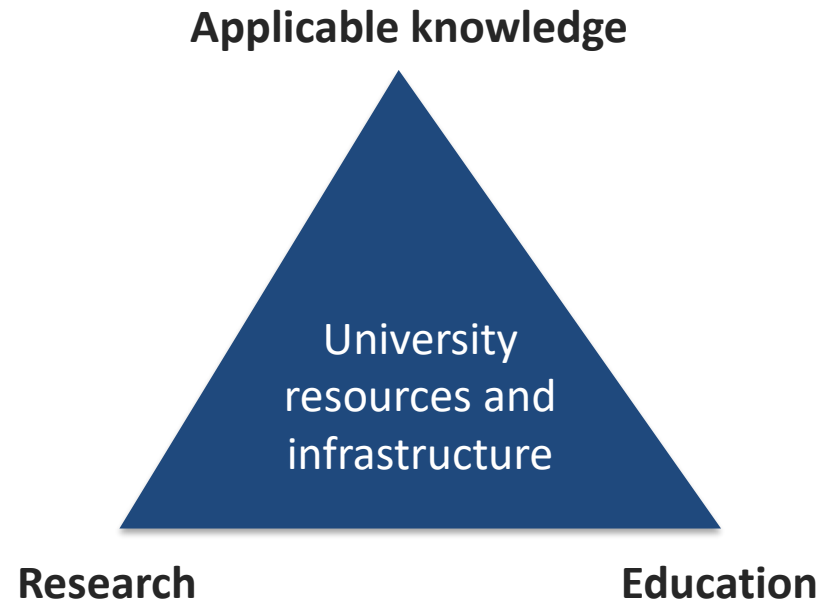
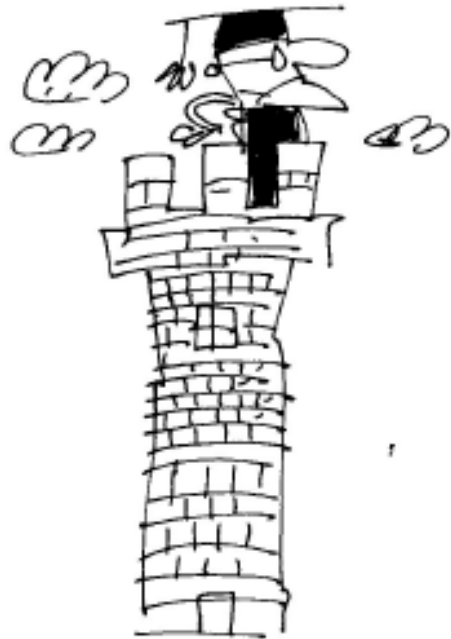


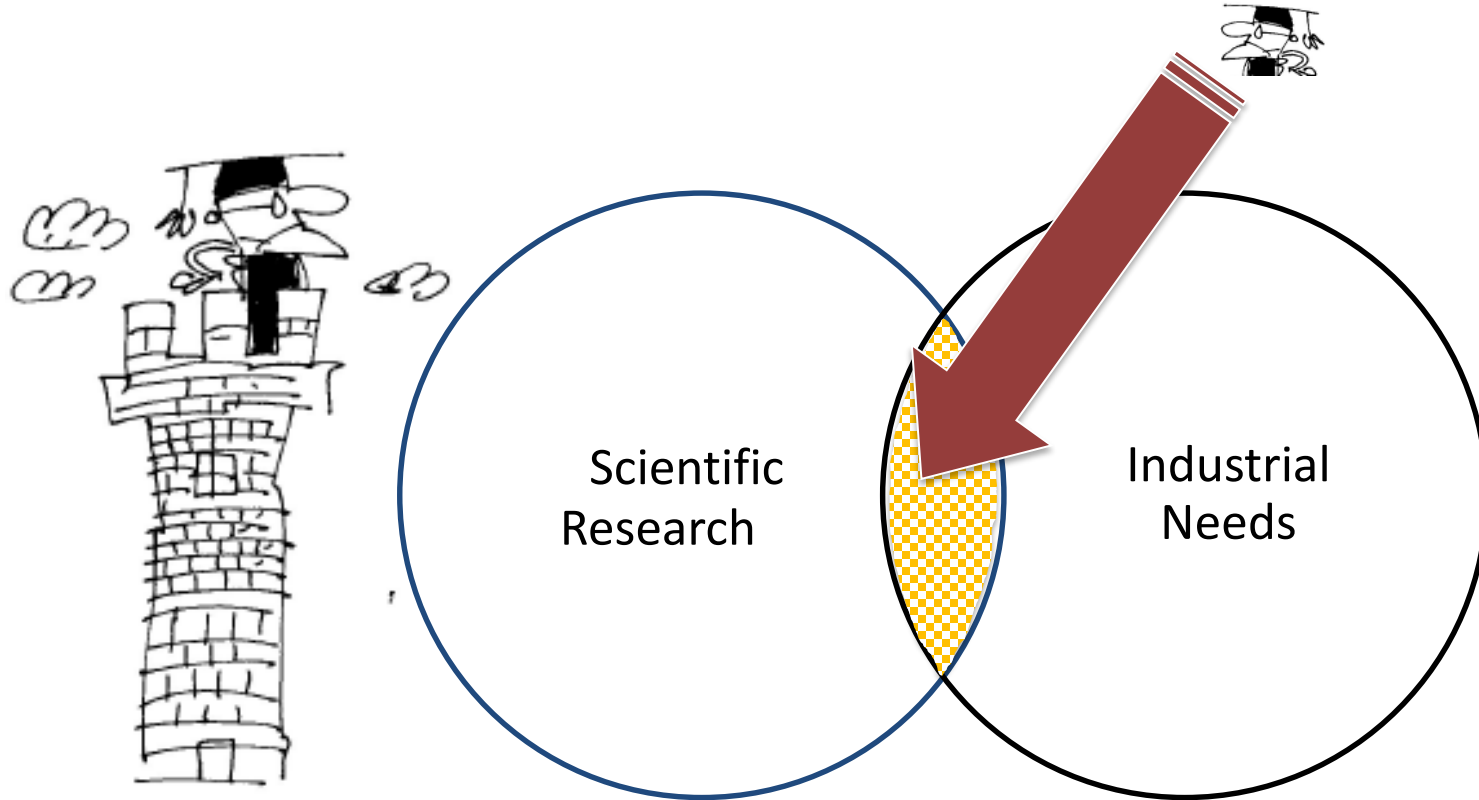
CHALLENGE KNOWLEDGE IN BAROMEDICINE

EUROPEAN RESEARCH COLLABORATIONS INVOLVING UNIVERSITIES AND INDUSTRY

BERGEN INTERNATIONAL DIVING SEMINAR 2019

Ingrid Eftedal PhD
NTNU Research Group Leader





ESTABLISHING RESEARCH COLLABORATIONS

Initial phase

- Identify partners
- Agree on themes with scientific impact
- Target calls for funding (This is the hard part: success rate is typically 5-20 %)
- Apply. Repeat until..

..successful

- Complete research protocols
- Obtain approvals
- Recruit students/PhDs
- Run pilots and quality controls
- Collect and analyze material
- Publish in scientific journals

Conflict of interest is inevitable in university – industry collaborations

- University researchers study questions at the front of science
- Industry is concerned with issues that require applicable solutions
- These are often not the same. Yet research collaborations must address both



PETROMAKS2 — STORT PROGRAM PETROLEUM



Dealing with biology of health professional saturation

Kilde: Forskningsrådet
 Prosjektleder: [Forsker Ingrid Eftedal](#)
 Prosjektnummer: 280425
 Søknadstype: [Kompetanseprosjekt for na](#)
 Prosjektperiode: 2018 - 2022
 Tildelt: 12,0 mill. kr
 Midlene er mottatt fra: [PETROMAKS2 — Stort program](#)
 Organisasjon: [UoH-sektor > Universiteter > N](#)
[UNIVERSITET NTNU > NTNU FA](#)

Tuesday, June 19, 2018

Collaboration Agreement for NRC Project # 480425, Version 0.3

COLLABORATION AGREEMENT FOR KNOWLEDGE-BUILDING PROJECTS IN THE PETROLEUM SECTOR WITH SUPPORT FROM THE RESEARCH COUNCIL OF NORWAY

between

Norwegian University of Science and Technology (NTNU)
 Organization Number: 974 767 880
 ("Project Owner")

St. Olav's Hospital HF
 Organization Number: 883 974 832

Helse Bergen HF
 Organization Number: 983 974 724

Equinor Energy AS
 Organization Number: 990 888 213

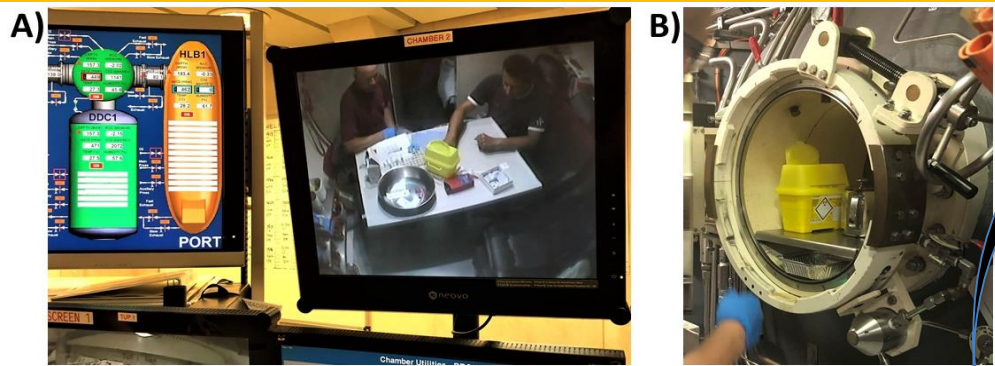
Technip Norge AS (TechnipFMC)
 Organization Number: 963 052 944

Hereafter collectively referred to as the "Participants" or individually as the "Participant".

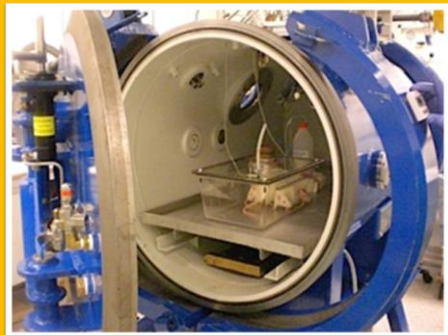
on

Dealing with depths: systems biology of health preservation in professional saturation diving

("the Project")

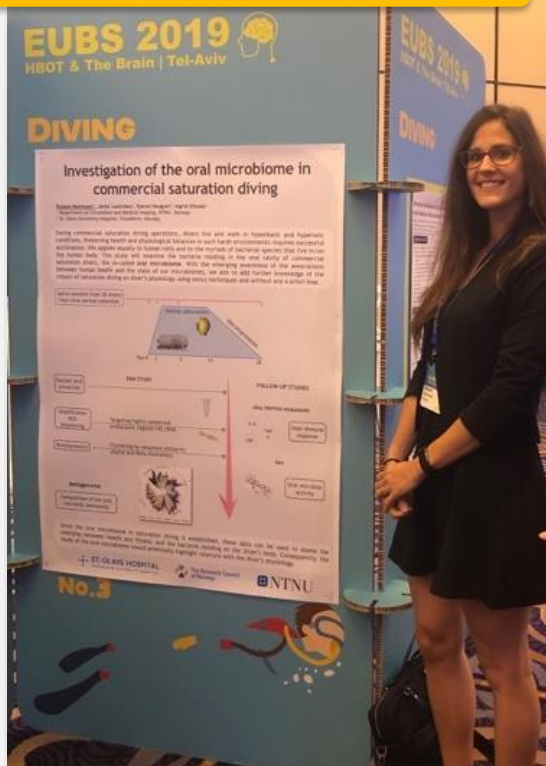


Commercial Diving
exploring responses to
real-life situations



Experimental Diving
controlled studies of
causes and effects

Roxane Monnoyer, PhD candidate



Jacky Lautridou, postdoctoral fellow



UNIVERSITIES AT THE 2019 DIVING SEMINAR



Fatima Kiboub, PhD completed January 2019



Collaboration TechnipFMC, NTNU and Brussels through Norwegian industrial PhD scheme

Simin Ardestani, PhD defense early 2020



Collaboration Aarhus University and NTNU.
Offshore saturation diving study with TechnipFMC and Equinor

Commercial Divers' Subjective Evaluation of Saturation

Jean Pierre Imbert · Costantino Balestra · Fatima Zohra Kiboub · Øyvind Loennechen · Ingrid Eftedal

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Hemoglobin and Erythropoietin After Commercial Saturation Diving

Fatima Z. Kiboub · Costantino Balestra · Øyvind Loennechen · Ingrid Eftedal

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Blood Gene Expression and Vascular Function Biomarkers in Professional Saturation Diving

Fatima Z. Kiboub · Andreas Møllerløkken · Astrid Hjelde · Arnar Flatberg · Øyvind Loennechen · Ingrid Eftedal

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Simin Berenji Ardestani · Costantino Balestra · Elena V. Bouzina · Øyvind Loennechen · Michael Pedersen

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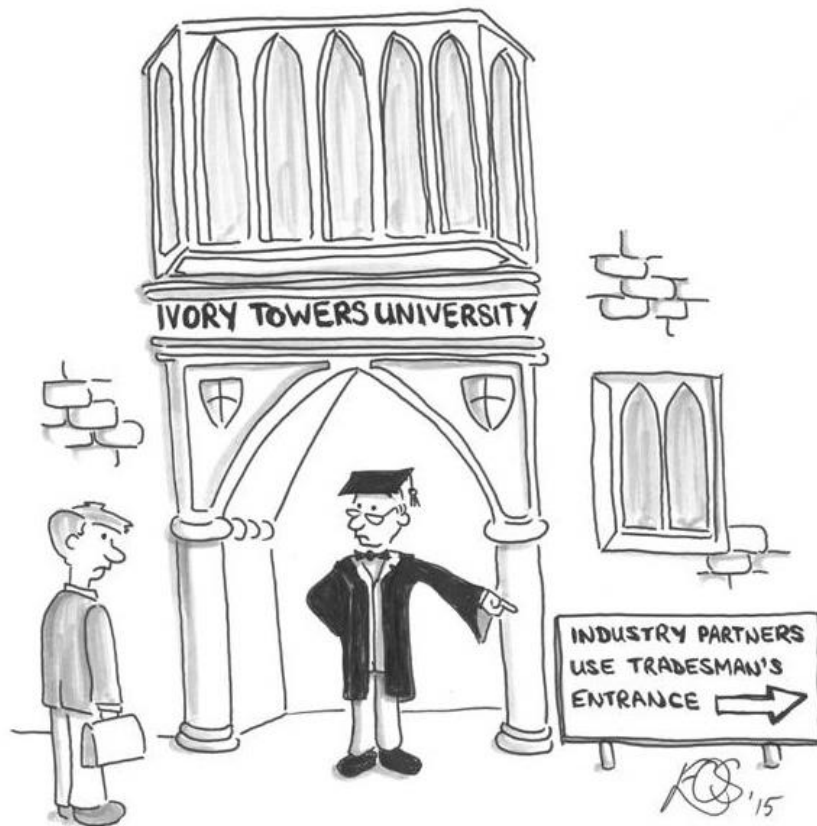
A Single Simulated Heliox Dive Modifies Endothelial Function in the Vascular Wall of ApoE Knockout Male Rats More Than Females

Simin Berenji Ardestani · Vladimir V. Matchkov · Ingrid Eftedal · Michael Pedersen

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Please come and talk with us at the research stand in the exhibition area