SEL and STEM: BUILDING EMPATHY TO SOLVE WORLD PROBLEMS
ENGAGING WITH COMMUNITIES TO BUILD HEALTHY RELATIONSHIPS.
OUR MONTHLY WEBINAR SERIES

Thought leaders in education sharing topics to inspire the best teaching and support social emotional learning.

Opinions and content in this presentation are that of the featured guest speaker and may not necessarily be a direct representation of Sanford Harmony or Sanford Inspire.

You will receive a recorded version after the webinar and you can watch at any time.
TODAY’S GUEST SPEAKER

MICHAEL SOSKIL

TEACHER, AUTHOR, SPEAKER,

2016 GLOBAL TEACHER TOP FINALIST
Why do we Teach?
Why is Social-Emotional Learning critical?
How does STEM help?
How do I get started?

@msoskil
How I Found My ‘Why’
PROJECT LINC

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Shared Humanity

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Gert Biesta: Purpose of Education in a Democracy

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Survey
(Maybe launch this earlier – during intros?)

Do you feel as if teachers in your school/district are prepared to meet students’ Social-Emotional needs?

Has your school provided training on SEL?

Have you received training on how to meet the needs of children who have experienced trauma?
Social-Emotional Learning (SEL)
Have you received training to properly meet the needs of students who have experienced trauma?

- Yes: 16.1%
- Not Sure: 9.7%
- No: 74.2%

Survey of PTAC members conducted between December 2018 and January 2019
Some SEL Factors - COVID-19

Students and Teachers
- Lack of peer interaction
- Change in routine
- Worry about sick family members
- Economic stressors

Students
- Home may not be the safest place
- Change in motivation
- Purpose and self-understanding

Teachers
- Work/home balance
- Additional workload
- Worry about students
MEGATRENDS THAT WILL IMPACT THE FUTURE

- Technological Change
- Globalization
- Demographic Change
- Environmental Sustainability
- Urbanization
- Increasing Inequality
- Political Uncertainty

SOURCE: PEARSON/NESTA
What character trait correlates most closely with success?

Empathy
"thoughtful educators reflect on how best to combine the powerful potential of the new technologies with the valuable, indeed irreplaceable qualities of excellent human teachers."

-Dr. Howard Gardner, Harvard Graduate School of Education

"a compelling portrait of how we should approach education"

-Right Honourable Paul Martin, Former Prime Minister of Canada

"a must read for educators... and anyone concerned with the future of education today."

-Irina Bokova, Former Secretary-General of UNESCO
HUMANITY AND EMPATHY  FUTURE PROSPERITY  TECHNOLOGICAL INNOVATION

@msoskil Photo Credit: Teaching in the Fourth Industrial Revolution, Chapter 1
Not all solutions are technological
Updated SAMR Model for the 4th Industrial Revolution

Socially Conscious Problem Solving
- Technology allows for creation of new, previously impossible opportunities for students to learn by solving local and global issues.

Redefinition
- Technology allows for creation of new learning tasks that were previously impossible.

Modification
- Technology allows for significant task redesign.

Augmentation
- Technology acts as a direct tool substitute with functional improvements.

Substitution
- Technology acts as a direct tool substitute with no functional change.

Created by: Michael Soskil

@msoskil
STEM (STEAM/STREAM)

- Is NOT Science, Technology, Engineering, and Mathematics
- Is a culture of problem solving in which all available resources and subjects are used to solve problems.
- Involves design thinking.
- Requires creativity (and the arts are critical)
IT’S HARD TO
CHANGE THE WORLD
WHEN YOU DON’T KNOW MUCH
ABOUT IT.

@msoskil
Poll?

What percentage of the world’s population lives without electricity? (2%, 9%, 16%, 48%)

We are in a worldwide teacher crisis. According to the UN, how many teachers are needed internationally to meet the goal of universal free primary education by 2030? (2M, 12M, 41M, 69M)

Which correlates more closely with societal problems in countries (low life expectancy, drug use, suicide, violent crime, etc.) – inequality or poverty?

Out of the 36 OECD (Industrialized) countries, where does the US rank in lowest infant mortality rate? (1st (best), 9th, 25th, 33rd)
DESIGN THINKING AND UNITED NATIONS SDGS

SDGs Resources:
TeachSDGs.Org
WorldsLargestLesson.GlobalGoals.Org
InnovationSDGLab.com/book
Easy Global Learning Opportunities

• 5 Clue Challenge
  • 5ClueChallenge.com
• Mystery Skype
  • Education.Skype.com
• Take Action Global Projects
  • TakeActionGlobal.org
• Virtual Field Trips
  • MichaelSoskil.com/VFT
SEL and the Design Process

- Understand the lived experiences of those you are trying to help (Empathy)
- Find value in those you are helping. Ask for something in return. (Shared Humanity)
- What are the implications of how we collect and use data?
- What are the unintended consequences?
PBL – What’s the Problem?

Doing ‘projects’ – NOT PBL
- Learning happens before assignment
- Little is learned while completing project
- Learning is not relevant

Project Based Learning
- Project is assigned before learning
- More planning, less ‘instruction’
- Learning is relevant if project is relevant

Problem Based Learning
- Problem is identified before learning
- Highest level of student autonomy/agency
- Learning is highly relevant
How Do I Get Started?

**PBL PROGRESSION**

The more students are in control, the more opportunity for innovation

1. **Project Based**
   - Teacher determines most structure and organization

2. **Project Based**
   - Students determine most structure and organization

3. **Problem Based**
   - Teacher poses the problem to students

4. **Problem Based**
   - Students solve problems they identify in their lives and outside of school
HIP Academy – Bungoma Bridge Project
The Magic Words:
“We should do something about that.”
Every problem in the world has a solution locked inside the passions of our students.

Our job as teachers is to support and empower them as they find the keys.
DON’T MISS OUR NEXT WEBINAR

TUESDAY, AUGUST 25th
1PM-2PM PST/ 4-5PM EST

STARTING AGAIN:
PARENT CONNECTIONS AFTER SCHOOL CLOSURES

DR. MARY CONAGE
DIRECTOR OF SPECIAL PROJECTS
PINELLAS COUNTY, FLORIDA
Thank you

CREATE HARMONY.

Follow Up Survey Will Be Sent To You – We Appreciate Your Feedback