Friday March 28, 2014

8:30 Joan Ferrini-Mundi
→ PCAST report → should engineers teach calculus

uTeach

IU STEM Education

9:30
- Fabio Milner, ASU
- Lilly Albert, BC

10:50 – 11:30

TB

Slugs on Stem

- Gretchen Andreasen
- Nandini Bhattacharya
- Debra Lewis

A public university run like a liberal arts college

Gives a big picture broad description of the program (pure math, computational, and ~~p~~ ed. education → tracks) CA has a 4-1 post BA credentialing structure.

Nandini talked about ACE → focusing on increasing diversity of STEM graduates.

UCSC cont.

One interesting program (MSI) gets undergrad students an opportunity to do teaching activities at the university.

CALTeach → adds more in depth advising for students.
↳ creating a community of future teachers at the university and in the local schools.

11:35 – 12:15 CA Teacher Prep and The Common Core
Eric Hsu, Judy Kysh

↳ Math can make sense → deep curriculum
↳ algorithms can be understood.

dd CA vs CC standards
CSSF is more aligned in Themes to CCSS.

IN California for someone to be a teacher they essentially need a full math major
↳ they've created "Teacher fellows" program to give a community to those math majors.

Modeling → for mathematicians → if an answer has units → That's modeling" Let's make that better and richer.

"We don't want students just to know about math, we want students to figure out math."

$N = a^2 - b^2$

$N = (a-b)(a+b)$

$4k+2$

$2a =$

$2 \cdot 13$ $\quad (2)(13)$ $\quad 2(2k+1)$

17

14 $\quad$ 18

27 $\quad$ 34

29

1