

FIPSE

US-BRAZIL HIGHER EDUCATION
CONSORTIA PROGRAM



CAPES

**DEVELOPMENT AND IMPLEMENTATION OF
A DEEPWATER TECHNOLOGY CONCENTRATION
WITHIN THE PETROLEUM ENGINEERING CURRICULUM**

Prof. Ali Ghalambor, *U. of Louisiana at Lafayette*

Prof. Celso Morooka, *Unicamp*

Prof. Sergio Bordalo, *Unicamp*

Prof. Hamilton Abreu, *UFC*

Prof. Michael Nikolaou, *U. Houston*

Participating Institutions



University of Louisiana at Lafayette
USA
Profs. Ali Ghalambor & Boyun Guo



Universidade Estadual de Campinas
Brazil
Profs. Celso Morooka & Sérgio Bordalo



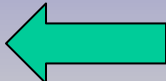


University of Houston
USA
Prof. Michael Nikolaou



Universidade Federal do Ceará
Brazil
Prof. Hamilton Abreu

Memorandum Of Understanding (M.O.U.)

1. Purpose
2. Goals and Forms of Cooperation 
3. Funding 
4. Obligations of the Academic Institutions 
5. Coordination
6. Terms of Agreement 
7. Termination
8. **Resolution of Disputes**
9. Obligations of the Institution Receiving Students
10. Obligations of the Sending Institution
11. **Indemnification**
12. **Insurance**
13. Independent Contractor
14. Student Discipline
15. General Provisions

2. Goal and Forms of Cooperation

**Industrial Partnerships
Chamber of Commerce
Governmental Trade Center**

3. Funding

**External Sources
Special Fees**

4. Obligations of the Academic Institutions

- **Transfer Credits**

Issues:

Full-time Status
Accreditation
Scholarships
Graduation Concerns

Solutions:

Exchange Course
Special Topics
Independent Projects
Co-op Credits
Open Credits (UFC)

4. Obligations of the Academic Institutions

- **Exchange Experience**

Issues:

Enhancement of Disciplines

Solutions:

Field Trips

Professional Conferences

Professional Contacts

6. Terms of Agreement

Fipse and Capes Budget Cycle

Academic Terms

Graduation Concerns

Recruitment

At ULL

- Petroleum Engineering
- Mechanical Engineering
- Chemical Engineering
- Civil Engineering
- Industrial Engineering
- Electrical Engineering
- Geology
- Computer Science
- Environmental Science
- Humanities & Social Sciences

At Unicamp

- Petroleum Engineering

At UFC

- Mechanical Engineering
- Chemical Engineering

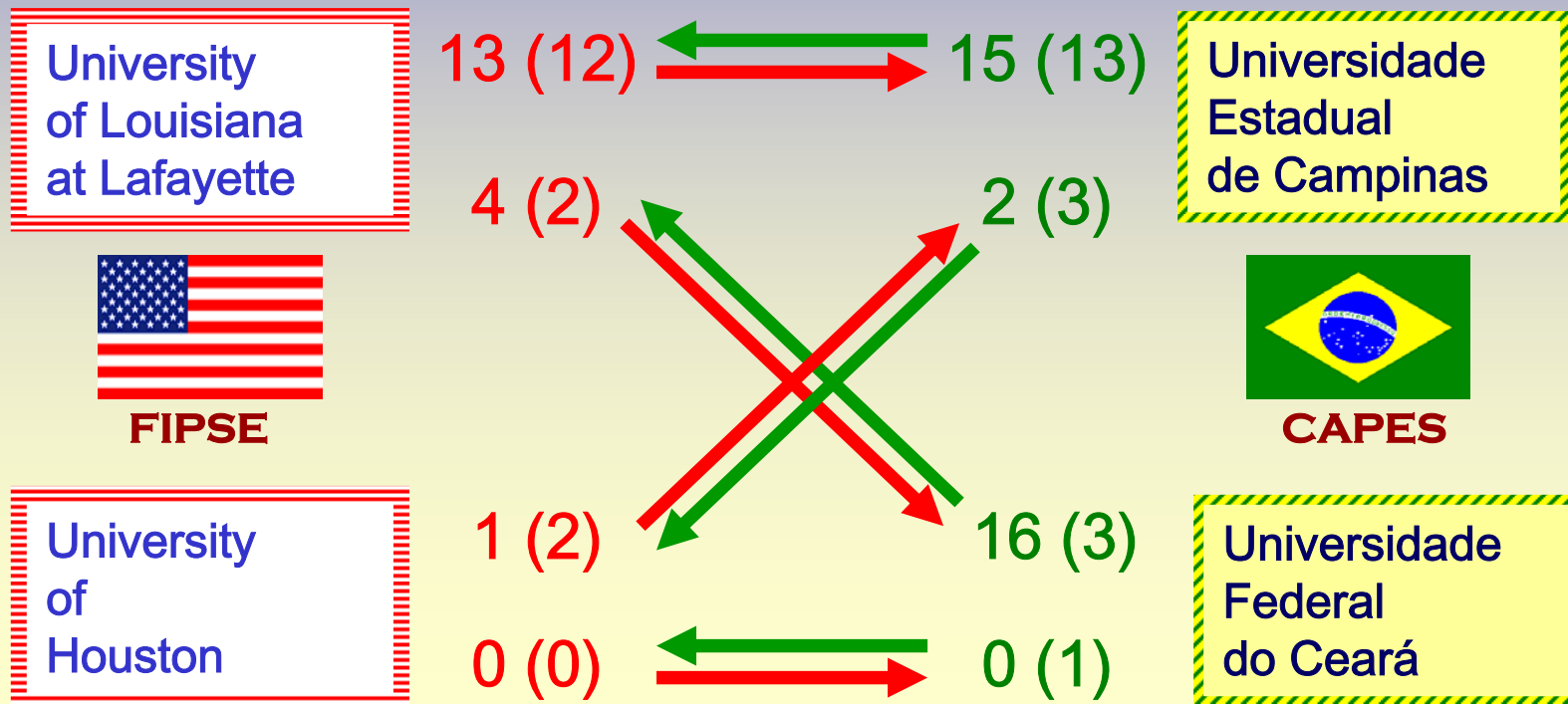
At UH

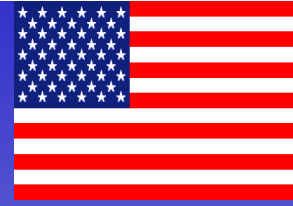
- Chemical Engineering

STUDENT EXCHANGE 2002 - 2006

	2003	2004	2005	2006	Total
Brazilians	7	7	10	9	33
Americans	0	8	9	1	18
<i>Total</i>	7	15	19	10	51

Actual (Proposed)





THANK YOU
OBRIGADO



*Questions or Comments?
Perguntas ou Comentários?*



Information Websites

Website of Petroleum Engineering Department:

<http://petroleum.louisiana.edu>

<http://www.dep.fem.unicamp.br>

<http://www.chee.uh.edu>

<http://www.dem.ufc.br>

Student Exchange Program webpage:

<http://petroleum.louisiana.edu/exchangeprogram>

<http://www.dep.fem.unicamp.br/capesfipse>

Program brochure link:

<http://petroleum.louisiana.edu/exchangeprogram/exchange.pdf>

Accreditation

- National vs. Regional
- ABET Substantial Equivalency
 - <http://www.abet.org>
(click on “International”)

Experience

- **Recruiting**
- **Language Training**
- **Post-Arrival Training**
- **Feedback Assessment**

Recruiting

- Developed a program brochure, created a poster and program CD
- Invite potential candidates to program meetings
 - Start at freshman year
- Offered opportunities to meet in-program students from Brazil
- Offered opportunities to meet candidate students returned from Brazil
- Developed a program Website
- Made presentations
 - International Students' Coffee Hour/Picnic
 - Program-specific student chapter meetings
 - Engage program specific faculty, department chairs, deans

Language Training

- **Worked with department of language to offer special courses**
 - **Formal courses**
 - **Informal conversation hours**
 - **Cultural gatherings – off campus**
 - **Private/mobil on-site classes**
- **Created a chat room for US student candidates and in-program students from Brazil**

Pre-departure Academic Issues

- **Memorandum of Understanding (MOU)**
- **Registration in Exchange Course**
 - Meeting MOU requirements
 - Keeping students in-status for loans & scholarships
- **Reconcile Beginning & Ending Dates of Term in Brazil Relative to US Institution**
 - Summer internships
 - Summer school

Industrial Partnerships

- **Develop list of potential companies that operate in Brazil**
- **Donations in form of**
 - **Field trips**
 - **Site visits**
 - **Software**
 - **Equipment**
 - **Grants**
 - **Internships**

Feedback Assessment

- **Developed an in-house feedback questionnaire**
- **Completion of FIPSE questionnaire**
 - <http://fipse.aed.org/survey/student>
- **Organized meetings with the returned US students**
- **Communicated through emails with Brazilian students returned to Brazil**
- **Project evaluation by industrial Advisory Council**