The nation faces these grand challenges: energy, water, climate change, living with earth hazards, and national security.

energy secondary recovery coal issue wind solar fuel cells hydroelectricity tidal energy the US needs to develop an energy portfolio water freshwater clean water climate change risk assessment across time scales mechanisms of climate change and guidance paleoclimatology hazards earthquakes and tsunamis volcanic flooding coastal subsidence land stability

biological processes

the geosciences are essential to the understanding of many other sciences the geosciences informs most of the sectors of the economy, including insurance, medicine, finance, agriculture, energy, winemaking and beermaking.

Suggested hype material:

Geoscientists can bring to bear unique capabilities to solve problems based on large and often incomplete datasets.

The discipline is changing in response to chaning national needs.