

Curriculum Vitae:

Personal Statistics:

(Last revision: 2017-02-27)

Citizenship : Norway
Date of Birth : 1951-09-24

Language Capabilities:

| Language | Level |
|-----------|--------|
| Norwegian | Native |
| English | high |
| German | low |



Academic and Professional Attainment:

Master of Science, NTH, Applied Chemistry, 1975

Summary of Professional Experience:

Sigrun Bekkevold was until October 2016 a principal consultant at DNV GL Business Assurance and has 27 years of experience in leading projects for sustainable development of the marine sector. After October 2016 she has been an internal subcontractor for DNV GL working as project manager dealing the MSC standard for sustainable fisheries.

For the last 3-4 years she has been project manager and chain of custody responsible for the initial, assessments, re-assessments and surveillance assessments within the MSC standard, including i.e. Norwegian, Swedish and Danish shrimp fisheries in Skagerrak and the North Sea, Norwegian, Faroese and Estonian shrimps fisheries in the Barents Sea, Norwegian krill fishery in Antarctica, West Greenland off shore Greenland halibut fisheries and Greenland lumpfish fisheries. She has also been project manager in developing a product certification standard for Omega-3 capsules for a Norwegian Food industry client.

Before 2012 her main focus was on research, innovation and business development within total utilization of fish. This includes compiling strategies, action plans, feasibility analysis and market analysis, organizing project teams, performing mass flow analysis, networking with industry, research and authorities, evaluating regulatory issues and communication of results. She held a position of a general manager in RUBIN Foundation, aiming for value adding and better utilization of fish by-products. RUBIN has been owned by the seafood industry in Norway and supported by Ministry of Fishery and Coastal Affairs and the Norwegian Seafood Research Fund. The work has included the whole value chain, from the fishing vessel and all the way to the Market.

Prior to working in DNV and RUBIN she was a consultant in Miljøplan AS leading projects within consequence analysis and feasibility studies in solid waste technology, mass flow analysis of products and hazardous chemicals, analysis and treatment of waste from aquaculture containing antibiotics and labelling of hazardous chemicals. She also has 7 years experience as research scientist at SINTEF, Applied Chemistry Division, with main focus on solid waste technology. She was leading projects in waste management, feasibility analysis, characterization, processing, system analysis, recycling, pollution, mass flow analysis and economy.

She holds a Msc in industrial chemistry and biochemistry from Norwegian University of Science and Technology.

Present Position:

Independent consultant and internal subcontractor for DNV GL Business Assurance, Food department.

Professional Training in DNV GL

2013: ISO 26000 Introduksjonskurs

2013: Utvikling av klimaregnskap i hht. ISO 14064-1 og Greenhous Gas Protocol

Curriculum Vitae:

2013: Defensive Driving
2012: Introduction to power systems
2012: Helhetlig risikostyring
2012: DwD – Dealing with Dilemmas, web
2012: Basic Health, Safety and Environment, web
2012: WE in DNV, web
2007: SHE for employees, DNV Norway
2003: DNV Consulting Course
1993: Mellomledertrening Dnvi

Detailed Professional Experience:

| <u>DNV GL</u> | <u>1990, present</u> |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| MSC Fishery – Norway NEA cold water prawn Re-assessment/surveillance in the Barents Sea | 2016-09 - present |
| Role: Project manager and team member (Chain of Custody) | |
| MSC Fishery – Norway North Sea and Skagerrak/spring spawning herring Surveillance in Skagerrak, North Sea and Barents Sea | 2016-09 – 2016-11 |
| Role: Project manager and team member (Chain of Custody) | |
| MSC Fishery - Greenland lumpfish Surveillance in West Greenland | 2016-04 - 2016-10 |
| Role: Project manager and team member (Chain of Custody) | |
| MSC Fishery - Greenland halibut Full Assessment in West Greenland | 2016-03 - present |
| Role: Project manager and team member (Chain of Custody) | |
| MSC Fishery - Finland Baltic herring and sprat Pre-assessment in the Baltic Sea | 2016-02 - 2016-04 |
| Role: Project manager and team member (Chain of Custody) | |
| MSC Fishery - Norway tusk, ling and lumpfish Pre-assessment in the North Sea | 2015-12 - 2016-02 |
| Role: Project manager and team member (Chain of Custody) | |
| Ocean Space Pre-project Project member | 2015-09 - 2015-12 |

Curriculum Vitae:

MSC Fishery - Norway Skagerrak cold water prawn 2015-03 - present

Full Assessment/surveillance in Skagerrak and the Norwegian Deep

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Denmark Skagerrak cold water prawn 2015-02 - present

Full Assessment/surveillance in Skagerrak and the Norwegian Deep

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Rimfrost Antarctic krill fishery 2014-09- 2016-09

Full Assessment in the Norwegian krill fishery in Antarctic

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Faroe Islands NEA cold water prawn fishery 2014-09 - present

Surveillance Assessment in the Barents Sea

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Estonia NEA cold water prawn fishery 2014-09 - present

Surveillance Assessment IN THE Barents Sea

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Sweden Norway Skagerrak sprat 2014-01 – 2015-01

Full Assessment in Skagerrak and Kattegat

Role: Project manager and team member (Chain of Custody)

MSC Fishery - Sweden Skagerrak cold water prawn 2014-01 - present

Full Assessment/surveillance in Skagerrak and the Norwegian Deep

Role: Project manager and team member (Chain of Custody)

Quality coordinator for Business Assurance 2014-01 - 2015-02

Management review and follow up quality and SHE issues in Business Assurance Norway

Product certification of omega-3 product 2013-08 - 2015-02

Phase one, development of technical specification

General Manager for hire in RUBIN 1998-07 - 2012-10

From 1998 RUBIN has been owned by the Norwegian Fisheries and Industry (national organizations for fishermen, aquaculture and processors) and supported by the Ministry of Fishery and Coastal Affairs and the Norwegian Seafood Research Fund.

RUBINs goals has been total utilization of fish and increased value adding of the fish by-products.

Curriculum Vitae:

Assignments included:

- *Preparation of national strategy and action plans
 - Sustainable development of the Norwegian fisheries
 - Including the entire whole value chain; from catch to market
 - Identification and opening of "bottle necks
 - Commercialization of the results
- *Organizing, financing and following up about 130 projects run by the industry, research and consultants
- *Communicating results (publishing/distributing reports, web info, news letters, presentation at conferences)
- *Net working within
 - fisheries and industries
 - international market players
 - Authorities – ministries, directorates, local authorities, etc.
 - Organizations – FHL/NHO, Fiskarlaget, NSL, Norges Råfisklag
 - Financing institutions – Innovation Norway, the Research Council
- *Statistics – Mass flow analysis
 - Yearly analysis of generation and utilization of by-products
 - Value adding analysis. Gross sales values of end products based on by-products.
- *Regulatory
 - Evaluation of consequences of EU regulations and national public regulations
 - Influencing the Norwegian authorities in adaptation/implementation/development of new regulations
- *Information
 - Active distribution of reports, news letters, etc. (ref. www.rubin.no)
 - Arrangement of national and international conferences
 - Presentations at national and international conferences
- *Relevant professional areas in RUBIN-projects
 - Nutrition and health
 - Risks spreading of diseases
 - Fish handling on board
 - Technology for processing of fish and by-products
 - Chemical and biochemical processes
 - Pollutants, cleaning
 - Market analysis
 - Statistics

Projects coordinator in RUBIN

1992-01, 1998-07

RUBIN was founded by the marine industry, the research councils and the ministries of fisheries, agriculture and environment in Norway.

RUBINs goals this period was increased utilization of organic by-products and reduction of environmental problems with discharge and discards.

Assignment included:

- *Assisting general manager in planning work (identifying bottlenecks and challenges, and elaboration of strategy and action plans)
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Curriculum Vitae:

*Organizing and follow-up R&D projects (about 90 projects in the industry, research institutes and consultant firms)

*Communication of project results

*Statistics (mass flow analysis)

Planning for establishment of the RUBIN Foundation

1991-06, 1991-12

Assisting the board and administration of RUBIN (Recycling and Utilization of Organic By-products in Norway) in developing strategy and action plan

Environmental advisory in aquaculture sector

1990-07, 1991-06

Treatment of waste from fish farming containing antibiotics

Miljøplan AS

1983, 1990

Projects in cooperation with NVH

1989-01, 1990-06

Evaluation, analysis, treatment and measures for reduction of antibiotics in waste from aquaculture

Hazardous chemicals

1983-02, 1988-03

Making Data Sheets and labelling of harmful chemicals for suppliers and producers

Making chemicals library for the suppliers and producers of chemicals

Administration of projects/committees in NTNf

1983-02, 1989-03

Project leader for ad hoc committee in the Norwegian Council for Scientific and Industrial Research (NTNF) on utilization of organic waste (1988-89)

Participating in the secretariat for the research committee within rest raw materials in NTNf (1983-87)

Consequence analysis and feasibility studies

1983-02, 1990-06

Treatment and recycling of solid waste (1983-1990)

Mass flow analysis of products and hazardous chemicals (1983-90)

Utilization of organic waste as feed (1986-90)

SINTEF

1976, 1983

Research scientist in the Solid Waste Mng. Group

1976-07, 1983-02

Participation and leading projects in:

-Waste technology, characterization, separation processes, source separation and treatment techniques, collection and transportation and pollution.

-Feasibility studies of waste treatment systems

-System analysis

-Mass flow analysis

-Working on assignment for UNDP and the World Bank on a Solid Waste Management Study for Addis Ababa
