

Projects

Center for Industrial Asset management



2014

PHD: Operational infrastructure and work management systems for off- shore wind energy assets

BY Ole-Erik Endrerud
IN PROGRESS (2011-2015)

DESCRIPTION:

Present a maintenance and logistics model of a large-scale wind turbine park in order to investigate how different maintenance strategies and logistics support will affect availability and life-cycle costs. This model will be a decision tool when designing and optimizing maintenance strategies, operational infrastructure and work management systems.

CONTACTS:

Supervisor

Professor J.P Liyanage
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UiS

PHD: Systemic Management of Modern Sociotechnical Systems: Integrating Human, Organizational and Technical Factors in Complex and Dyna- mic Operating Environment

**BY HAFTAY H. ABRAHA
IN PROGRESS (2011-2014)**

DESCRIPTION:

The overall objective of the thesis is to provide knowledge, methods and tools for major accident risk assessment and management for modern sociotechnical systems (e.g. offshore and onshore installations) based on system perspective (system thinking) to improve understanding of the influence of human, organizational and technical factors in complex and dynamic operating environment.

CONTACTS:

Supervisor

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SPONSORS:

UiS

PHD: Network Performance Impact in Complex Manufac- turing Networks

BY Jacob E. Beer

IN PROGRESS (2011-2015)

DESCRIPTION:

The target of this dissertation is to identify parameters of performance effects from inter-organizational relationships in complex manufacturing networks and to outline risks emerging from the increasing interconnectedness inherent to such networks. Strategic responses to such risks will be identified, discussed, and evaluated. This thesis will thus create a more complete picture of causes and effects on firm performance in manufacturing networks and provide a framework based on which strategic decisions can be made with respect to important determinants of performance.

CONTACTS:

Supervisor

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SPONSORS:

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PHD: Creation of “Just in time” maintenance services for the Norwegian Offshore Industry

**BY Nii Nortey Lokko – IN
PROGRESS (2012-2015)**

DESCRIPTION:

To create a framework for provision maintenance services based on improved quantitative and qualitative analysis techniques, condition monitoring and statistical simulations

CONTACTS:

Supervisor:

Professor Tore Markeset

Co-Supervisor:

Sukhvir Singh Panesar

Jawad Raza

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SPONSORS:

Apply Sørco

PHD: Decision Quality in Integrated Operations

BY Thorvald F. Gundersen

IN PROGRESS (2014-2016)

DESCRIPTION:

Explore how the innovation process from idea, to commercialization nationally, then from national commercialization to internationalization, can be optimized in Norway.

CONTACTS:

Supervisor:

Professor Jan Frick
University of Stavanger

Co-Supervisor:

Prof. J.P. Liyanage
University of Stavanger

Industry Mentor:

Are Pedersen,
Future Solutions AS

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SPONSORS:

Future Solutions /
Polytec R&D Institute

PHD: Internationalization of New products in SMEs

BY Murshid M. Ali

IN PROGRESS (2013-2016)

DESCRIPTION:

Explore how the innovation process from idea, to commercialization nationally, then from national commercialization to internationalization, can be optimized in Norway.

CONTACTS:

Supervisor:
Professor Jan Frick
University of Stavanger

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SPONSORS:

The Norwegian Research
Council / Industrial PhD

PHD: Predicting Production Rates of Pouring Ready Mixed Concrete by using Tower Cranes in Egypt

BY Emad el Mahgraby
IN PROGRESS (2010-2014)

DESCRIPTION:

1. Identifying the most effective factors affecting the productivity of pouring ready mixed concrete (PRMC) using tower cranes. 2. Developing a multiple linear regression model using Statistical Package for Social Sciences (SPSS) version 17.50 (2009) to help the estimators and planners in estimating the production rate of pouring ready mix concrete which could affect time planning and scheduling of the project.

CONTACTS:

Supervisor:

Professor Jan Frick
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SPONSORS:

AAST, Egypt

PHD: Certification and Accreditation of quality and safety in a Hospital

**BY Dag Tomas Sagen Johannesen
IN PROGRESS (2012-2015)**

DESCRIPTION:

The objective is to explore the understanding of certification processes in hospitals, and seek to explain various aspects that may affect the legitimacy and adoption of certification programs in health care.

CONTACTS:

Supervisor:
Professor Preben H.
Lindø
University of Stavanger

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SPONSORS:

UiS

PHD: Tripartite collaboration in the Norwegian Petroleum Industry

BY Anita Moen

IN PROGRESS (2008-2016)

DESCRIPTION:

Identify the conflicting lines in the interface between different regulatory regimes, in order to contribute to understanding of the regulatory regimes we have today, if & how harmonizing of different regimes may be obtained.

CONTACTS:

Supervisor:

Professor Preben H.

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SPONSORS:

The Norwegian Research
Council

PHD: Risk management in an inter-organizational project cooperation

BY Lene Jørgensen
IN PROGRESS (2009-2015)

DESCRIPTION:

Develop decision analysis methodologies for implementing integrated operations in a holistic perspective with improved decision quality, maximizing value capture and operational performance in the oil and gas industry.

CONTACTS:

Supervisor:

Professor Preben H.

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SPONSORS:

The Norwegian Research Council,

Petro-maritime Industry,

Stord/Haugesund

University College

PHD: Bayesian Framework for Real-Time Optimization of Well Placement

BY Kanokwan Kullawan
IN PROGRESS (2012-2016)

DESCRIPTION:

The main objective of the project is to develop a framework for real-time well placement. For the published papers: SPE 167433: The main objective is to develop a decision analytic framework applied to geosteering operations. SPE 169849: The main objective is to construct and implement a well-established decision-making method for making multi-criteria decisions in well placement operations.

CONTACTS:

Supervisor:

Professor Reidar Bratvold
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Co-Supervisor:

Prof. Eric Bickel
Prof. Kjell F. Fjelde

SPONSORS:

DrillWell - Drilling and Well Centre for Improved Recovery.

PHD: Calibration Methods and Learning Models for Real Options Valuation in Oil and Gas

BY Philip Thomas

IN PROGRESS (2014-2017)

DESCRIPTION:

To make a working model for stochastic price process calibration. And also I'd like my research to help the industry in applying and learning real options model for their investment decisions.

CONTACTS:

Supervisor:

Professor Reidar Bratvold

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Co-Supervisor:

Prof. Babak Jafarizadeh

SPONSORS:

The Norwegian ministry
of Education

PHD: Selection of Production Riser Concepts for Harsh Environment & Water Depth in the Range of 400m to 2000m

BY Airindy Felisita

IN PROGRESS (2012-2016)

DESCRIPTION:

To identify riser design solutions for harsh environmental conditions (particularly within the NCS) in range of water depth 400 – 2000m . To identify installation criteria for the above recommended design solutions.

CONTACTS:

Supervisor:

Professor Ove Tobias
Gudmestad
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Co-Supervisor:

Daniel Karunakaran

SPONSORS:

E.On E&P

PHD: Offshore Structures exposed to large slamming wave loads

BY Jithin Jose

IN PROGRESS (2014-2017)

DESCRIPTION:

To get a better understanding of wave slamming loads on truss type structures installed on shallow water regions with sloping sea bottom, Estimation of proper slamming factors for the truss type structure based on the experimental studies and Validate the CFD model for the simulation of breaking wave forces on the truss type structures.

CONTACTS:

Supervisor:

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Co-Supervisor:

Charlotte Obhrai Sverre
Haver

SPONSORS:

NORCOWE

PHD: Uncertainties in weather forecasts and impacts on marine operations

BY Adekunle Peter Orimolade

IN PROGRESS (2014-2017)

DESCRIPTION:

Data collection and data verification, for design and installation works, in the cold climate. Identification of uncertainties in weather forecasts for the cold climate region. Suggestion or development of correction factors to account for the uncertainties when planning for marine operations. Risk and cost benefit analysis, on the better approach for mooring and riser connection to a platform in the cold climate region. Development of a concept for improved installation and intervention works of a riser system

CONTACTS:

Supervisor:

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Co-Supervisor:

Erlend Hovland
Birgitte R. Furevik
Helge Skjæveland

SPONSORS:

The Research Council of
Norway (RCN)

PHD: Slamming loads on vertical large volume cylinder from breaking waves.

BY Gunnar Lian

IN PROGRESS (2014-2018)

DESCRIPTION:

Estimate design slamming loads from breaking waves on vertical large volume cylinder.

CONTACTS:

Supervisor:
Professor Ove Tobias
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University of Stavanger

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SPONSORS:

Industrial Ph.D
sponsored by The
Research Council of
Norway and Statoil

PHD: Breaking wave loads on truss support structures for offshore wind turbines.

BY Olga Podrazka , Charlotte Obhrai & Jithin Jose

2014

DESCRIPTION:

Better understanding of the of wave slamming forces acting o the truss structures subjected to the breaking waves and on the breaking waves kinematics.

CONTACTS:

Supervisor:
Professor Ove Tobias
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University of Stavanger

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SPONSORS:

University in Stavanger,
Mechanical and
Structural Engineering
and Materials Science
(grant: Wind Offshore-
Technology)

PHD: Environmental management during production of oil and gas

BY Vlada Streletskaya,

IN PROGRESS (2011-2015)

DESCRIPTION:

Analysis of environmental standards in Norway and Russia, harmonization of Russian environmental legislation with Norwegian relevant legislation by reason of the common economic space in the Barents Sea.

CONTACTS:

Supervisor:

Professor Ove Tobias
Gudmestad
University of Stavanger
&
Anatoly Zolotukhin
Gubkin University

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Consultant:

Alexei Bambulyak
(Akvaplan-Niva)

SPONSORS:

University of Stavanger &
Gubkin University

PHD: Integrated Gasification Combined Cycle Power Plants with Focus on Low Emission Gas Turbine Technology

BY Mohammad Mansouri

IN PROGRESS (2010-2014)

DESCRIPTION:

The overall objective of the H2-IGCC project was to provide and demonstrate technical solutions which will allow the use of state-of-the-art highly efficient, reliable gas turbines in the next generation of Integrated Gasification Combined Cycle (IGCC) plants.

CONTACTS:

Supervisor:

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SPONSORS:

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European Commission,
Directorate-General for
Energy