

## **Paulo Freire - PhD Thesis' Statements**

1. The Brazilian Petrochemical companies are willing to adopt the Green Chemistry and Green Engineering (GCE) frameworks and to engage in GCE-based eco-innovation processes as ways to achieve advanced states of sustainability.
2. If appropriately promoted by key stakeholders, GCE will be increasingly implemented within the Brazilian Petrochemical sector.
3. The Brazilian Petrochemical companies' willingness to implement GCE-based eco-innovation approaches is a function of: (a) the control over resources and opportunities to eco-innovate, (b) of the social pressures, (c) their attitudes towards environmental and economic risks and favorable business circumstances.
4. The Brazilian petrochemicals manufacturing companies, the trade association and environmental and non-environmental governmental organizations represent the main agents for the introduction, dissemination and implementation of GCE within the Brazilian Petrochemical sector.
5. The Brazilian Chemical Industry Association's Responsible Care Program is currently the main instrument to catalyze progress to implement GCE initiatives at the Brazilian Petrochemical sector level.
6. Behavioral changes are needed for the industrial sector to develop the next generation of more benign processes and products.
7. Behavioral changes towards advanced states of sustainability are a function of companies' behavioral intention (willingness) to perform eco-innovative behaviors.
8. Technological changes based on GCE have extensive influence and affects the broad environmental, and the socio-economic landscape within which the company operates.
9. The identification of the behavioral sources of willingness to eco-innovate provides policy analysts and decision-makers a valuable, selective, systemic and integrated perspective of eco-innovation determinants instead of focusing only on isolated elements.
10. The theory of Planned Behavior-based behavioral models can be used to provide comparative insights into the similarities and differences in the behavioral determinants of the same innovative behavior in specific sectors in different contexts.
11. Green Chemistry and Green Engineering were not invented in Ireland and are not secret "Irish Green" practices used to produce Stout beer.