Curriculum Vitae – Terese Løvås

***DATE OF BIRTH*:**	13th of June, 1973, Tønsberg, Norway
***NATIONALITY*:**	Norwegian
***TELEPHONE*:**	+47 91897007
CIVIL STATUS	Married, 2 children
WEBSITES	https://www.ntnu.no/ansatte/terese.lovas Researcher ID on Web of Science Google Scholar

EDUCATION

- Doctor in Philosophy of Engineering (PhD), Lund Institute of Technology, Lund University, Sweden. Thesis topic: *Automatic Reduction Procedures for Chemical Mechanisms in Reactive Systems*, 2002.
- Master degree, University of Cambridge, UK, 2008.
- Cand.Scient. (MSc), Niels Bohr Institute for Astronomy, Physics and Geophysics, Copenhagen University, Denmark, 1998.
- Cand.Mag. (BSc), Institute of Mathematical Sciences, University of Tromsø, Norway, 1996.

CURRENT POSITION

2025 –	Vice Dean of Research and Innovation, Faculty of Engineering, University of Science and Technology (NTNU), Trondheim, Norway.
20011 –	Professor in Combustion Modelling and Thermodynamics, Department of Energy & Process Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway. Group leader ComKin group

PREVIOUS POSITIONS AND PROFESSIONAL EXPERIENCE

2017 – 2025	Head of Department of Energy & Process Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway.
2009 – 2011	Associate Professor in Combustion Modelling and Thermodynamics, Department of Energy & Process Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway.
2008 – 2009	Associate Professor in Process and Gas Technologies, Department of Engineering and Safety, University of Tromsø. Built up activity related to atmospheric dispersion modelling for arctic conditions.
2006 – 2008	Lecturer in Energy Technologies, School of Engineering and Material Science, Queen Mary, University of London, UK. Built up activity related to CFD for energy conversion systems and turbulent reacting flows.
2005 – 2008	College Lecturer in Engineering and Fellow of Churchill College, Cambridge, UK.
2003 – 2006	Research Associate, Department of Engineering, University of Cambridge, UK. Developing models for chemistry-turbulence interaction in turbulent reacting flows based on DNS.
2002 – 2003	Research Associate, Division of Combustion Physics, Lund University, Sweden. Development of models for combustion. Models implemented in commercial CFD software for engine simulations (LOGEsoft).

FELLOWSHIPS AND AWARDS

2021	Elected member of Norges Tekniske Vitenskapsakademi (NTVA)
2015	The Faculty of Engineering Science and Technology Communication Award, NTNU.

SELECTED COMMISSIONS OF TRUST

2024 – Member of the Executive Committee, Combustion Institute
2022 – Member for Board Directors, Combustion Institute
2019 – 2024 Joint Editor, Proceedings of the Combustion Institute
2018 – 2024 Member of Board of selected Center for Renewable Energy FME (*HighEff*, *Bio4Fuels*)
2017 – 2022 Member of Editorial Board, Combustion and Flame
2017 – 2023 Member of Board of Signa2 AS, National e-infrastructure service.
2016 – 2024 Member of National Committee for professor promotion, Mechanical engineering.
2014 – 2022 President of the Federation of European Sections of the Combustion Institute
2014 – 2017 Head of Thermal Energy Research group, Dep. of Energy & Process Engineering, NTNU.
2014 – 2015 Member for Board Directors Nominations Committee, Combustion Institute
2013 – 2022 Member for Board, Centre of Combustion Science and Technology (CECOST), Sweden
2011 – 2019 President of the Scandinavian-Nordic Sections of the Combustion Institute

RESEARCH AREA

23 years of experience after PhD conducting research at higher education institutions in engineering subjects. Areas of interest; theoretical and experimental research of combustion and reacting turbulent flows, including kinetics of alternative fuels (bio, hydrogen, ammonia), modelling of gasification of solid biofuels (reactive multiphase flows) for biofuel production, investigation of particle formation in turbulent reacting flows using direct numerical simulations, dynamic chemical models for combustion in engines and turbines, studies of characteristics of surrogate fuels including modelling for modern low emitting fuels. Main supervisor for 15 PhD candidates to completion, and 9 postdoctoral researchers (2-4 years).

Selected recent grants:

- *AMAZE: Ammonia Zero Emissions*, IPN. Co-funded by the Norwegian Research Council and industrial partners. Partner.
- *CAHEMA* Concepts of Ammonia/Hydrogen Engines for Marine Application. Co-funded by the Nordic Energy Research and industrial partners. Partner
- *LowEmission Centre*: Norwegian Centre for innovation (SFI) on low emission technologies for off-shore industry, Co-funded by the Norwegian Research Council and industrial partners. Partner.
- *ACTIVATE:* Ammonia as carbon free fuel for internal CombusTion engIne driVen AgriculTural vEhicle, EEA-Grant. Partner.
- *BIGH2 III*: Enabling use of hydrogen for power production gas turbines. Co-funded by the Norwegian Research Council and industrial partners. Partner
- *BioCarbUP*: Enabling the biocarbon value chain for energy. Co-funded by the Norwegian Research Council and industrial partners. Partner
- *GasPro*: On gasification for liquid bio-fuel production. Co-funded by the Norwegian Research Council and industrial partners. Project Leader
- *Bio4Fuels:* Norwegian Centre for Sustainable Bio-based Fuels and Energy (FME), Co-funded by the Norwegian Research Council and industrial partners. Work package Leader.