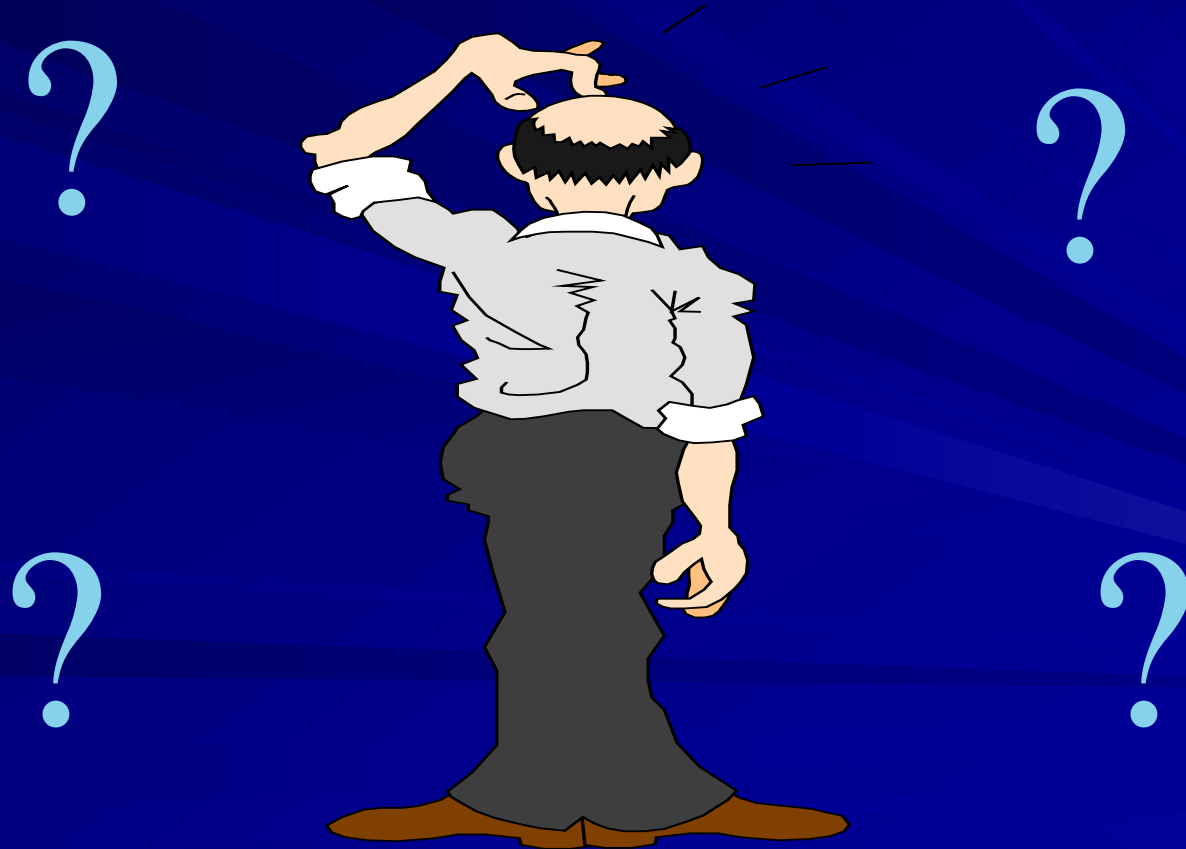


**What National Area of
Need/Compelling
Area of Research Are You Interested
in Working On???**





Developing a Compelling Research Idea or Project

Lesia Crumpton-Young, PhD



***Considerations for
Compelling Research
Ideas, Projects,
Programs, Proposals***

**Benefit to
Societal
Advancement**

**Benefit to
Human Health
and Welfare**

**Benefit to US
Competitiveness,
Environment, Economy**

**Benefit to the Professional
Discipline**

Benefit to the Research Knowledge Base



Grand Challenges

Manage the
nitrogen cycle



Make solar energy
economical



Provide energy
from fusion





Grand Challenges

Restore and Improve
Urban Infrastructure



Advance health
informatics



Provide access to
clean water





Grand Challenges

Reverse-engineer
the brain



Engineer better
medicines



Prevent
nuclear terror





Grand Challenges

Enhance virtual
reality



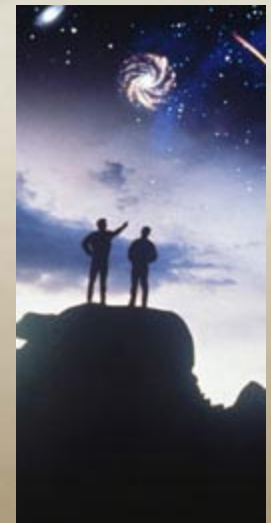
Advance
personalized
learning



Secure
cyberspace



Engineer the tools
of scientific
discovery



<http://www.engineeringchallenges.org/>



The major societal problems that I am most interested in solving include:



Society would be a better place if the following were created:



Society would be a better place if the following solutions were implemented:



US Competitiveness Would Increase If
the following were created or done:



The ENVIRONMENT Would Increase BE
BETTER If the following were created or
done:



My discipline would significantly benefit from the following creations:



My discipline would significantly benefit from the following solutions being developed:



The Grand Challenges that I am most interested in helping to address in our country are:



My knowledge and expertise would be best applied to solving the following problems:



My knowledge and expertise would be best applied to the following areas of study:



Questions

