

**TUESDAY 20 Mar 2012**

**Time:** 5:30pm for 6:00pm start

**Venue:**

Hawken Auditorium, Engineering House  
447 Upper Edward St, Brisbane

**Cost:**

Members	\$15
Non Members	\$30
Students	\$10

**Booking is essential.**

**Speakers :**

**Wally Wight**

Wally, an Adjunct Senior Research Fellow of Curtin University's Sustainability Policy Institute, is an urban, regional and transport planner. He grew up in a post-peak oil community in Alberta, Canada. Passionately involved in sustainability issues, he is the Coordinator of the Brisbane Chapter of the Association for the Study of Peak Oil and Gas (ASPO Australia). He has developed methodologies for oil vulnerability risk management strategies and their application through local government.

**Rowan Barber**

Rowan is a husband, father, Ecologist & an engineer without a border. He is State Manager of the Australian Sustainable Business Group. In his spare time he evaluates tenders & manages construction contracts for an Urban Utility. Rowan is re-framing the Climate Change debate away from discussions of doom & crisis, He notes that fear evokes a flight/fight response & encourages denial. Rowan is a social entrepreneur, a humanitarian & an opportunist.

**Robert Pekin**

Former Dairy farmer, market gardener and founder of Brisbane-based Food Connect; a Social Business and advocacy organisation that provides marketing & distribution solutions for Ecological Family Farmers that builds health & resilience and for Australian Communities. The Food Connect Foundation has pioneered a business replication system that is seeing the model spread semi-autonomously throughout Australia. The Foundation also has a Consultancy arm called Think Food that specialises in Food Systems Assessments.

**Drinks and Networking**

Please join us for a few drinks and light supper after the presentation.

The presentation will count as one hour towards your CPD.

**Presents:**

**Peak Resources  
Oil, Phosphorus, Food...**

**Peak Oil – a Positive Place-Making Tool**

Production of "conventional" oil has already peaked. To maintain supply of liquid fuels, we increasingly rely on expensive, less energy efficient, and riskier "unconventional" sources and substitutes. We will experience sudden disruptions to supply, volatile fluctuations in demand and price (as we are already seeing), and the inexorable decline in availability over time. The age of cheap oil is over.

Managing these risks involves reducing dependence on oil by rethinking the pattern of urban development, infrastructure and services, and bringing people closer to where they work and access goods and services. Measures needed to manage impacts of oil depletion are exactly the same as those necessary to create more cohesive communities, and for a whole range of other very good reasons.

**Peak Phosphorus: Taking the Piss.**

The story of Phosphorus is the story of life itself. If Carbon is the building block of life on earth then consider Phosphorus as the "power supply".

Adenosine triphosphate (ATP) powers metabolism in living cells. While it is abundant in nature, the available supplies of accumulated resources of mineable phosphate rock are diminishing. Phosphate is a finite resource but it can be recovered, reused and recycled. The engineering required is quite literally: a piece of piss. The real problems now are social, economic, legal & political

**Peak Food**

Peak Food is the moment in time when per capita availability of food in the world reaches a maximum and then begins to decline. As world reserve food stocks have now fallen to dangerous levels, and increased prices have failed to push up food production, it seems that Peak Food is here. When reserve stocks disappear, panic and hoarding will clear the shelves, adding to the problem. But worse is to come as food production goes into serious and sudden decline for the following reasons:

- climate change
- oil and gas shortages
- cropland losses
- crops used for ethanol and biodiesel
- competition for water
- falling fish stocks
- population increases with millions in Asia eating more meat so needing more land per person when there is less.

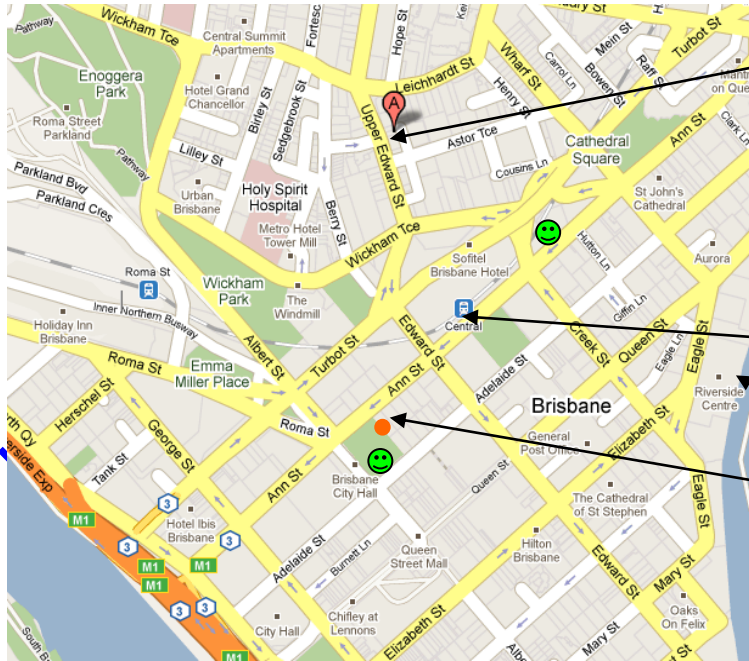


## Drinks and Networking

Please join us for a few drinks and light supper after the presentation.

- Register on-line at the [QLD Division Events Website](http://www.qld.gov.au/engines)
- Please telephone Qld Division for any registration queries (07) 3832 3749

**SSEE encourages you to travel by public transport.**



### Engineering House

447 Upper Edward St

Spring Hill Loop bus  
every 10 minutes until 6pm

Pedestrian - Cycle way

Central Train Station

Citycat

Transport Information Centre

CityCycle station

For more information go to <http://www.translink.com.au/> or visit the **Transport Information Centre** at King George Square station, Ann Street Concourse.

Visit the SSEE website at: <http://ssee.org.au/>

Visit the Engineers Australia Qld website at:  
<http://qld.engineersaustralia.org.au/>

