Great Story
Eye Tracking Device
ME 3730 Mechanical System Design
Jake Schoeny, Steve Schreurs, Nate Silver, Adam Weidner, Brennan Zenner, and Sean Zimmerman

Need Statement: A device that encourages students to use their eyes to track an object.

Design Process: The solution was selected from three different alternatives using a decision matrix. The alternatives were designed after meeting the community sponsors at the University and Platteville Middle School. Background research was also performed. All three were modeled in 3-D using Solidworks.

Final Design: PVC was the material for the frame. PVC is a good choice, it is safe and repairable. An electric motor rotate an object across the range. Many electric motors focus the user's attention on visual abilities.

Objective: The eye tracking device will assist students ranging in age from pre-kindergarten to high school to help develop better optical motor skills through visual exercises. An object will rotate both clockwise and counterclockwise around a circular path at variable speeds for the student to track.

Special Thanks: Laurie Geyer, Ann Terrill, Dr. Daryl Logan, PACCE, Mechanical Engineering Department, and the Platteville Middle School staff.
HABITAT FOR HUMANITY
Solar Thermal System Maintenance Diagram and Home Energy Audit

ENERGY 4920 – Research or Design Project on Renewables
By: Chris Kanne, Erin Guenther, Isaac Dolan and James Shannon

Established in 2001
Primarily uses volunteer labor for house construction
Approximately six homes constructed with more in planning
Some of the homes contain renewable energy applications to help lower monthly utility expenses.

Project Plan and Goals
To develop a user-friendly diagram explaining their solar thermal system and what elements they need to be aware of.
Collect energy measurements from the homes to develop a list of recommendations to lower monthly energy usage.
To educate the homeowners on maintaining their solar thermal system and managing energy usage.

PACE Grant Use
To pay for 4 Watts Up Pro Meters and to cover travel expenses to the Habitat for Humanity homes.

Community Partners
Todd Tinnerman – Tinnerman’s Talents, LLC
Charles Voight – Habitat for Humanity
Dr. David Knauss – UCD-Platteville faculty

Habitat for Humanity
Granite County

Usage and Results
Currently in progress of collecting energy measurements and refining the solar thermal diagram.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Watts Up Pro Meters</th>
<th>Watts Up Pro Meters Cost</th>
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<tbody>
<tr>
<td>DCC Alarm Clock</td>
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<td>DCC Door Bell</td>
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</tbody>
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Costa Rica
June 18th - 30th 2010

This experience has changed how I view the world. I am so glad that I choose to go to Costa Rica. This trip was beneficial for my education because I was able to be immersed into a new and different culture. I grew professionally and personally.

My first time on a plane!

Bilingual School

Arenal Volcano

Monteverde Coffee Plantation

Cloud Forest Reserve

Zip Lining

UW-Platteville Group

Manuel Antonio

UW-Platteville Study Abroad

3000-Costa Rica

Sue Alborn-Yilek & Linda Dosen
Names of Our Games

Magic Quest - Don Riess, Tyler Degrandis, Johnny Delapique
Hero Toss - Jeremy Walkerhorst, Brad Kraemer, Aaron Westerkamp
High Noon Hero - David Bunkler, Jacob Thorsen, Matt Toman
Hero Land - Mike La Langmeier, Courtenay Sampson, Kyla Koltermann, Nate Brey
Super Spell Dough - Rachel Shiff, Katie Wiedenholt, Nicole Kloepfer, Courtney Woodward
Hero Stomp - Brandon Wervey, Nick Samson, Ryan Quick, Nate Kanle

What We Learned

- How important teamwork is in collaborating on projects where two different people work together and have fun.
- How each child is unique in their mental skill level.
- How to effectively vary the writing process.
- Always be ready to adapt in new situations.
- Helps children with spelling.
- Improves communication skills.
- How different children react.
- Demands creative and critical thinking.
- Audience awareness.

Game Names:
- Super Bowling
- Super Master Blaster
- Hero Hoops
- Trivia Hero
- Reading Man Book Blaster
- Super Hero Training Course
Innovative Throwing Device

Project Description:
An innovative throwing device for a school-aged child with cerebral palsy.

Goals:
- Must throw a ball over 15 ft
- Must be safe to operate
- Must be capable of use by people with varying abilities
- Must be portable
- Must throw at least 15 balls per class

Alternate Solutions:
- Air Cannon behaviors characteristics:
  - Low air pressure
  - Simple
  - Fast
  - More air usage-bigger tank needed

Final Design Model:
- Wheelchair-mounted
- Adjustable angle
- Fully enclosed

Our client: Devin Adams

UW-Platteville Faculty: Cindy Metcalf at Cuba City. Parents of Devin

www.uwplatt.edu
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