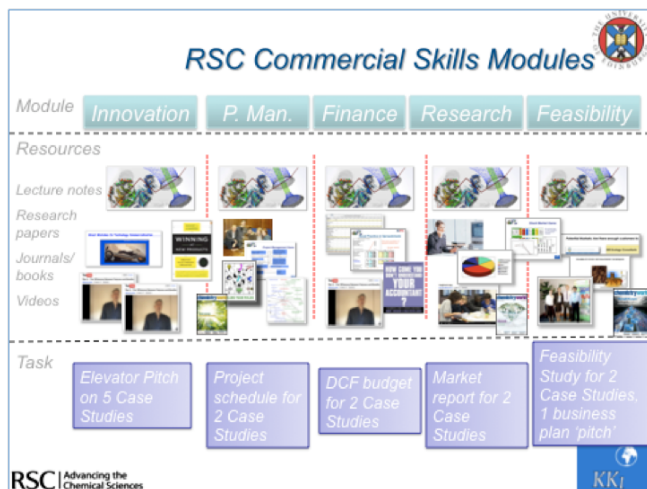


Happy February from KKI Associates!

Highlights of 2012

Working with the University of Edinburgh, with input from 5 major employers, KKI developed 5 'Commercial Skills for Chemists' modules for undergraduate and Masters level chemistry students. The modules comprised 53 separate resources, including videos, games and team-based problem-solving, and extensive tutor guides, and broadly simulate the innovation process used by these companies



The project was carried out for the Royal Society of Chemistry (RSC) and can be found on their 'Learn Chemistry' web-site: <http://www.rsc.org/learn-chemistry/resource/res00000953/commercial-skills-for-chemists-introduction-and-overview>



'Much harder than a normal week but much more fun!'

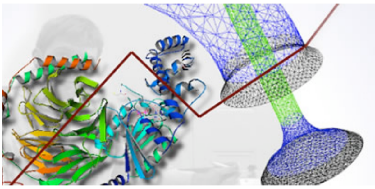


KKI developed innovative context and problem-based learning resources 'The Chemistry of Energy' working with the University of Leicester:

<http://www.rsc.org/learn-chemistry/resource/res00000944/the-chemistry-of-energy>

The material is set in a 'fictitious' country called 'Northland' - some of you may find the scenarios interesting!

KKI Associates consults trains and mentors in the fields of knowledge transfer, researcher development, and energy options. In 2012 we trained over 250 people in workshops from Crete to Cardiff, helped 3 new businesses start-up, presented 5 conference papers, and were nominated for the RSC Inspiration and Industry award.



Reasons to celebrate February!

- Shrove Tuesday (Feb 12th this year)
- Abraham Lincoln's Birthday (Feb 12th)
- St Valentine's Day
- Kissing Friday (Feb 15th this year)
- Anniversary of decimal currency (15th Feb 1971)
- George Washington's Birthday (Feb 22nd)
- Handel's Birthday (Feb 23rd)

February facts

In 1712, in Sweden, there was a February 30th:

http://en.wikipedia.org/wiki/February_30

12-14th February are called 'borrowed days' - if they are good the year's weather will be bad and vice versa

the Anglo-Saxons called February 'Sol monath' or 'Cake month'

<http://projectbritain.com/year/february.htm>

Energy Quiz: Do you know:

Which sector of the UK produces the largest amount of CO₂ ?

Which important energy producing material can be extracted from sea water?

Which rare element, only mined in China, is crucial to the wind power industry?

How many hectares of biomass crops do you need to fuel a Jumbo jet?

In 2013, its 20 years since KKI started!

Yes we can actually remember when 'knowledge exchange' was still called technology transfer!

KKI embraced Youtube in 2013
Watch one of our training days at
<http://www.youtube.com/watch?v=wul9Gn1VAJM>

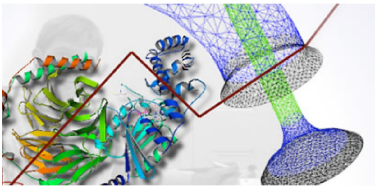
Other reasons to look forward to the rest of 2013

- Two big comets should be visible to the naked eye <http://www.dw.de/2013-set-to-be-an-exciting-year-for-astronomy/a-16489680>
- The 60th anniversary of the discovery of the structure of DNA
- India and China will launch new space rockets
- Croatia joins the EU
- It wasn't the end of the World in 2012
- The summer will have to be drier than 2012

Which (unlikely) element has been trialed since the 1960's as a replacement for expensive copper power cables?

Which country has installed the most hydro and nearly the most wind power?

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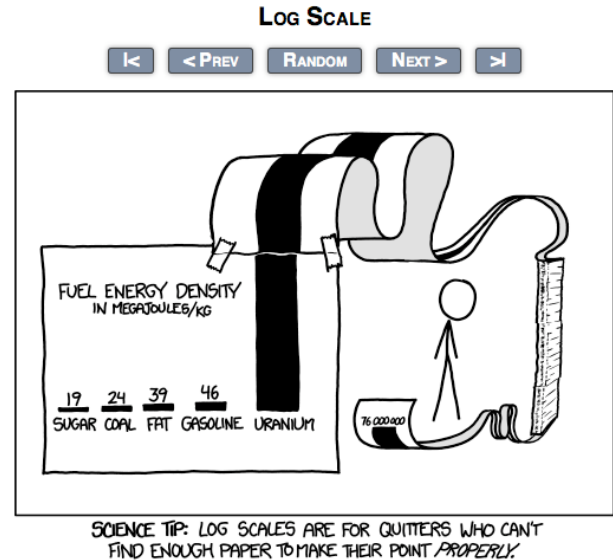


A Picture is worth a thousand words...

Working on the chemistry of energy modules, this was one of our favourite cartoons:

<http://xkcd.com/1162/>

NB: don't change the number to 1040, 980, or 681 unless you have no deadlines

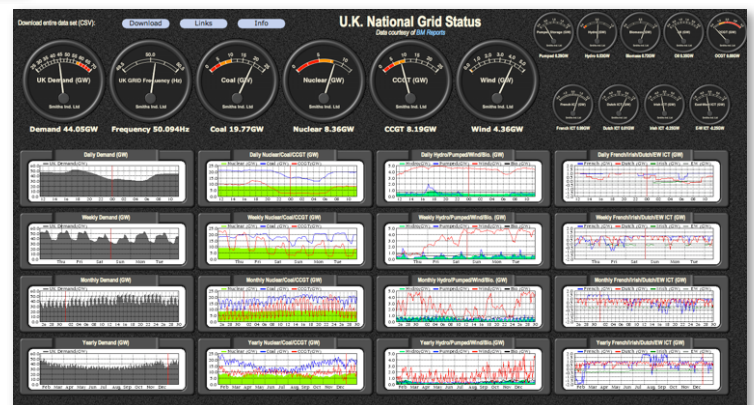


'Drown your brain in the whirlpool galaxy!'

http://www.slate.com/blogs/bad_astronomy/2013/01/28/

Run the national grid from your desktop!

<http://www.gridwatch.templar.co.uk/>



Buildings produce the most CO₂, Uranium can be extracted from seawater, Neodymium magnets are used in wind turbines, 100 hectares of oil seed rape will power a jumbo, Union Carbide tested and installed sodium power cables in the 1960's, China has the most hydropower

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