

Bo Nordell's Supervised PhD, Licentiate and MSc Theses

PhD Theses

- **Maria Engström (2017)** [Secondary Currents in Groundwater](#). Doctoral Thesis in Water Resources Eng., Div. of Architecture and Water, Luleå University of Technology, Sweden.
- **Bagher Yousefi (2017)** Evaluation and detection of effective factors on Condensation Irrigation and performance using CI2D simulation model, physical modelling. Doctoral Thesis of Irrigation Drainage. Shahid Chamran University of Ahvaz, Iran (Ass. Supervisor 2013-2017)
- **Liuzzo Scorpo, Alberto (2014)** [Heating and cooling of buildings using geothermal heat pumps: characterization of the geothermal source and energy requirements"; - 2D and 3D numerical models using COMSOL Multi-physics](#). Doctoral thesis Trieste University, Trieste, Italy (Ass. Supervisor 2012-2013)
- **Lindblom, Jenny (2012)** [Condensation irrigation: a combined system for desalination and irrigation](#) Doctoral Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Kharseh, Mohamad (2011)** [Reduction of prime energy consumption by ground source heat pumps in a warmer world](#) Doctoral Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Amara, Sofiane (2011)** [Novel and ancient technologies for heating and cooling buildings](#). Doctoral Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Gustafsson, Anna-Maria (2010)** [Thermal response tests: influence of convective flow in groundwater filled borehole heat exchanger](#). Doctoral Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Skogsberg, Kjell (2005)** [Seasonal Snow Storage for Space and Process Cooling](#). Doctoral Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Tuomas, Göran (2004)** [Water powered percussive rock drilling: process analysis, modelling and numerical simulation](#). Doctoral Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Dikici, Derya (2004)** Doctoral Thesis. Cukurova University, Adana, Turkey. (Ass Supervisor)
- **Gehlin, Signhild (2002)** [Thermal Response Test. Method Development and Evaluation](#). Doctoral Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.

Licentiate Theses

- **Kharseh, Mohamad (2009)** [Reduction of prime energy consumption in the Middle East by GSHP systems](#). Licentiate Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Gustafsson, Anna-Maria (2006)** [Thermal response test: numerical simulations and analyses](#). Licentiate Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Lindblom, Jenny (2006)** [Condensation irrigation: simulations of heat and mass transfer](#). Licentiate Thesis. Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Engström, Maria (2005)** [Seasonal turnover in groundwater](#). Licentiate Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Tuomas, Göran (2001)** System for water driven down-hole hammer drilling. Licentiate Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Skogsberg, Kjell (2001)** [Seasonal Snow Storage for Cooling Applications](#). Licentiate Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Gehlin, Signhild (1998)** [Thermal Response Test - In Situ Measurements of Thermal Properties in Hard Rock](#). Licentiate Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.
- **Söderlund, Monika (1987)** [Water Film Solar Collector](#). Licentiate Thesis, Div. Water Resources Eng. Luleå University of Technology, Sweden.

MSc theses

- **Enström, Lenny (2014)** [Evaluation of Facade Integrated Solar Collector in Oslo](#). 61 p. Luleå University of Technology, Sweden.
- **Bonjoch Cots, Salvador (2013)** [Collection, Transportation, Storage and Conversion of Solar Light - Energy system for a single-family house](#). Luleå University of Technology, Sweden.
- **Gasia, Jaume and Latorre Miquel (2012)** [Lucifer, a New Type of Solar Collector](#). Luleå University of Technology, Sweden.
- **Segeberg, Simon (2012)** [Energioptimering av Boden Arena](#). Luleå University of Technology, Sweden.
- **Bomhard, Jakob (2011)** [Dry Water](#). Luleå University of Technology, Sweden.
- **Domenech, Ferran Fuste (2011)** [Implementation of maintenance system for a wind farm](#). Luleå University of Technology, Sweden.
- **Pomar, Francisco Javier and Garcia, Cristina (2011)** [Installation of Borehole Systems in Spain](#). Luleå University of Technology, Sweden.
- **Gil Marín, Eduardo (2009)** A Decision Support Tool for Local Heating Systems. Luleå University of Technology, Sweden.
- **Jonsson, Olle (2009)** [Energieffektivisering av ishallar](#) (Efficient Energy Use in Ice Arenas). Luleå University of Technology, Sweden.
- **Lindberg, Martin and Norin, Kristoffer (2007)** [Dimensionering av uppvärmningssystem för Kv. Näcken, Piteå](#) (Design of heating system for residential area in Piteå) Luleå University of Technology, Sweden.
- **Widatalla, Asim (2007)** [Wind Driven Plate Tectonics](#). Luleå University of Technology, Sweden.
- **Nilsson, Martin (2006)** [EU:s ramdirektiv för vatten: konsekvenser för svensk vattenkraft](#) (Consequences of the New European Water Directive). Luleå University of Technology, Sweden.
- **Hjort, Jonathan (2006)** [Vindkraftsalternativ för större hushåll och medelstora gårdar](#). (Wind Turbines for households and small farms). Luleå University of Technology, Sweden.
- **Bergh, Mattias and Nilsson Andreas (2006)** [Energiutredning Norrbottens Läns Landsting. Björkskatans och Hertsöns vårdcentraler](#). (Energy Study NLL). Luleå University of Technology, Sweden.
- **Sundberg, Peter (2006)** [Termisk energilagring genom fasändringsprocesser: en studie av systemlösningar och produkter med fasändringsmaterial](#). Thermal energy storage through phase change. A study of systems and applications) Luleå University of Technology, Sweden.
- **Ahlström, Anna-Karin (2005)** [Frysproblem i bergvärmebrunnar](#). (Freezing Problems in Energy Wells). Luleå University of Technology, Sweden.
- **Börjesson, Lars (2005)** [Utvärdering och optimering av bergvärmsystemet vid kvarteret Barnfröken](#). (Evaluation and Optimization of Borehole Heat Storage System). Luleå University of Technology, Sweden.
- **Mas Miret, Sergei (2005)** Heat accumulation in air, water and ground as a result of global warming. LTU Report. Luleå University of Technology, Sweden.
- **Nunes de Carvalho, Lara (2004)** [Potential for Borehole Systems in Portugal](#). Luleå University of Technology, Sweden.
- **Sjöberg, Hans (2003)** [Fiskpassage i Luleå innerfjärdar](#) (Fish passage in the Luleå bays). Luleå University of Technology, Sweden.
- **Gustavsson, Björn (2003)** [Förstudie för teknikupphandling av vedpannor](#). LTU Report No: 2003:082 CIV. Luleå University of Technology, Sweden.
- **André, Erik and Schade, Jutta (2002)** [Daylighting by Optical Fiber](#). Luleå University of Technology, Sweden.

- **Gustafsson, Anna-Maria and Lindblom, Jenny (2001)** [Underground condensation of humid air: a solar driven system for irrigation and drinking-water production](#). Luleå University of Technology, Sweden.
- **Lundberg, Jonas (2000)** [Säsongslagrad spillvärme för avisning av Kallax landingsbana](#). (Seasonally Stored Waste Heat for Deicing of Runways at Kallax Airport). Luleå University of Technology, Sweden.
- **Malmqvist, Sofia (2000)** [Ökad användning av biobränsle i Norrbotten. Lokala effekter](#). (Local effects of increased use of biofuel in Norrbotten). Luleå University of Technology, Sweden.
- **Näslund, Magnus (2000)** [Fjärrkyla i Sundsvall baserad på sjövattnet och lagrad snö](#). (District Cooling Based on Sea Water and Snow Storage). Luleå University of Technology, Sweden.
- **Johansson, Per (1999)** [Säsongslagring av kyla i berggrum](#). (Seasonal Snow Storage in Rock Caverns). Luleå University of Technology, Sweden.
- **Miranda, Carlos Alvarez(1999)** Cold Collectors. A sustainable alternative for cold production. 1999:129 CIV. Luleå University of Technology, Sweden.
- **Skogsberg, Kjell (1998)** Bergvärmearläggningen vid Hotell Storforsen. Utvärdering av de första årens drift. (BTES at the Storforsen Hotel. Evaluation of the first years of operation). 1998:286 CIV. Luleå University of Technology, Sweden.
- **Hannu, Magdalena and Sundberg, Li (1998)** Långskataskolan. En utvärdering av inre och yttre miljö. (Evaluation of the Interior and Exterior environment at the Långskata School). 1998:285 CIV. Luleå University of Technology, Sweden.
- **Persson, Jenny (1998)** Potential för köldlagring i fyrkanten. (Cold Storage Potential in the Luleå-Boden - Älvsbyn - Piteå Region) 1998:CIV. Luleå University of Technology, Sweden.
- **Strid, Maria (1997)** Studie av hydrauliska strömningsförluster i termiska borrhålslager. (Hydraulic Energy Losses in BTES). 1997:237 CIV. Luleå University of Technology, Sweden.
- **Gidmark, Mats and Nilsson Susanne (1997)** Lagring av kyla i berg. Ett fjärrkylnät på Porsön, Luleå. (Cold Storage for DC at Porsön, Luleå). 1997:211 CIV. Luleå University of Technology, Sweden.
- **Eklöf, Catarina and Gehlin, Signhild (1996)** TED. [A Mobile Equipment for Thermal Response Test. Testing and Evaluation](#). Luleå University of Technology, Sweden.
- **af Geijerstam, Lena (1996)** Vibrationspumpen. En studie av vibrationsdriven strömning. (The Vibration Pump. A Study of Vibration Induced Flow). 1996:097E. Luleå University of Technology, Sweden.
- **Larsson, Anders (1996)** Dygnsvärmelagring i växthus. (Diurnal Heat Storage in Greenhouses). 1996:046E. Luleå University of Technology, Sweden.
- **Johansson, Jan and Josephsson, Börje (1995)** Naturvärmesystem för biltestningsanläggning i Slagnäs. (Ground Heat Storage System for the Car Test Plant at Slagnäs). 1995:139E. Luleå University of Technology, Sweden.
- **Carlsson, Bo and Nylén, Karl-Olof (1991)** Kombinationsvärmelager i berg. (The Combination Heat Store) 1991:147E. Luleå University of Technology, Sweden.
- **Olsson, Peter and Ödberg, Ulf (1990)** Vattenfylld gruva som värmekälla. (A Water Filled Mine as Heat Source) 1990:051E. Luleå University of Technology, Sweden.
- **Molin, Lena and Olsson, Susanne (1989)** Sedimenttransport i rinnande vatten – laboratorieförsök (Sediment Transport in Flowing Water - laboratory tests). Environment and Natural Resources. Kalmar University, Sweden. Diploma Thesis 1989:5.
- **Larsson, Kjell and Isaksson, Niklas. Istermometern (1988)** (The Ice Thermometer) 1988:092E. Luleå University of Technology, Sweden.
- **Göhlman, Anna (1987)** Uppvärmning av frusen mark. (Heating of Frozen Ground) 1987:030E. Luleå University of Technology, Sweden.
- **Widegren, Mari (1986)** Condensation Irrigation: A Desalination - Irrigation system. Luleå University of Technology, Sweden. 1986:002E.

- **Kull, Per-Olov and Majbäck, Britt-Marie (1985)** Bergvärme med återladdning. (Reinjection in Energy Wells) 1985:076E. Luleå University of Technology, Sweden.
- **Strid, Martin (1984)** Rytmsk strömning: En studie av virbela flödesformer. (Study of Virbela Flow Forms) 1984:072E. Luleå University of Technology, Sweden.
- **Marton, Maria and Andersson, Anders (1981)** Permeabilitet i berg: Provtryckning av värmelagret - (Permeability in Rock) Porsön. 1981:030E. Luleå University of Technology, Sweden.
- **Ragnar, Nilsson and Nordell, Bo (1979)** [Försök med turbulensminskning](#) (Reduction of Turbulence). Luleå University of Technology, Sweden.