




**UofT**

UNIVERSITY OF CALGARY

# Petcoke Utilization Research Program Overview

M. Kawaji  
Dept. of Chemical Engineering and Applied Chemistry  
University of Toronto



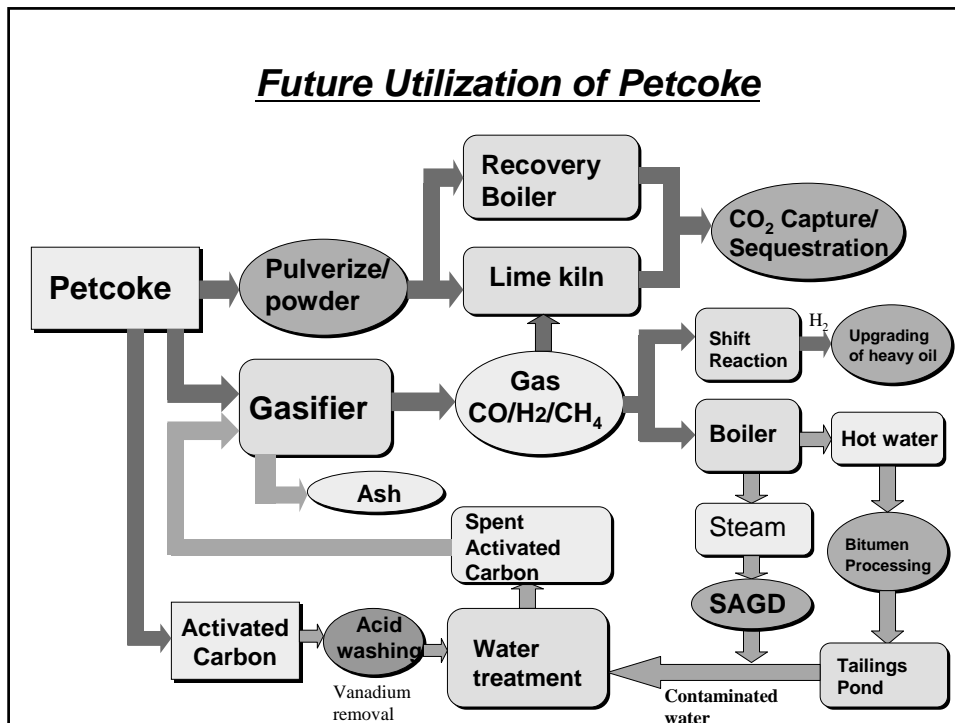
AFRI  
Alberta Forestry  
Research Institute

at University of Calgary  
Dec. 11, 2007

ALBERTA  
RESEARCH  
COUNCIL

## Goal

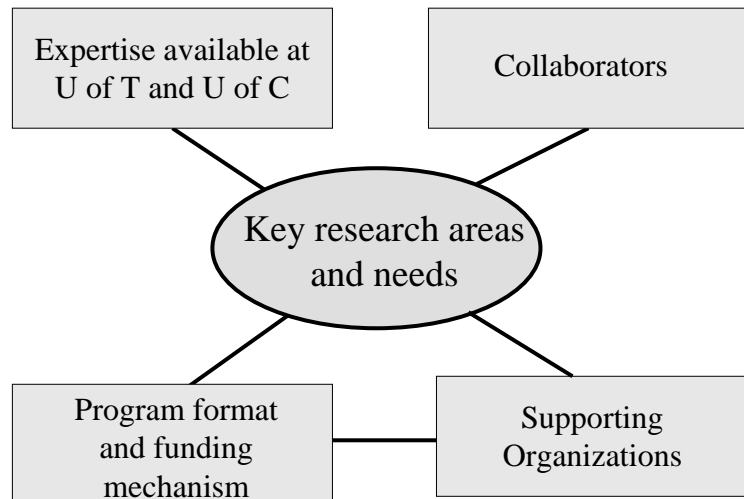
- To establish an integrated research program to explore the potential uses of Albertan petroleum coke in petroleum, pulp and paper, cement and other industries
  - Potential uses of petcoke
    - Fueling of lime kilns and kraft recovery boilers in pulp mills
    - Gasification to produce syngas for enhanced oil recovery
    - Production of activated carbon for water treatment



## Potential Benefits

- New uses of petcoke
- Develop new markets for petcoke
- Bring different industries together for a common goal and leverage
- Enhance University-Industry-Government Collaboration
- Train Highly Qualified Personnel (Students and Researchers)

## Presentations and Discussion



## Presentations

Petcoke supply and demand	E. Isaacs (AERI)
Pulverized petcoke as fuel	S. Hudolin (DTE PetCoke)
Energy use at pulp & paper mills	R. MacDonald (ALPAC)
Use of petcoke in kraft pulp mills	H.N. Tran (UT)
Petcoke gasification	C. Mims (UT) / J. Hill (UC)
Activated carbon from petcoke	C.Q. Jia (UT)/T. Harding (UC)

## **Discussion Topics**

- Program format and funding mechanism
- Research areas
- Collaborators and Industry Partners
- Time frame

## **Next Steps**