Supercourse

PPT and NIOSH

Follow this presentation at
http://www.pitt.edu/~super1/lecture/lec46641/index.htm
NIOSH PPT Program
Vision and Mission

The VISION is to be the leading provider of quality, relevant, and timely PPT research, training, and evaluation.

The MISSION of the PPT program is to prevent work-related injury, illness and death by advancing the state of knowledge and application of personal protective technologies (PPT).

An estimated 20 million workers use PPE on a regular basis to protect themselves from job hazards.
NPPTL and Personal Protective Technology Program Update

IOM COPPE Meeting

NPPTL In person
Maryann D’Alessandro
Roland Berry Ann

NPPTL Via envision
Ed Fries, NPPTL SCSST
Bill Newcomb, NPPTL PSD
Debbie Novak, NPPTL SCSST
Ray Roberge, NPPTL TRB
Ron Shaffer, NPPTL TRB
Angie Shepherd, NPPTL TRB
Jon Szalajda, NPPTL PSD

December 1-2, 2011
Dissemination

- Presentations
  - NFPA Technical Committee throughout the project
  - IAFF Redmond Symposium
  - TSWG PPE Conference
  - NPPTL Stakeholders Meeting
- Participation at Trade Shows
- Public Proposals and Public Comments within the NFPA revision process
- R2P Handout
- Featured in NIOSH Science Blog
- Project Final Report available

Supercourse
WHO Collaborating Center

JANICE DORMAN, PH.D.
DIRECTOR
MOLECULAR EPIDEMIOLOGY

RONALD LAPORTE, PH.D.
DIRECTOR
DISEASE MONITORING AND TELECOMMUNICATIONS
Aids, Global Warming, H1N1, Wild Fires, Terrorism

Is the world becoming Healthier?
What do we need to improve global health?

Effective
Cheap
Ubiquitous
Acceptable
Sustainable
Internet Enhanced Prevention Education
Internet Enhanced PPT Education
GLOCAL Health (Global to Local)
Every employer and worker should know about PPT
Tipping Point: 1
Global Health, Tipping point = 1949

<1949
Time Frame
5,000,000 years
Gain in Life Expectancy
20 years
1 year gain in life expectancy took
25,000 years

>1949
Time Frame
60 years
Gain in Life Expectancy
25 years
1 year gain in life expectancy took
2.4 years

Obama
2012
1949 Global Tipping point

Rate of Life expectancy increase since 1949 is 10,400 times faster than before 1949

Is the world healthier now?
Tipping Point: 2

Internet
Tipping Point: 3
What is the most important educational Technology of the 21st century?

Feel the Power of PowerPoint

On the web
Empowering Educators worldwide with state of the art lecture content to give our students the our best
But how do I get better lectures?

Why don’t scientists share our most exciting PowerPoint lectures for free?
Supercourse Model

Large Multidisciplinary Network

Open Source

PowerPoint Lecture Library

Continuous Quality Improvement

Distribution System to Educators
• Connect Everyone in Global Health
• Teacher Resource
• Global Training
• Library of Lectures
• Mirroring
Questions the PPT Program would like the IOM COPPE to consider

1. How could we best achieve educational outreach to wearers?

2. How could we best achieve collaborative endeavors with laser mask manufacturers to relay accurate marketing information?

3. How can we best partner with healthcare regulatory and accrediting agencies to update surveyors’ knowledge of the issue and recommended practices?

4. For ambulatory surgical settings, outside of the hospital setting, how could we best achieve educational outreach of recommended practices for smoke plume, laser surgery & electrosurgery?
Who will template lectures help?

- Experienced teachers
- New Educators
Global Health Network

65,000 Faculty
9500 Universities
174 Countries
## Comparing Supercourse, WHO and CDC

<table>
<thead>
<tr>
<th>Countries</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supercourse</td>
<td>174</td>
</tr>
<tr>
<td>WHO</td>
<td>192</td>
</tr>
<tr>
<td>CDC</td>
<td>43</td>
</tr>
</tbody>
</table>
Growth of Faculty: Tipping Point
Supercourse Mirror Sites

86 Mirror Sites,
MOH Egypt, Sudan, China, Mongolia, Russia
140 Chinese Medical Students
FSU Supercourse - 2008

- All 15 Former Soviet Union Countries
- More than 250 lectures in Russian language
- 600 active members of the network
- Russian language web site — www.supercourse.pochta.ru
Tipping Point: 3
Legacy lectures given to the Supercourse by Nobel Prize Laureates

Baruch S. Blumberg - Australia Antigen and the Biology of Hepatitis B in Chinese

Leland H. Hartwell - Yeast and cancer

Eric R. Kandel - Molecular Biology of Memory: A Dialogue Between Genes and Synapses

Klaus von Klitzing - 25 Years Quantum Hall Effect. Part I Part II

Joshua Lederberg - Microbial Threats to Health in the United States: Natural and Manmade

Ferid Murad - Biological Effects of Nitric Oxide and its Role in Cell Signaling

Paul Nurse - The Great Ideas Of Biology Cell Cycle Control

Douglas Osheroff - How Advances in Science Are Made. Part I Part II

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December 1-2, 2011
Disaster Supercourse
H1N1 lecture

- Lecture in 24 hours
- Translated in 3 days to 11 languages include Arabic, Farsi and Hebrew
- Reached 50 million
- Became trusted source
- Leading H1N1 lecture on web
Lectures in 10 hrs, Translated Into Japanese and 11 other languages

Earthquake, Tsunami, Nuclear lectures
First Scientific lecture on disaster
Leading Japan Disaster lecture

3/21/2012
Wildland Firefighter Respirator Standard
Recent Successes

IOM COPPE Meeting
November 10, 2009
Top 11 Medical Pages Lancet

75 million hits/year
125 publications

Best of the Web
Science Mag.
Top 100
PC Magazine
Mobile Global Health
Numbers of People (billions) and Numbers of Cell Phones

Tipping Point
6.7 B People = 6.7 B Cells
• There are 1.5 cell phones for every European
• There is one cell phone for every 2.4 people in Africa
• There are more cell phones then toothbrushes
Reaching the unreached
Reaching the unreached: Disabled
MODEL SELECTIVE TELEPHONES ON DRESS PARADE.
Mobile Global Health

Supercourse

Mobile-Global Health

Billions of people worldwide to improve Global health and prevention using Mobile technology, and education
Mobile Global Health

Global Health
Global Health Network Supercourse Project, University of Pittsburgh

"An ounce of prevention is worth a pound of cure"
Henry De Bracton, 1240

With this famous saying we started our Golden lecture of Prevention in 2003. This 2007 followup lecture is dedicated to Global Health, a theme very close to the theme of prevention.

This lecture was coordinated through the Global Health Network Supercourse Project, housed at the Department of Epidemiology, University of Pittsburgh.

Lecture developed by Faina Linkov, with the Help of Eugene Shubnikov and Ronald LaPorte.

Millions of people—most of them children—die each...
Mobile Global Health and PPT

Personal Environmental Monitoring through Cells

http://www.pitt.edu/~super1/globalhealth/appsMobilePhones.htm#Apps_for_MobilePhones_in_Environmental_Metrics
Project Evaluation

- Increase in Number of Certified Products
  - New designs and technologies
  - Broader range of products
  - Additional manufacturers

- Greater User Acceptance
  - Specification and purchase of 1999 Certified clothing
  - Use of federal and state grant money
Giving employees and workers our best knowledge
Ali Ardaldin                     Iran
Sunita Dodani                    US/Pakistan
Jesse Hung                      China
Ronald LaPorte                   US
Mita Lovalekar                   US/India
Faina Linkov                     US/Ukraine
Eric Marler                      US
Nicholas Padilla                 Mexico
Kawkab Shishani                  Jordan
Francois Sauer                   US
Eugene Shubnikov                 Russia
Education is the most powerful weapon which you can use to change the world.

Nelson Mandela

Prevention education is the most powerful weapon which you can use to change the Health of the world.

Supercourse team
Quality Partnerships Enhance Worker Safety & Health

Visit Us at: http://www.cdc.gov/niosh/npptl/

Disclaimer:

The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.

Thank you
Thank You

www.pitt.edu/~super1/

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3/21/2012