

# Norwegian Research Group “Pedagogy for the Unforeseen”

Current Main Research Activities - Basic Research and International Anthology Program:

## Collaboration [Samhandling] under Risk – A Step Ahead of the Unforeseen

Scientific leader/editor: Prof. Dr. Glenn-Egil Torgersen, Norwegian Defense University College/  
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**Resources:** This is a relatively large collaboration and network project, consisting of 27 studies/projects by 31 researchers from different universities and research institutions in Norway and Sweden. The results will be published in a scientific anthology in early 2018.

**Concise content:** *Collaboration under risk - a step ahead of the unforeseen* introduces new basic thinking regarding *interaction* to meet unforeseen events. The book conveys new knowledge that forms the basis for a new view on emergency-preparedness management and understanding of the unforeseen in society and learning processes. The starting point is the Norwegian/Nordic concept of *samhandling* (which equates with interaction/collaboration/cooperation/join forces with). Traditional perceptions of the concept of *samhandling* are challenged and new models are introduced with the questions: What are the basic structures of the concept of interaction under risk and how can interaction be created when the conditions are unpredictable? This scientific anthology is relevant for anyone who works with warning signs, handling and stabilizing unforeseen events within most professions in society and emergency management, as well as students, teachers and researchers in education, strategy, human resources and organizational management subjects. The book is in English, made available free of charge to the entire world via Open Access at Cappelen Damm Academic Publishers.

## Overview of research studies and contributors

### Section 1: Educational Collaboration [Samhandling] Structures

*This research focuses on the concepts and challenges involved in estimating interaction as a separate phenomenon in general, and in light of competence and under unpredictable conditions in particular. This is important for learning and improvement processes, including educational and didactical models for "collaboration under risk".*

Theme / scientific problem	Researchers/authors
1 Introduction	Prof. Glenn-Egil Torgersen (Norwegian Defense University College)
2 Samhandling - History and usage of the concept: The Norwegian construct samhandling	Prof. Glenn-Egil Torgersen (Norwegian Defense University College) & Assoc. Prof. Trygve Steiro (Norwegian University of Science and Technology)
3 Is it possible to prevent unforeseen events?	Prof. Torbjørn Rundmo (Norwegian University of Science and Technology)
4 The Relevance of Samhandling (Interaction) in Military Doctrines	Researcher Tone Cecilie Carlsten (Nordic Institute for Studies in Innovation, Research and Education), Prof. Glenn-Egil Torgersen (Norwegian Defense University College), Assoc. Prof. Trygve Steiro (Norwegian University of Science and Technology) & Quality leader Berit Kristin Haugdal (Norwegian Defense University College/The Norwegian Military Academy)
5 Cooperation - Didactic Aims and Means?	Prof. Tobias Werler (Western Norway University of Applied Sciences)
6 Human Interaction: A Mood-Based Perspective	Assoc. Prof. Kristian Firing (Norwegian Defense University College/ The Royal Norwegian Air Force Academy) & Assoc. Prof. Odin Fauskevåg (Norwegian University of Science and Technology)
7 Apprenticeship Learning in Preparation for Meeting the Unforeseen	Educational supervisor Ingrid Nyhus (Norwegian Defense University College), Assoc. Prof. Trygve Steiro & Prof. Glenn-Egil Torgersen
8 Digital Collaboration in Education for the Unforeseen Future	Ass. Prof./PhD. student Gila Hammer Furnes, Prof. Herner Sæverot (Western Norway University of Applied Sciences) & Prof. Glenn-Egil Torgersen (Norwegian Defense University College)
9 Leading and Managing Interaction Under Risk in the Police: What are some of the underlying conditions for learning from experience?	Prof. Brita Bjørkelo (Norwegian Police University College)

## Section 2: Organizational Collaboration [*Samhandling*] Structures

*This research focuses on different aspects of leadership, innovation, learning and organization in relevant industries, agencies and emergency management, highlighting different research methods, aspects and shades of meaning regarding the concept of “interaction” competence under unpredictable conditions.*

10	<b>Weltbürger Perspectives and Samhandling [Interaction]</b>	Assoc. Prof. Trygve Steiro (Norwegian University of Science and Technology) & Prof. Glenn-Egil Torgersen (Norwegian Defense University College)
11	<b>Social Innovation and Stakeholder Collaboration: Identifying and engaging stakeholders with power, passion and presence</b>	Assoc. Prof. Irmelin Drake (University College of Southeast Norway)
12	<b>The Triad of Uncertainty and the Interaction Between Scientists and the Public</b>	Prof. Raino Malnes (University of Oslo)
13	<b>Organizational Didactics for the Unforeseen: Social Innovation as a Factor in Collaboration Training Practice Preparation</b>	Assoc. Prof. Leif Inge Magnussen (University College of Southeast Norway)
14	<b>Concurrent Learning and Samhandling [Interaction] under Risk</b>	Assoc. Prof. Trygve Steiro (Norwegian University of Science and Technology) & Prof. Glenn-Egil Torgersen (Norwegian Defense University College)
15	<b>Interaction and Risk Management in Shared Leadership</b>	Assoc. Prof. Carl Cato Wadel (University of Stavanger)
16	<b>Competence for the Unforeseen - the Importance of Human, Social and Organizational Factors</b>	Lt. Col./PhD student Marius Heiberg, Prof. Glenn-Egil Torgersen (Norwegian Defense University College) & Prof Torbjørn Rundmo (Norwegian University of Science and Technology)
17	<b>Military Interaction – Formal and Informal Behavior in Norway’s Armed Forces</b>	Lt. Col., Dr. Tormod Heier (Norwegian Defense University College)
18	<b>Collaboration/Samhandling and Trust in Military Leadership Structures</b>	Commander Johan Bergh & Assoc. Prof. Ole Boe (Norwegian Defense University College)

## Section 3: Operational Collaboration [*Samhandling*] Structures

*This research focuses on finding and concretizing challenges in connection with the concept of “interaction” in operational and practical relationships, in different industries and sectors within society, including the defense sector, health sector, emergency preparedness and anti-terrorism.*

19	<b>Collaboration During Crisis Work – A Three-level Model</b>	Prof. Eric Carlström (University of Gothenburg)
20	<b>Interaction [Samhandling], Preparedness and Supply Chains</b>	Assoc. Prof. Tore Listou (Norwegian Defense University College)
21	<b>Effective Cooperation Between Strangers in Unexpected and Dangerous Situations – A Matter of Swift Trust</b>	Assoc. Prof. Olav Kjellevold Olsen (University of Bergen)
22	<b>Learning from Sports: Samhandling and Risk in Soccer</b>	Assoc. Prof. Trygve Steiro (Norwegian University of Science and Technology) & Prof. Per Øystein Saksvik (Norwegian University of Science and Technology)
23	<b>The Relationship Between Stress and Interaction [Samhandling]: Some challenges for leaders in high-risk organizations</b>	Assoc. Prof. Ole Boe (Norwegian Defense University College)
24	<b>Recovery from An Unexpected Suicide – Coordinating Leaders and Clinicians in Search of a Safe Haven of Cooperation</b>	Assoc. Prof. Kjersti Halvorsen (Western Norway University of Applied Sciences) & Psychiatrist Ann Christin Rivenes (Haukeland University Hospital)
25	<b>Care Coordination and Patient Safety</b>	Prof. Marianne Storm & Prof. Siri Wiig (University of Stavanger)
26	<b>Interaction in Aerial Warfare. The Role of the Mission Commander in Composite Air Operations (COMAO)</b>	Major/pilot Pål Fredriksen (Norwegian Defense University College/The Royal Norwegian Air Force Academy)
27	<b>Military Strategies for Samhandling in Unforeseen Situations - A Historical Perspective</b>	Commander Tommy Krabberød & Assoc. Prof. Jan O. Jacobsen (Norwegian Defense University College/ The Royal Norwegian Naval Academy)

#### Section 4: Theory Construction and the way forward

*This research aggregate experiences and findings from all chapters of the book. A number of SUR structures are derived based on semantic theory construction. These are described in an overall definition and visualized in a model, which in turn, can form the basis of a SUR theory. Extended learning and educational models will contribute to achieve this. Further SUR research is needed, and one of the ways forward should be cross cultural and the global perspective, where different languages and cultures can contribute to a better understanding of SUR issues.*

28	<i>Basic Structures for a New Theory of Samhandling under Risk (SUR) – a Model</i>	Prof. Glenn-Egil Torgersen (Norwegian Defense University College), Prof. Herner Sæverot (Western Norway University of Applied Sciences), Assoc. Prof. Trygve Steiro (Norwegian Univ. of Science and Tech.) & Prof. Hitoshi Kawano (NDA)
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#### *More info:*

<https://forsvaret.no/hogskolene/en/NDUC%20Academic%20Staff/Torgersen%20Glenn-Egil>

<https://forsvaret.no/hogskolene/en/Research%20projects/The%20Unforeseen>

<https://www.fagbokforlaget.no/Pedagogikk-for-det-uforutsette/19788245017687>

<https://forsvaret.no/fhs/du>