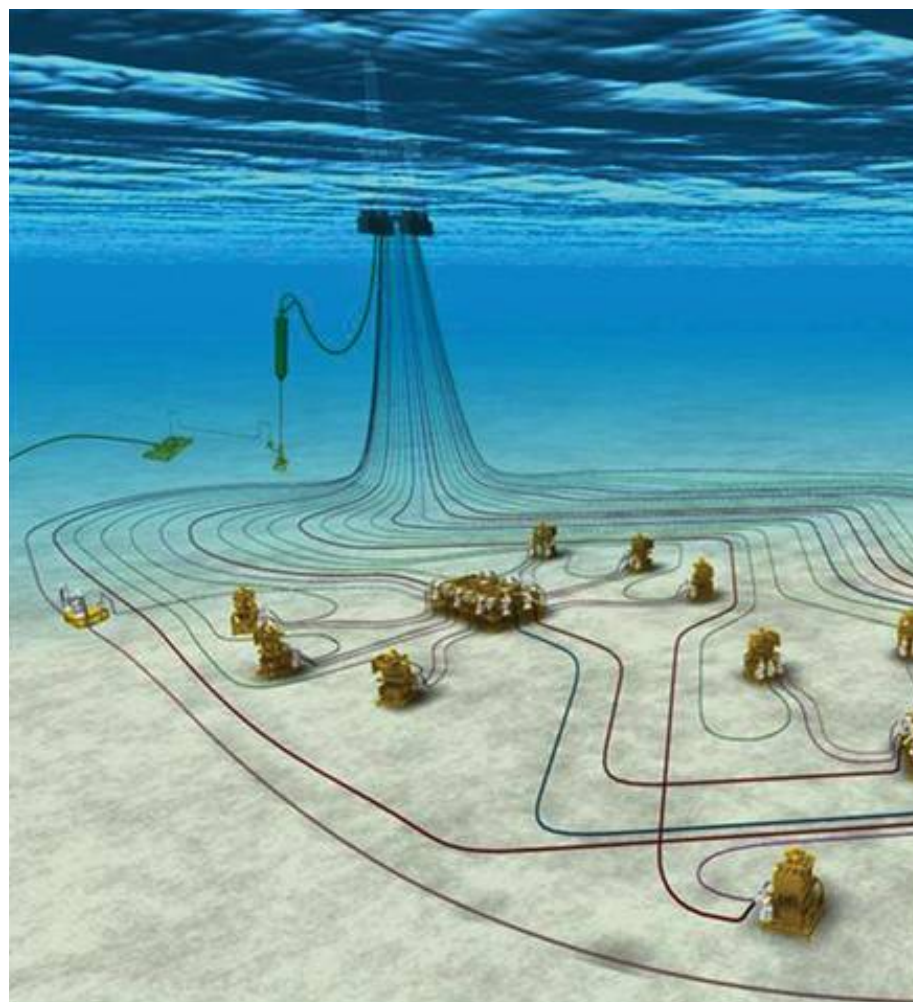


Brazilian Norwegian Subsea Operations Consortium – Intpart (BN- SOC Intpart)

VII November Conference, 2019
Sigbjørn Sangesland, NTNU



BN-SOC INTPART

Brazilian-Norwegian Subsea Operations Consortium (BN-SOC).

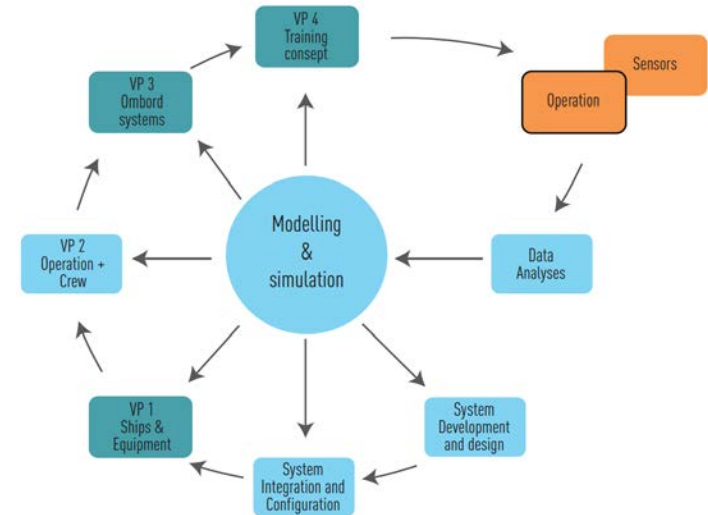
BN-SOC joint activities on education, research and development focus on;

Subsea oil and gas production and processing for fields on the Brazilian and Norwegian continental shelves, where increasing recovery is of vital importance for existing and new fields, within the constraints of cost and carbon efficiency.

INTPART and BN SOC

- INTPART funds partnerships between Norwegian higher education and research institutions
- BN Subsea Operations Consortium
 - Duration 3 years from 2017 – 2019
 - Annual funding from RCN and DIKU: NOK 1,5 mill (~ BR 600 000)

NTNU participation



Activities 2017 -

- Mobility funding of MSc, PhD (Typical 3 - 6 months)
- BN SOC's workshops in Brazil and Norway
- Project development and joint application for funding in both countries
- Short courses

Workshop in Rio de Janeiro, April 2017



- Subsea field development and architecture
- Safety, reliability and maintenance of subsea facilities and systems
- Subsea operations
- Process operations and process control

Workshop in Trondheim, May 2018



BRAZILIAN NORWEGIAN SUBSEA OPERATION CONCORDIUM INTPART

(BN- SOC INTPART)

Short School Workshop & Challenge



State University of Campinas

November, 4th to 8th

2019

Objective

- To learn about the design of offshore petroleum production systems - surface and subsea facilities.

- **Participants:**
 - 6 students from Norway (NTNU)
 - 6 students from Brazil (Unicamp, USP and UFRJ)

- Competition - 3 groups / teams
 - Presentation and evaluation of the group work at the end of course

- **Team A**

- NTNU – Håkon Selmer
- NTNU – Johanne Kornstad Smenes
- USP – Bruno Leite
- UFRJ – Tamires De Souza Alves Da Silva

- **Team B**

- NTNU – Jon-Olav Lynmo
- NTNU – Karsten Skrettingland
- USP – Humberto Sasaki
- Unicamp – Barbara Meneguesso

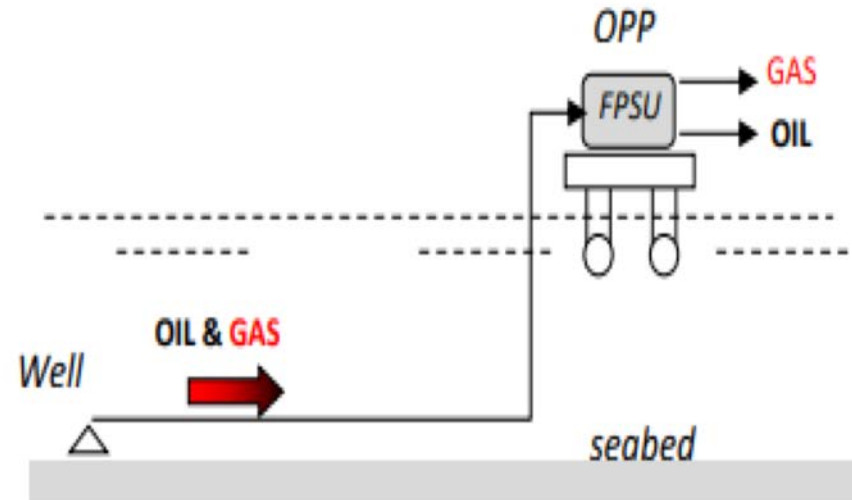
- **Team C**

- NTNU – Rikke Breivik Sund
- NTNU – Shamsi Musayev
- UFRJ – Felipe Da Costa Silva
- Unicamp – Fernanda Amorim

Case: Deep water field development - Brazil

Input data:

- Water depth (2700 m)
- Production profile
- Pressure, temperature
- Fluid composition.
- Subsea vs. topside separator
- Water injection
- Subsea boosting, etc



The groups start working from the beginning of October (Skype meetings)

Course schedule at UNICAMP, November 4 - 8

	Mon 4	Tue 5	Wed 6	Thu 7	Fri 8
Morning	<i>Opening,</i> Lectures	Lectures	Challenge Workshop	<i>Cultural Tour</i>	Team's Presentations, Evaluation
Afternoon	Challenge Workshop	Laboratory	Tour of Unicamp	Challenge Workshop	<i>Closing</i>
	<i>Welcome Reception</i>				<i>Farewell Reception</i>

Course is registered and equivalent to 3 credits at UNICAMP

The screenshot shows the website www.cepetro.unicamp.br. The header includes the CEPETRO logo and navigation links: Início | Institucional | Pesquisa | Ensino | Extensão | Sala de Imprensa | Contato. A main banner image shows two people in a laboratory setting. Below the banner are three yellow navigation buttons: **Pesquisa no CEPETRO**, **Acontece no CEPETRO**, and **CEPETRO em Destaque**. The **Acontece no CEPETRO** button is highlighted with a red dashed box. Red arrows point from text annotations to this box and to a link within it.

Call for the BN-SOC Challenge Week

Detailed Information

Download Folder

[Pesquisa no CEPETRO](#)

[Acontece no CEPETRO](#)

[CEPETRO em Destaque](#)

Conheça nossos Laboratórios. [Leia mais](#)

O Grupo de Pesquisa UNISIM, que atua na área de simulação numérica e gerenciamento de reservatórios de petróleo, divulgou o "Relatório UNISIM 20 Anos". [Leia mais](#)

CEPETRO provides a guide with specific links for foreign students. [Check here](#)

BN-SOC Challenge Week acontece na FEM UNICAMP de 04 a 08 de Novembro, 2017. [Leia mais](#) Veja o folder do evento [aqui](#).

Projetos do CEPETRO-FEM e da FEQ são finalista do Prêmio ANP de Inovação Tecnológica 2019. [Leia mais](#)

16ª Rodada de Licitações de Petróleo da ANP tem recorde de arrecadação, com R\$ 8,9 bilhões. [Leia mais](#)

OPORTUNIDADES - VAGAS: [Acesse aqui](#)

[CADASTRE SEU CURRÍCULO AQUI](#) - [REGISTER YOUR CURRICULUM HERE](#)

"O CEPETRO possui um clipping de notícias". [Leia mais](#)

O CEPETRO por meio da Portaria Interna P: 002/2018 instituiu o prêmio "CEPETRO em pesquisa, desenvolvimento e inovação" - Edição 2018 com a finalidade de incentivar os

From the opening session at UNICAMP





Example of group report