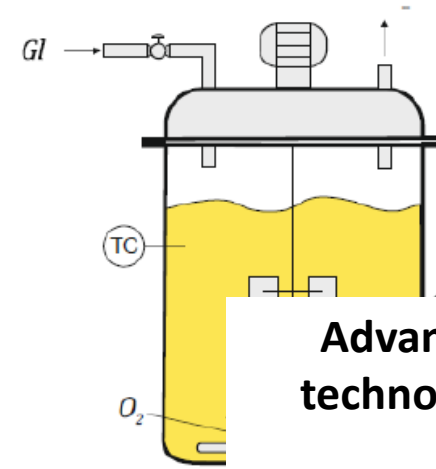
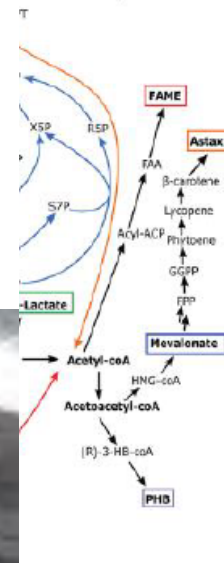




ICR Methanogenesis Reversal Pathway



BUENOS AIRES  
OCTOBER 21-22  
2019

LATIN AMERICA  
MCAA  
RESEARCH  
CONFERENCE

**Advanced encapsulation technology for sustainable detergency**  
2012-2013

**Universitat Rovira I Virgili – Tarragona - Spain**

Programme(s)

Coordinated by:

**PROCTER & GAMBLE SERVICES COMPANY NV**

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\)](#)

Call for proposal  
FP7-PEOPLE-2009-IAPP

Funding Scheme

**MC-IAPP - Industry-Academia Partnerships and Pathways (IAPP)**



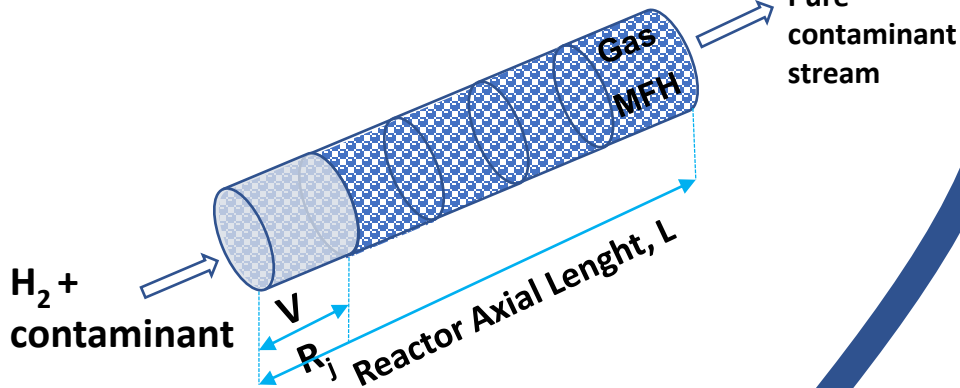
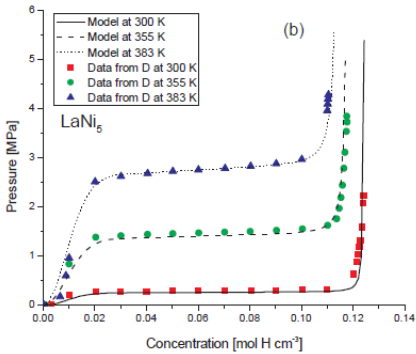
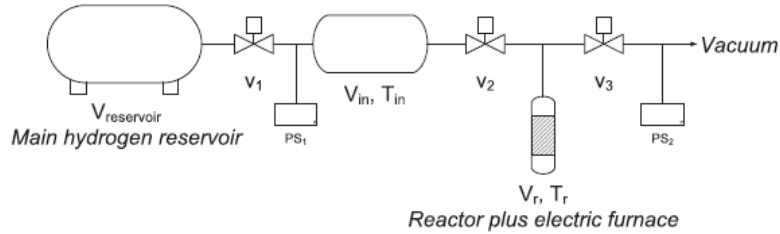
I N G A R

**Process Systems Engineering Group**

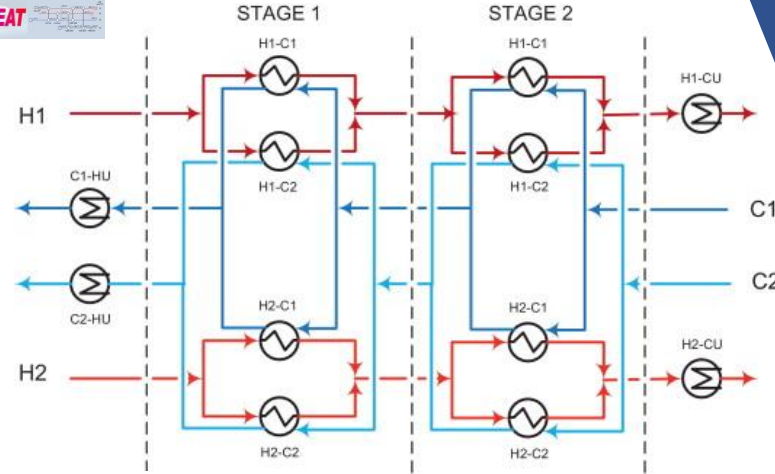
Ph.D. Diego Gabriel OLIVA  
Investigador Asistente CONICET  
Profesor Física II – UTN - FRSF

# GAMS

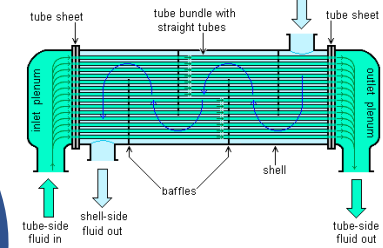
Hydrogen storage on  $\text{LaNi}_5\text{-xSnx}$ .  
Experimental and phenomenological  
model-based analysis



## Heat exchanger networks



### Straight-tube heat exchanger (one pass tube-side)



FEED



RESULTS



GAMS

GLOBAL OPTIMIZATION STRATEGIES

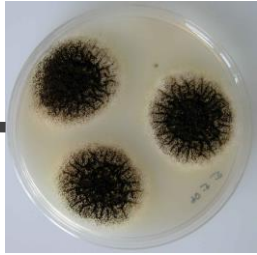
Second generation bioethanol  
production  
lignocellulosic  
biomass as raw  
material

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AMERICA  
MCAA  
RESEARCH  
CONFERENCE

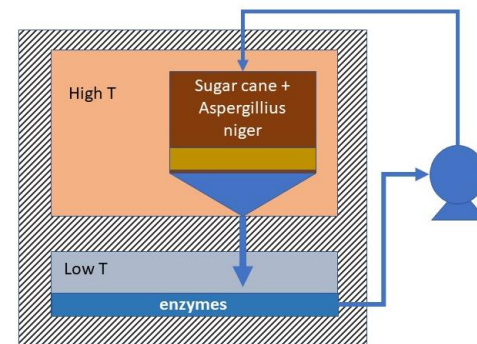
enzymatic  
saccharification

enzymes



Aspergillus niger

In situ  
production  
process



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THANKS!!!!!!

