

# **Biochar Commercialization**

Facilitator: Peter Read

# The panel

- Desmond Radlein, Dynamotive, Canada
- Neil Young, BEST Energies, USA
- David Bryant, Rural Funds Management,  
Australia
- Jim Fournier, Bioenergy and Charcoal,  
USA
- Robert Flanagan, SAFFE, China.

Paris Workshop “to address the policy implications of potential **abrupt climate change**, Oct 2004”

(Thank you UN Foundation’s Better World Fund)

The edited author versions of articles, submitted and selected from the *ACC Strategy Paris Workshop* are now available for download as PDF files. Go to [www.accstrategy.org](http://www.accstrategy.org) [www accstrategy org](http://www.accstrategy.org) and click on “Proceed to download page”

Now published in “Mitigation and Adaptation Strategies for Global Change” **Vol. 11 No 2 March 2006**

“Holistic Greenhouse Gas Strategy”

Peter Read and Aroon Parshotam

submitted *Climatic Change* October **2005**

Now **2007** available (together with comments of reviewers G and H and my rejoinders) as a Working Paper in Wellington Institute of Policy Studies Series. Please visit.

<http://ips.ac.nz/publications/publications/show/205>

ips.ac.nz /publications /publications /show /205

A broad overview will appear as an invited Editorial Essay in *Climatic Change* when the current draft has completed its review process.....

We need to replace the emissions reductions paradigm  
With the concept of  
“Biosphere Carbon Stock Management”

We need to get carbon out of the atmosphere

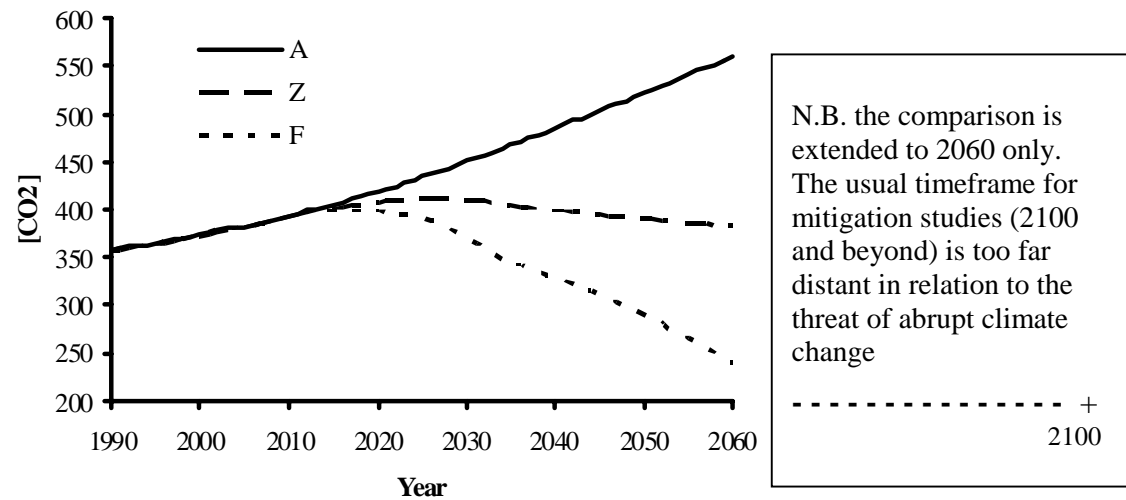
- land improvement schemes to grow more stuff  
(of benefit to farmers and foresters worldwide)

And we need to stock it somewhere safer

- New standing plantation forests
- CCS linked to bioenergy
- Pyrolysis and storage of biochar in soil
- Wooden houses and other structures

On a “breathtaking scale”

**Figure 1: Comparison of zero emission systems and negative emissions systems in mitigating the level of CO<sub>2</sub> (in ppm) in the atmosphere**



Legend

- A SRES-A2
- Z SRES-A2 with a transition to zero emissions technologies between 2011 and 2035  
i.e. unimaginably effective implementation of Kyoto
- F SRES-A2 with a transition to negative emissions technologies on 2.15 b.Ha of land over the same period, and with continued technical progress at 1.5 percent p.a.  
i.e. imaginable land use improvement programme

**Questions for the panel:**

**How can we raise awareness that the effective response involves negative emissions systems, not just reducing emissions?**

**What do we believe is the most effective commercial and political angle for selling the biochar concept as the best mechanism for securing negative emissions?**

**What research or other action is needed to quantify the global potential of biochar and get take up with the policy process?**

**Who are the allies and what is the best strategy for discrediting the opposition?**