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 changing national needs.