Don Millard (acting EEC Division Director)

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EEC - Engineering Education and Centers
ERC program is mix of use-inspired basic research and pure applied research
NSF support of innovation ecosystem

EEC Portfolio: Centers, Engineering Education, Human Resource Development

ERC's - ~40 M over 10 years, need to provide a culture of innovation; usually involve activities that are also funded (cost-shared) by industry.

Gen-3 model of ERC's involve translational research and perhaps spinout a small company or license technology. They need to also include mentoring of not only students, but also early-stage faculty

Good graph of the Innovation Spectrum - plot of resources vs. level of development

Icorp - if you have an NSF grant, you can build your idea out into a start-up company. NSF provides 50K to see if that startup is a good idea or not. They also have Icorp for education - looking for educational innovations.

T-shaped professional skills - depth in the engineering discipline, but also communication and other skills needed to be able to interact effectively with others in a multidisciplinary settings.

RED proposals - good information - over 120 pre-proposals, now reviewing the full proposals.

Program in nanotechnology undergraduate education - sensors, societal and other issues. $200K, 2 years - solicitation coming out around May 2015

Research Experiences for Teachers (RET) in Engineering and Computer Science - $600K for 3 years - for K-12 teachers. Perhaps a way to help increase the extent of engineering experience and knowledge in our K-12 schools. Would help us build up a cadre of teachers who can help encourage students to pursue engineering.

EEC also does fund CAREER proposals - they are funding 3 this year. They are looking for early-career faculty who are looking to build a research program in Engineering Education.