

*What are the societal demands  
and challenges our research  
needs to address?*

University Geoscience UK

“Future Science: a vision for the next 25 years”

Burlington House, London

21-22 February 2017

# Societal drivers

- Economic
- Resource provision
- Health
- Quality of life
- Environmental protection

# Service to Society (Humankind)

- NZJGG, BW Collins, Geology in the Service of Man 1967
- UNESCO – 1962
- Penguin, WG Fearnside, Geology in the Service of Man, 1961
- Pelican, PGH Boswell, Geology in the Service of Man, 1944
- CUP, WW Watts, Geology in the Service of Man - 1924

# Book review in Nature

- (Boswell) NOT so very long ago, the layman who wanted a simply written and up-to-date book on geology would have had to be content with a students' primer not altogether suitable for his needs. Now some half-dozen small volumes, written especially for him, await his choice; and among them this new "Pelican" book takes a high place. **The authors have set out to show how geology has been used in the service of man—when he has been wise enough to utilize such knowledge**—and have made clear their purpose in writing the book by their introductory note: “It is regrettable that more geologists have not been professionally associated with the war effort; it will be a tragedy if geological knowledge is not co-ordinated and directly applied in post-war reconstruction”

# Who are we?

- Geologist, Geophysicist, Geochemist, Geoscientist
- Earth Scientist
- What is a **GEOSCIENTIST**? **Geoscientists** are stewards or caretakers of Earth's resources and environment. They work to understand natural processes on Earth and other planets (Bucknell Univ PA)
- The Four **Earth Sciences**. Many different sciences are used to learn about the **Earth**; however, the four basic areas of **Earth science** study are: geology, meteorology, oceanography, and astronomy. (geology.com)

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## geology.com headlines 20-21 Feb 2017

- Eruptions Cause Bogoslof Volcano\*s Island to Triple in Size
- New Research Shows How \*Atmospheric Rivers\* Wreak Havoc Around The Globe
- Satellite Views of Louisiana Tornadoes
- Swirling Eddies in the Antarctic May Have Global Impacts
- Deep Groundwater Aquifers Respond Rapidly to Climate Variability
- Raising Royalties for Coal Mined on Public Lands
- Earthquakes in Lawrence County, PA Linked to Fracking
- As U.S. Shale Activity Surges, Frac Sand Could Be In Short Supply
- Repeated Red Alerts at Bogoslof Volcano
- Thousands of Buildings in Victoria at Risk of Earthquake Destruction
- Mapping 900,000 Active Oil and Gas Wells in the United States
- U.S. Shale Oil Braces for Inflation
- Big Shale Oil Find in Iran
- Enbridge Buys Into One of Europe\*s Largest Wind Parks for \$1.7B
- U.S. Deploys Carrier to Contentious South China Sea

# For discussion...

**Making the most  
of our relationship  
with Society**



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**Durham Energy Institute**

*Science and Society*

