## Self-Mixing Biogas Generator Faecal Sludge Management Conference International Convention Centre, Durban October 30, 2012

Mr. Tim Canter



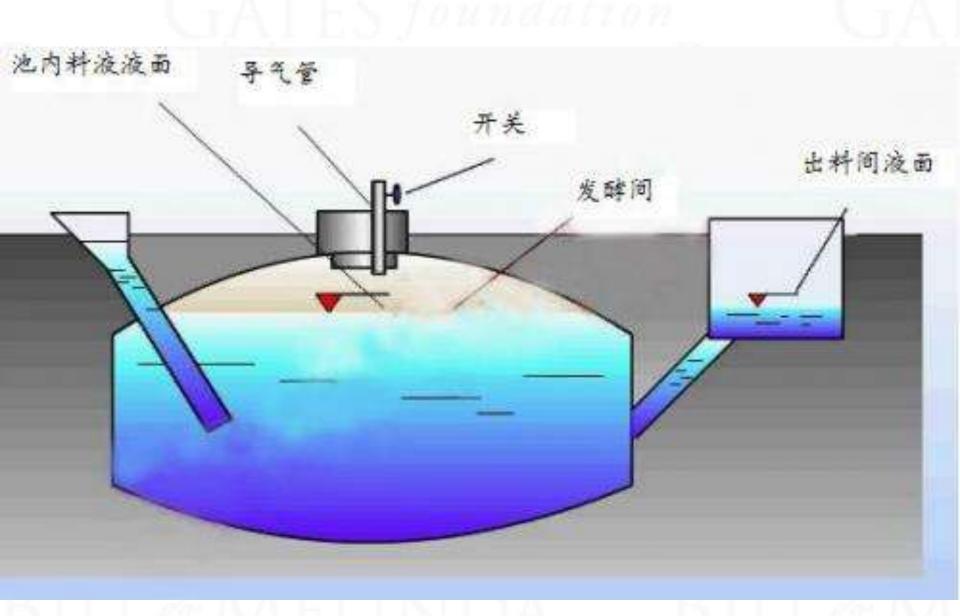


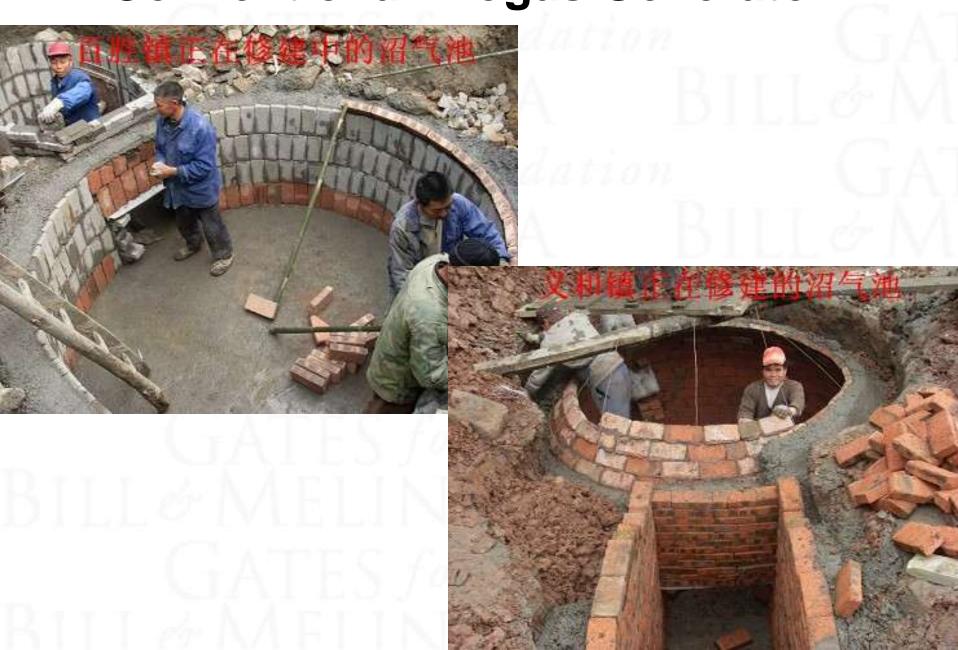
## Agenda

- Conventional Biogas Generators
- Background on Frontier Environmental Technology
- Self-Mixing Biogas Generator
  - Concept and Operation
  - Data
  - Next Steps

## **Unit Conversions**

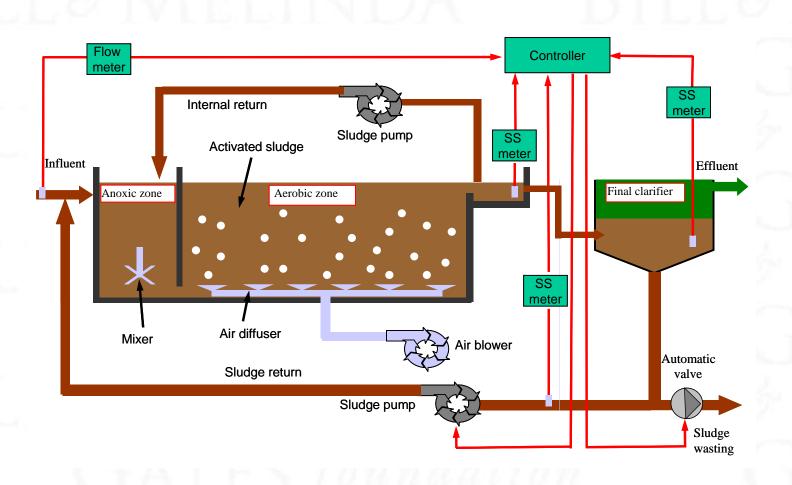
- 1 ft = 0.3 m
- 1 gallon =  $0.004 \text{ m}^3$

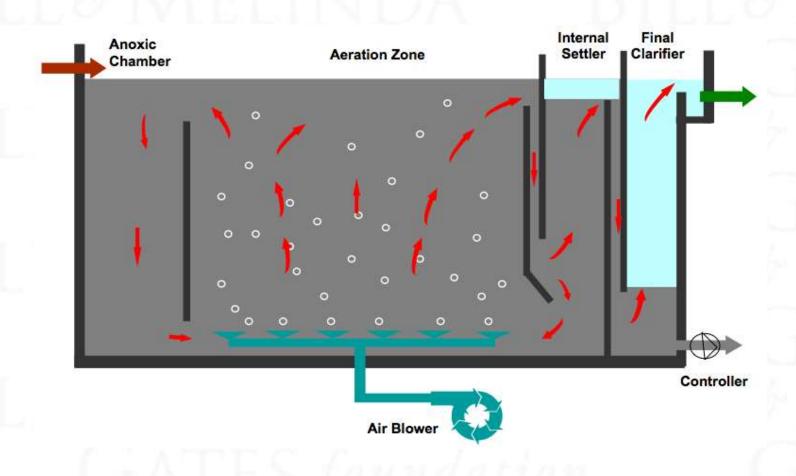


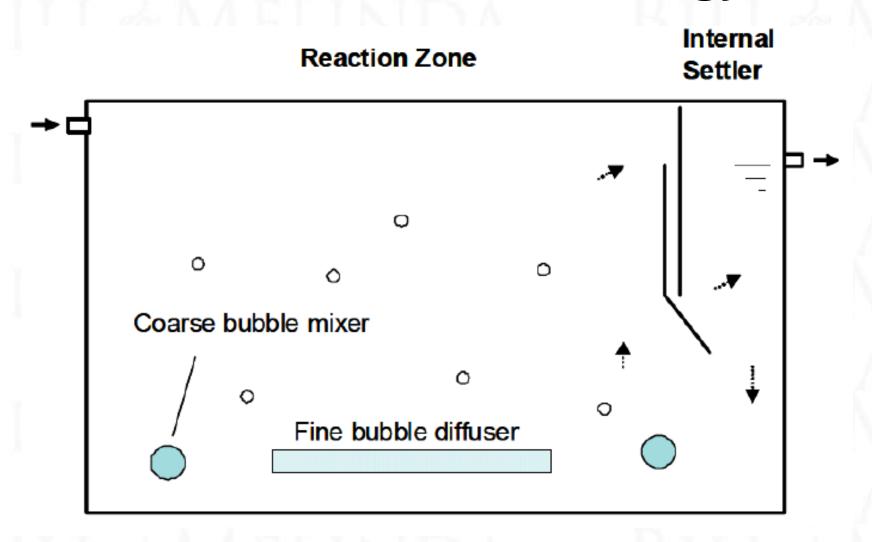


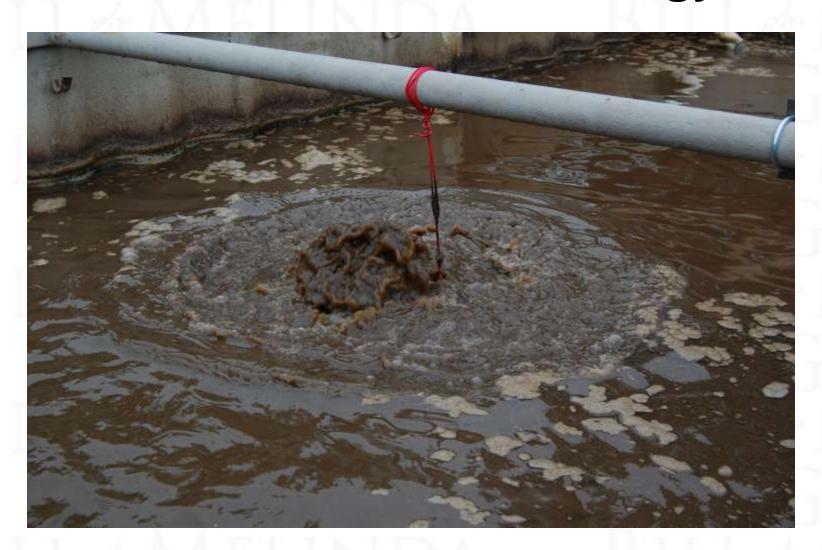
#### Challenges

- Large Size
  - · Costly to build
  - Fabricated onsite
    - Lack of quality control in construction
- Poor Operation
- Maintenance
  - Drain and clean inactive material



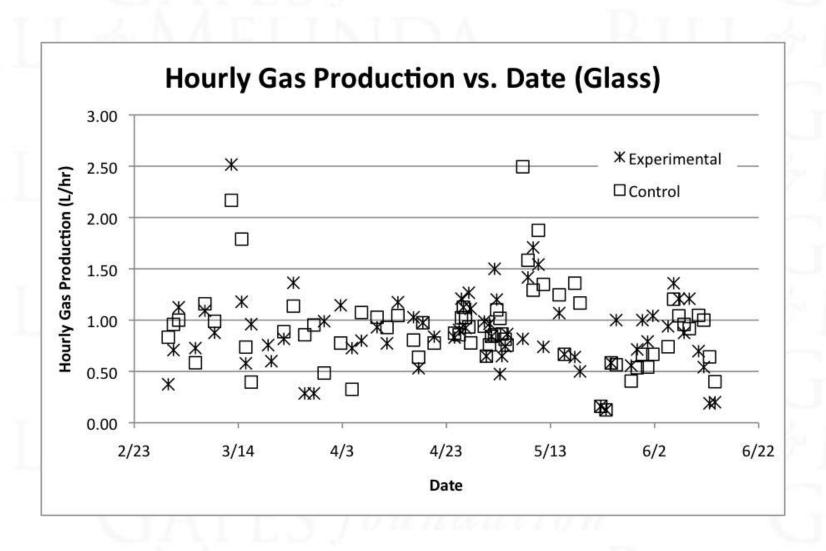






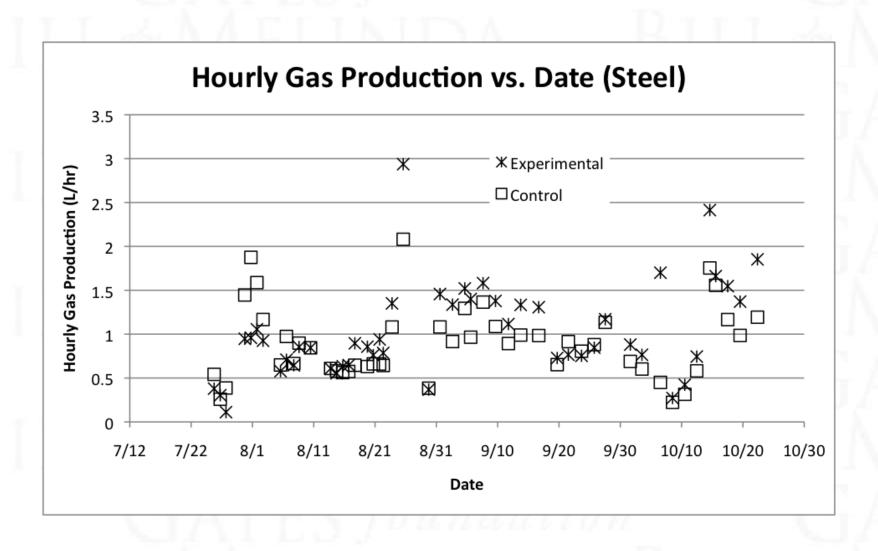


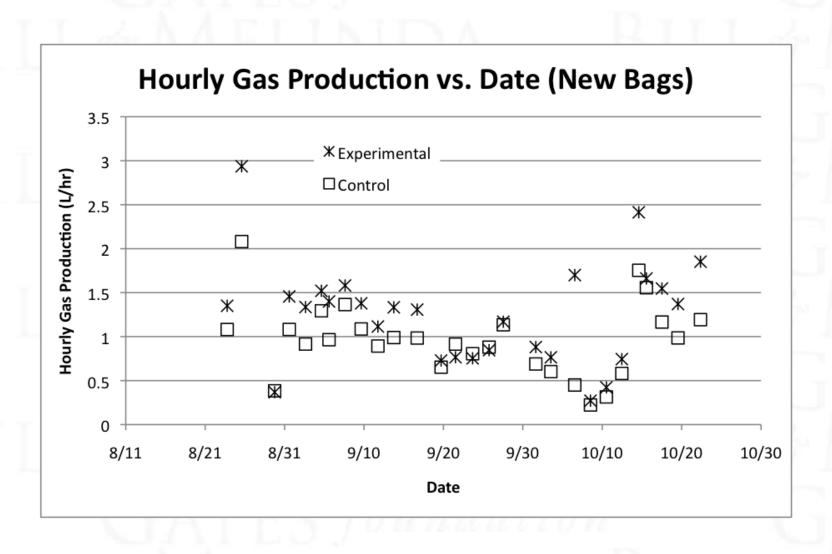


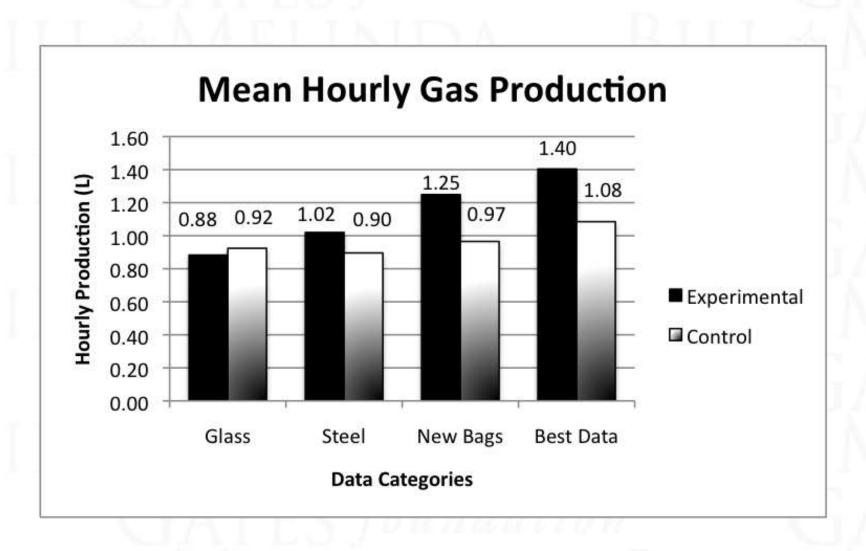


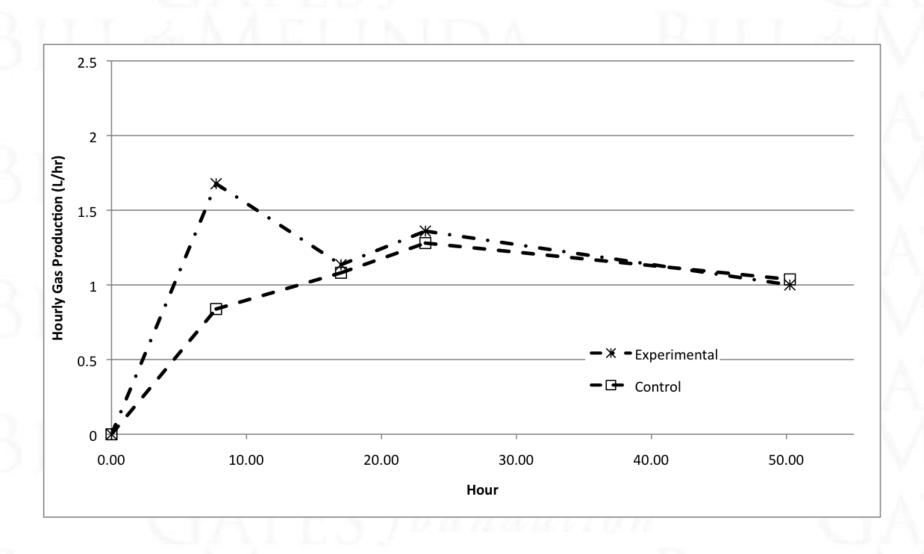


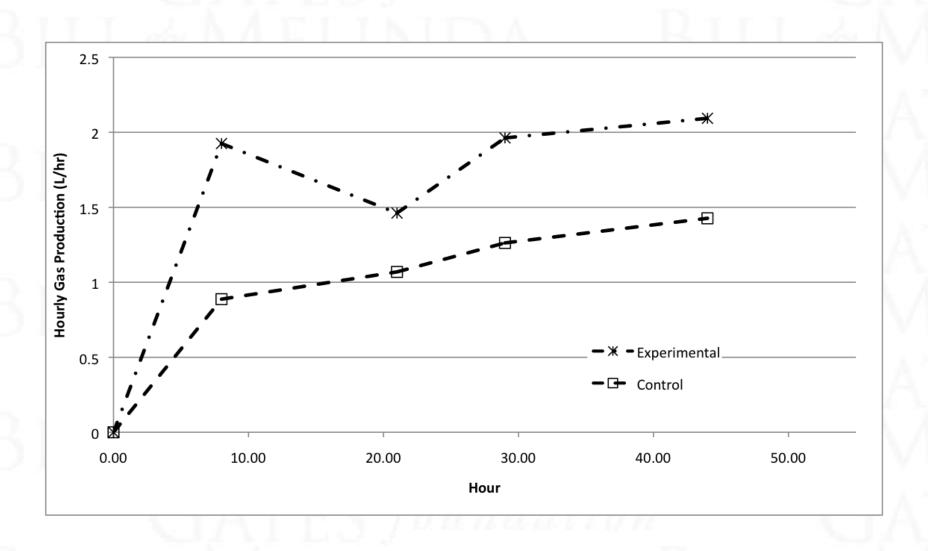












- Next Steps
  - Full-Scale Prototype
    - Improved gas production measurement
    - Apply more active feed
    - Viscosity stress test
  - Beta Testing
    - Madagascar, Kenya, China
  - Finalize Go-To-Market Plan
    - Licensing strategy

Questions