BIG QUESTIONS

What is the role of HEP in K-12 Education?

* Inspiring the next generation of physicists
  + Enabling teachers to feel comfortable engaging students with current research (professional development)
  + Modeling the process of scientific research with teachers (teacher-researchers)
  + Tools for introducing modern physics into the classroom (Curriculum development)
  + Building online learning and research communities around HEP research (access to data)
  + Using 21st century tools (social media/virtual sites)
  + Summer internships, camps and other enrichment programs
* Inspiring the next generation of informed citizen / science advocate
  + Playing a role in the formal education process at the state or local level (review NGSS standards) NOVEMBER PUBLIC RELEASE!
  + Modeling the process of scientific research with teachers (teacher-researchers)
  + Modeling critical thinking skills
  + Speaking/playing with classes (only 1/300 people in the US have ever me t a scientist)

What is the role of HEP in Undergraduate Education?

* Inspiring the next generation of high energy physicists
  + Promptly integrate current research results into undergraduate classes at all levels
  + Reform undergraduate physics classes based on physics education research
  + Include modern physics in laboratory classes at all levels
  + Undergraduate research internships (REU, SULI)
  + Undergraduate conference experiences
* Inspiring and energizing future science teachers
  + Work with university education departments to train future physics teachers (PhysTEC, UTeach)
  + Preservice teacher enrichment (internships, summer enrichment programs)
  + Include preservice teachers in inservice PD workshops and in learning communities
* Inspiring the next generation of informed citizen / science advocate
  + *Physics for Future Presidents* style courses

How do we evolve into a science community that reflects the diversity of our nation?

What can we learn from other disciplines? From our colleagues overseas?

Where do we go from here?

Assess what HEP community is doing now.

Engage community