

Chemiluminescence of hydrogen enriched biogas mixtures

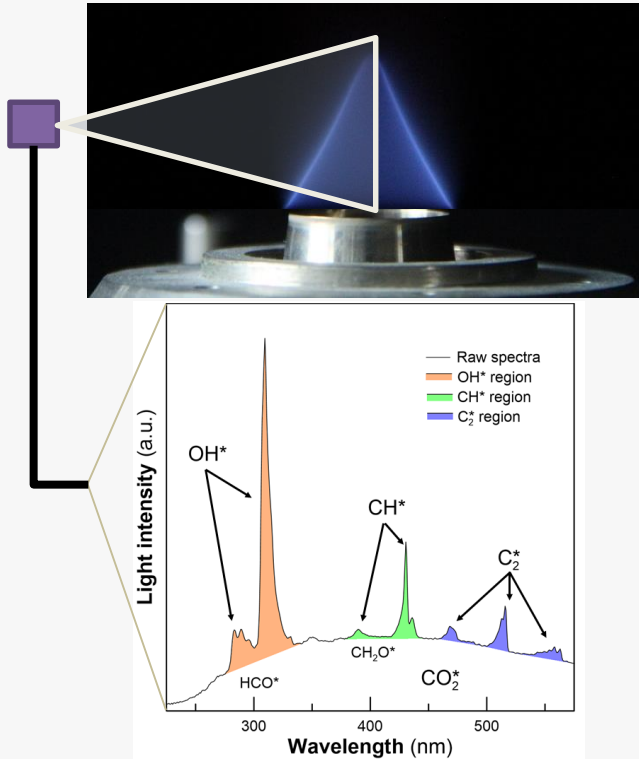
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IN+ GET TOGETHER

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Biogas is a BAD fuel

- Variable Composition
- Bad combustion properties

Sewage Digester



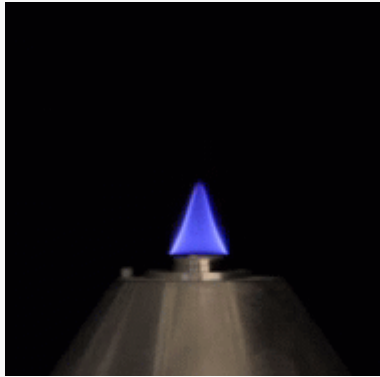
Landfill



Farm Waste



■ CO₂ ■ CH₄ ■ N₂



A biogas flame failing to exist.

Hydrogen is a GREAT fuel

- Just a small of H₂ greatly increases the flammability of Biogas



Hydrogen flames being awesome.

But exactly how much H₂ should we add to get the best burning conditions?

Using Chemiluminescence to monitor flames in real time

