**Curriculum vitae Natasa Nord**

**PERSONAL INFORMATION**

\*Family name, First name: Nord (Djuric), Natasa

\*Date of birth: *28.06.1978*

\*Sex: Female

\*Nationality: Norwegian

Researcher unique identifier(s): ORCID 0000-0003-1183-3561, ResearcherID: H-2900-2016, and Scopus Author ID: 23097358700

URL for personal web site: <http://www.ntnu.edu/employees/natasa.nord>

**EDUCATION**

*2008* PhD: Real-time supervision of building HVAC system performance, 12.06.2008.

 Faculty of Engineering Science and Technology/Department of Energy and Process Engineering/Norwegian University of Science and Technology, Norway

*2004* MSc degree: Optimization of Energy Consumption in the Building with Hydronic Heating System

 Faculty of Mechanical Engineering/Department of Thermal Engineering/University of Belgrade, Serbia

*2002* Engineering degree: The importance of the heat recuperation on energy saving in air handling units – 1997 to 2002 (5 year education)

 Faculty of Mechanical Engineering/Department of Thermal Engineering/University of Belgrade, Serbia

**CURRENT AND PREVIOUS POSITIONS**

*2019-* Professor

 Faculty of Engineering/Department of Energy and Process Engineering/Norwegian University of Science and Technology, Norway

*2012 - 2019* Associate Professor

 Faculty of Engineering/Department of Energy and Process Engineering/Norwegian University of Science and Technology, Norway

*2010 - 2012* Research Scientist

 SINTEF Energy Research/Department of Energy Processes, Norway

*2009 - 2011* Associate Professor (20 % position)

 Mechanical Engineering/HVAC Engineering/Sør-Trøndelag University College, Norway

*2008 - 2010* Postdoctoral fellow

 Faculty of Engineering Science and Technology/Department of Energy and Process Engineering/Norwegian University of Science and Technology, Norway

*2005 - 2008* PhD candidate

 Faculty of Engineering Science and Technology/Department of Energy and Process Engineering/Norwegian University of Science and Technology, Norway

*2004 - 2005* HVAC consultant

 Arhitekt, Belgrade, Serbia

**MOBILITY**

*2019 – 2019* Sabbatical leave at the company GK, Trondheim, Norway

*2018 – 2019* Mälardalen University, Sweden

Sabbatical leave within the group Future Energy Center

*2007 - 2007* Department of Building Services Engineering/Polytechnic University of Hong Kong/Hong Kong

 Award received from Norwegian University of Science and Technology, Norway

**SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS**

*2012 -*  Supervision: 2 completed PhD candidate, 1 PhD will defend March 19th, 2021, 1 co-supervised PhD candidate completed, 2 completed Postdoctoral fellows. Under supervision: 4 PhD candidates, 1 co-supervision, and 1 Postdoctoral fellow. Supervision of the visiting researchers: 5 PhD candidates from Italy, Iran, and China, and one researcher from China

*2012 -*  41 completed MSc students with 38 MSc thesis (two of them were awarded as the best students within Energy use in buildings area)

**TEACHING ACTIVITIES**

*2012 -*  Professor – Thermodynamics 1, Building energy supply, Infrastructure for energy transport, Energy planning, at Norwegian University of Science and Technology, Norway

*2009 - 2011* Associate Professor – Heating and cooling systems, at Sør-Trøndelag University College, Norway

*2008 - 2010* Teaching assistant – Building automation (master course), Simulation and optimization of thermal systems (PhD course), Modeling energy and indoor environmental systems (PhD course), at Norwegian University of Science and Technology, Norway

**ORGANISATION OF SCIENTIFIC MEETINGS**

*2010* Scientific committee and chairman at CLIMA 2010 Conference/1000/Turkey

*2011* Scientific committee and chairman at Roomvent Conference/400/Norway

*2013* Scientific committee and chairman at CLIMA 2013/1300/Czech Republic

*2014* Scientific committee at the 14th International Symposium on District Heating and Cooling/200/Sweden

*2015* 5th working meeting inIEA DHC Low Temperature DHC for Future Energy Systems/25/Norway

*2015* Scientific committee at Cold Climate 2015/700/China

*2016* Scientific committee and chairman at CLIMA 2016 Conference/700/Denmark

*2016* Scientific committee at the 15th International Symposium on District Heating and Cooling/200/South Korea

*2019* Scientific committee at CLIMA 2019 Conference/500/Romania

*2019* Scientific committee at The 11th International Conference on Applied Energy/800/Sweden

*2019* Scientific committee at Nordic ZEB Conference/200/Norway

**INSTITUTIONAL RESPONSIBILITIES**

*2019 -* Deputy head of the research group Sustainable Energy Systems

*2012 - 2014* Member of advisory board of the Study program Energy and environment

Norwegian University of Science and Technology, Norway

**COMMISSIONS OF TRUST**

**PhD evaluations**

*2021* Pre-reviewer for the PhD thesis of Constanza Saletti with the title: Development and application of innovative methods for smart control of district heating networks, University of Parma, Italy

*2020* Pre-examiner for the PhD thesis of Sonja Salo with the title Demand Response in District-heated Buildings, Aalto University, Finland

*2020* Pre-examiner for the PhD thesis of Hannela Ahvenniemi with the title Advancing sustainable transformation of cities - An analysis of city and household level actions in the pursuit of carbon-neutrality targets, Aalto University, Finland

*2020* PhD committee for the PhD defense of Nathan Zimmerman with the title: Modelling towards control of dynamic systems, Applications on RDF fired CFB Performance and DHN distribution, Mälardalen University, Sweden

*2020* PhD committee for the PhD defense of Lukas Lundström with the title: Probabilistic calibration of building energy models, For scalable and detail energy performance assessment of district heating multifamily buildings, Mälardalen University, Sweden

*2020* PhD committee for the PhD defense of Victor Fransson with the title: Prediction or power and energy use in dwelling: Addressing aspects of thermal mass and occupant behaviour, University of Lund, Sweden

*2020* Pre-reviewer for the PhD thesis of Zhonglin Chiam with the title Holistic optimization framework for the operation of urban energy systems, Nanyang Technological, University, Singapore

*2020* PhD committee for the PhD defense of Dmytro Romanchenko with the title: Importance of demand and supply integration in energy systems – Implications for buildings and district heating systems, Chalmers, Sweden

*2019* Pre-examiner for the PhD defense of Elnaz Abdollahi with the title: Modelling and optimization of combined heat and power systems, Aalto University, Finland

*2018* Pre-examiner for the PhD defense of Hassam ur Rehman with the title: Techno-economic performance of community sized solar heating systems in Nordic countries, Aalto University, Finland

*2017* Pre-examiner for the PhD defense of Benjamin Manrique Delgado with the title: The performance of heat and electricity prosumers in nearly-zero energy buildings with onsite generation systems, Aalto University, Finland

*2017* PhD committee for the PhD defense of Marcus Gustafsson, topic: Technical solutions for low-temperature heat emission in buildings, at KTH Royal Institute of Technology, Stockholm, Sweden

*2016* PhD committee for the PhD thesis of Anna Kipping, topic: Modeling hourly energy consumption in Norwegian buildings, Norwegian University of Life Science, Norway

*2016* PhD committee for the PhD thesis of Wathsala Perera, topic: Mathematical models for real-time estimation of space heating in buildings, University College of Southeast Norway, Norway

*2016* The first opponent for the PhD committee for Qian Wang, topic: Low-temperature heating in existing Swedish residential buildings – toward sustainable retrofitting, KTH Royal Institute of Technology, Stockholm, Sweden

*2015* Pre-examiner for the PhD defense of Åsa Hedman, topic: Energy-efficient city planning – the role and importance of actionable regulations, Aalto University, Finland

*2015* PhD committee for the PhD thesis of Su Huang, topic: Energy Performance Evaluation and Optimisation of Ground Source Heat Pump Systems, University of Wollongong, Australia

*2013* PhD committee for the PhD defense of Adnan Ploskic, topic: Technical solutions for low-temperature heat emission in buildings, KTH Royal Institute of Technology, Stockholm, Sweden

*2013* PhD committee for the PhD defense of Raymond Riise, topic: Energy flexible heat system for buildings by integration of in-house heat stations, Narvik University College, Narvik, Norway

*2020* Administrator for PhD defense of Ning Guo, topic: Modelling of reacting multi-phase flow for biomass gasification

*2020* Administrator for PhD defense of Igor Iliev, topic: Francis turbines for variable speed operation, Norwegian University of Science and Technology, Norway

*2019* Administrator for the PhD defense of John Clauss, topic: Energy flexibility of Norwegian residential buildings using demand response of electricity-based heating systems – A study on residential demand side flexibility, heating system control, and time varying CO2eq. intensities of electricity mix, Norwegian University of Science and Technology, Norway

*2017* Administrator for the PhD defense of Nina H. Sandberg, topic: Dynamic modelling of national dwelling stocks. Understanding phenomena of historical observed energy demand and future estimated energy savings in the Norwegian dwelling stock, Norwegian University of Science and Technology, Norway

*2016* Administrator for the PhD defense of Peng Liu, topic: Energy Recovery with Air-to-air Membrane Energy Exchanger for Ventilation Cold Climates, Norwegian University of Science and Technology, Norway

*2016* Administrator for the PhD defense of Henrik Holmberg, topic: Transient Heat Transfer in Boreholes with Application to Non-Grouted Borehold Heat Exchangers and Closed Loop Engineered Geothermal System, Norwegian University of Science and Technology, Norway

*2015* Administrator for the PhD defense of Dhruv Tapasvi, topic: Experimental and Simulation Studies on Biomass Torrefaction and Gasification, Norwegian University of Science and Technology, Norway

**Research proposal evaluations**

*2018* Assessor for the Italian research program REPRISE

*2017* Assessor for the Kazakhstan Research Council

*2015* Assessor for the Australian Research Council

*2015* Assessor for the National Research Foundation of Singapore

**Employment committees**

*2018* Appointment committee for the Associate Professor position at KTH within Fluid and Climate Theory with technical building applications, Sweden

*2018* Appointment committee for the Associate Professor position at Huazhong University of Science and Technology, Wuhan, China

*2017* Appointment committee for the unpaid lecturer position at Chalmers University, Sweden

*2014* Appointment committee for the Associate Professor/Lector position within Indoor environment, Building climatization, Ventilation, Energy use and supply, and building automation at Høgskolen i Oslo og Akershus (now OsloMet)

**Study program evaluator**

*2017* External evaluator for the BSc and MSc study program in Energy and Environment in buildings, previously University college Oslo and Akershus, now Oslo Metropoliten University, Norway

**MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

*2013 -* Member of REHVA Journal editorial board

*2007 -* Scientific reviewer for the following journals: Energy and Buildings, Building and Environment, International Journal of Refrigeration, Applied Energy, Applied Thermal Engineering, Automation in Construction, Energy Conversion and Management, Energy, Sustainable Cities and Society, Science and Technology for Built Environment, Energies, Buildings, Building Simulations

**RESEARCH INTERESTS / RESEARCH PROFILE**

Building energy supply, energy planning, district heating, lifetime commissioning, zero emission building, building energy monitoring, simulation of buildings and HVAC systems, and energy analysis.

Project leader for the following projects:

* EU2020 MSCA-IF Postdoctoral Fellowship: Real-time optimal control of the CO2 heat pump system for residential use
* Research project: Understanding behaviour of District heating systems Integrating Distributed sources, FRINATEK, The Research council of Norway
* Research project: Methods for Transparent Energy Planning of Urban Building Stocks, EnergiX, The Research council of Norway
* Several industry related project: 1) design and follow-up of the energy supply solution at military base at Ørland, Norway; 2) consideration of occupant behavior on electricity use in residential buildings; 3) testing capillary pipes for heating and cooling; 4) energy analysis of the air pressure hall for sport activities in Mo i Rana.

**MAJOR COLLABORATIONS**

* Associate Professor Gongsheng Huang, Building performance evaluation and building service control, Division of Building Science and Technology, College of Science and Engineering, City University of Hong Kong, Hong Kang, China.
* Computational Staff Scientist Tianzhen Hong, Building simulation and modeling, Simulation Research Group/Building Technology Department/Building Technology and Urban Systems Division/Lawrence Berkeley National Laboratory/USA.
* Associate Professor Shuqin Chen, Energy planning and statistical analysis of building energy use/ Department of College of Civil Engineering and Architecture/Zhejiang University/Hangzhou/China.
* Professor Stefano Paolo Corgnati, Energy planning and building performance evaluation/Department of Energy – DENERG/Politechnico de Torino/Italy.

**CAREER BREAKS**

28.06.2014 – 15.04.2015 Maternity leave.

**LIST OF PEER REVIEWED PUBLICATIONS**

**Journal publications:**

Building energy performance simulation and analysis

1. M. Rabani, H. B. Madessa, N. Nord, Achieving zero-energy building performance with thermal and visual comfort enhancement through optimization of fenestration, envelope, shading device, and energy supply system, Sustainable Energy Technologies and Assessment, Volume 44, 2021.
2. Y. Li, N. Nord, N. Zhang, [C. Zhou](https://www.sciencedirect.com/science/article/pii/S0959652620340749#%21), An ANN-based optimization approach of building energy systems: Case study of swimming pool, Journal of Cleaner Production, Volume 227, December 2020
3. Y. Li, N. Nord, Q. Xiao, T. Tereshchenko, Building heating applications with phase change material: A comprehensive review, Journal of Energy Storage, Volume 31, 2020
4. M. Rabani, H. B. Madessa, O. Mohseni, N. Nord, Minimizing delivered energy and life cycle cost using Graphical script: An office building retrofitting case, Applied Energy, Volume 268, 2020.
5. M. Rabani, H.B. Madessa, N. Nord, P. Schild, M. Mysen, Performance assessment of all-air heating in an office cubicle equipped with an active supply diffuser in a cold climate, Building and Environment, Volume 156, June 2019, Pages 123-136.
6. N. Nord, T. Tereshchenko, L. H. Qvistgaard, I. S. Tryggestad, Influence of occupant behavior and operation on performance of a residential Zero Emission Building in Norway, Energy and Buildings, Volume 159, Page 75-88, 2018.
7. H. Yoshino, T. Hong, N. Nord, IEA EBC annex 53: Total energy use in buildings—Analysis and evaluation methods, Energy and Buildings, Volume 152, Page 124-136, 2017.
8. N. Nord, Building Energy Efficiency in Cold Climates, Encyclopedia of Sustainable Technologies, 2017, Pages 149-157.
9. N. Nord, H.M. Mathisen, G. Cao, Energy cost models for air supported sports hall in cold climates considering energy efficiency. Renewable Energy, Volume 84, 2015.
10. N. Nord, L.H. Qvistgaard, G. Cao, Identifying key design parameters of the integrated energy system for a residential Zero Emission Building in Norway. Renewable Energy, Volume 87, 2015.
11. R. Moschetti, L. Mazzarella, N. Nord, An overall methodology to define reference values for building sustainability parameters. Energy and Buildings, 2015. Volume 88, p. 413 – 427.
12. N. Djuric, V. Novakovic, Correlation between standards and the lifetime commissioning, Energy and Buildings 42 (2010) p. 510-521.
13. N. Djuric, V. Novakovic, Review of possibilities and necessities for building lifetime commissioning, Renewable and Sustainable Energy Reviews 13 (2009) p. 486-492.
14. N. Djuric, V. Novakovic, F. Frydenlund, Heating system performance estimation using optimization tool and BEMS data, Energy and Buildings 40 (2008) p. 1367-1376.
15. N. Djuric, V. Novakovic, J. Holst, Z. Mitrovic, Optimization of energy consumption in buildings with heating systems considering thermal comfort by use of computer-based tools, Energy and Buildings 39 (2007) p. 471-477.

Energy planning

1. R. Zhuravchak, R. A.Pedrero, P. C. Granado, N. Nord, H. Brattebø, [Top-down spatially-explicit probabilistic estimation of building energy performance at a scale](https://www.sciencedirect.com/science/article/pii/S0378778821000700), Energy and Buildings, 2021
2. N. Nord, Y. Ding, O. Skrautvol, S. F. Eliassen, Energy Pathways for Future Norwegian Residential Building Areas, energies, Accepted, 2021.
3. S. Chen, J. Guan, N. Nord, N. Li, H. Yoshino, A study of citywide urban residential energy information system for the building energy efficiency management: a cluster model of seven typical cities in China, Energy Efficiency, 2020.
4. J. Guan, N. Nord, S. Chen, Energy planning of university campus building complex: Energy usage and coincidental analysis of individual buildings with a case study, Energy and Buildings, Volume 124, Page 99 – 111, 2016.
5. J. Guan, N. Nord, S. Chen, A Case Study of Campus Building End Use of a University in Norway. Advanced Materials Research, 2015. Volumes 1073-1076, p. 1259-1262.
6. T. Tereshchenko, N. Nord, Uncertainty of the allocation factors of heat and electricity production of combined cycle power plant, Applied Thermal Engineering, 2015. Volume 76, p. 410 - 422.
7. N. Nord, S.F. Sjøthun, Success factors of energy efficiency measures in buildings in Norway. Energy and Buildings, 2014. Volume 76: p. 476-487.

District heating and integrated energy supply systems simulation and analysis

1. N. Nord, M. Shakerin, T. Tereshchenko, V. Verda, R. Borchiellini, Data informed physical models for district heating grids with distributed heat sources to understand thermal and hydraulic aspects, Energy, Volume 222, 2021.
2. H. Li, J. Hou, T. Hong, Y. Ding, N. Nord, Energy, economic, and environmental analysis of integration of thermal energy storage into district heating systems using waste heat from data centres, Energy, Volume 219, 2021.
3. D. Rohde, B.R. Knudsen, T. Andresen, N. Nord, Optimization-based control of an integrated heating and cooling system for a building complex, Energy, Volume 193, 2020.
4. Y. Li, N. Nord, H. Wu, G. Huang, Study on integration of air-source heat pumps, solar heat collectors and PCM tanks for outdoor swimming pools for winter application, *Under review for Energy, 2019.*
5. D. Rohde, T. Andresen, N. Nord, Analysis of an integrated heating and cooling system for a building complex with focus on long–term thermal storage, Applied Thermal Engineering, Volume 145, Pages 791-803, 2018.
6. N. Nord, [E. K. Løve Nielsen,,H. Kauko](https://www.sciencedirect.com/science/article/pii/S0360544218305036#%21), [T. Tereshchenko](https://www.sciencedirect.com/science/article/pii/S0360544218305036#%21), Challenges and potentials for low-temperature district heating implementation in Norway, Energy, Volume 151, pages 889 – 902, 2018.
7. H. Kauko, [K. H. Kvalsvik, D. Rohde,](http://www.sciencedirect.com/science/article/pii/S036054421731263X#%21) N. Nord, Å. Utne, Dynamic modeling of local district heating grids with prosumers: A case study for Norway, Energy, Volume 151, pages 261 – 271, 2018.
8. H. Kauko, [K. H. Kvalsvik,](http://www.sciencedirect.com/science/article/pii/S036054421731263X%22%20%5Cl%20%22%21) [D. Rohde,](http://www.sciencedirect.com/science/article/pii/S036054421731263X%22%20%5Cl%20%22%21) [A. Hafner,](http://www.sciencedirect.com/science/article/pii/S036054421731263X#%21) N. Nord, Dynamic modelling of local low-temperature heating grids: A case study for Norway, Energy, Volume 139, pages 289 - 297, 2017.
9. T. Tereshchenko, N. Nord, Energy planning of district heating for future building stock based on renewable energies and increasing supply flexibility, Energy, Volume 112, Page 1227-1244, 2016.
10. P. Li, N. Nord, I.S. Ertesvåg, Z. Ge, Z. Yang, Y. Yang, Integrated multiscale simulation of CHP based district heating system. Energy Conversion and Management, Volume 106, 2015.
11. T. Tereshchenko, N. Nord, Implementation of CCPP for energy supply of future building stock, Applied Energy, Volume 155, 1 October 2015, Pages 753-765

Big data applications for energy in buildings and district heating

1. D. Ivanko, Å.L. Sørensen., N. Nord, Splitting measurements of the total heat demand in a hotel into domestic hot water and space heating heat use, Volume 219, 15 March 2021.
2. 31. D. Ivanko, Å.L. Sørensen., Walnum, N. Nord, Selecting the model and influencing variables for DHW heat use prediction in hotels in Norway, Energy and Buildings, September 2020.
3. D. Ivanko, H.T. Walnum, N. Nord, Development and analysis of hourly DHW heat use profiles in nursing homes in Norway, Energy and Building, Volume 222, 2020.
4. S. Farouq, S. Byttner, M.R. Bouguelia, N Nord*,* and H. Gadd, Large scale monitoring of operationally diverse district heating substations: A reference-group based approach, Engineering Application of Artificial Intelligence, Volume 90, 2020.
5. Z. Ma, R. Yan, N. Nord, A variation focused cluster analysis strategy to identify typical daily heating load profiles of higher education buildings, Energy, Volume 134, Page 90-120, 2017.
6. Z. Ma, R. Yan, K. Li, N. Nord, Building energy performance assessment using volatility change based symbolic transformation and hierarchical clustering, Energy and Buildings, May 2018, Volume 166, Pages 284-295.
7. N. Djuric, V. Novakovic, Identifying important variables of energy use in low energy office building by using multivariate analysis. Energy and Buildings 2012, Volume 45. p. 91-98.
8. N. Djuric, V. Novakovic, F. Frydenlund, Improved measurements for better decision on heat recovery solutions with heat pumps. International journal of refrigeration 2012; Volume 35.(6) p. 1558-1569.
9. N. Djuric, V. Novakovic, G. Huang, Lifetime Commissioning as a Tool to Achieve Energy-Efficient Solutions, International Journal of Energy Research, 2012; Volume 36.(9) p. 987-999.
10. N. Djuric, G. Huang, V. Novakovic, Data Fusion Heat Pump Performance Estimation, Energy and Buildings (2010), Volume 43.(2-3) p. 621-630.

**Conference peer reviewed articles:**

1. M. Shakerin, N. Nord, Analysis of district heating systems integrating distributed sources, The 11th International Conference on Applied Energy, August 12-15 2019, Västerås, Sweden.
2. H. Li, J. Jou, N. Nord, Using thermal storages to solve the mismatch between waste heat feed-in and heat demand: a case study of a district heating system of A university campus, The 11th International Conference on Applied Energy, August 12-15 2019, Västerås, Sweden.
3. Y. Ding, H. Brattebø, N. Nord, Energy analysis and energy planning for kindergartens based on data analysis, The 11th International Conference on Applied Energy, August 12-15 2019, Västerås, Sweden.
4. J. Hou, H. Li, N. Nord, Optimal control of secondary side supply water temperature for substation in district heating systems. E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
5. D. Ivanko, N. Nord, Å.L. Sørensen, T.S. Wester Plesser, H.T. Walnum, I. Sartori, Identifying typical hourly DHW energy use profiles in a hotel in Norway by using statistical methods, E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
6. H. Li, N. Nord, Operation strategies to achieve low supply and return temperature in district heating system, E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
7. M. Rabani, H.B. Madessa, N. Nord, P. Schild, Performance analysis of an active diffuser in mixing ventilation for cell office by using numerical approach, E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
8. T. Tereshchenko, D. Ivanko, N. Nord, I. Sartori, Analysis of energy signatures and planning of heating and domestic hot water energy use in buildings in Norway, E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
9. R. Zhuravchak, N. Nord, H. Brattebø, Control strategy for battery-supported photovoltaic systems aimed at peak load reduction, E3S Web of Conferences 2019; Volum 111, 13th REHVA World Congress, 26-29 May 2016, Bucharest, Romania.
10. N. Nord, O. Skrautvol, S. Fossmo Eliassen, T. Tereshchenko, Energy Pathways for Future Residential Building Areas in Norway. I: Cold Climate HVAC 2018 - Sustainable Buildings in Cold Climates. Springer 2019 ISBN 978-3-030-00662-4. s. 505-517, 12 – 15 March, Kiruna, Sweden.
11. H. Li, N. Nord, Transition to the 4th generation district heating - possibilities, bottlenecks, and challenges, Energy Procedia, Volume 149, September 2018, Pages 483-498, 16th International Symposium on District Heating and Cooling, DHC2018, 9–12 September 2018, Hamburg, Germany.
12. N. Nord, D. Schmidt, A.M. Dagmar Kallert, Necessary Measures to Include more Distributed Renewable Energy Sources into District Heating System, Energy Procedia, Volume 116, June 2017, Pages 48-57, 15th International Symposium on District Heating and Cooling, South Korea.
13. D. Schmidt, A.M. Dagmar Kallert, M. Blesl, S. Svendsen, H. Li, N. Nord, K. Sipilä, Low Temperature District Heating for Future Energy Systems, Energy Procedia, Volume 116, June 2017, Pages 26-38, 15th International Symposium on District Heating and Cooling, South Korea.
14. N. Nord, M. E. Ingebretsen, I. S. Tryggestad, Possibilities for Transition of Existing Residential Buildings to Low Temperature District Heating System in Norway, CLIMA 2016 - 12th REHVA World Congress, 22-25 May 2016, Aalborg, Denmark, ISBN (electronic) - 87-91606-28-4 (vol 3), 87-91606-36-5 (set).
15. N. Nord, L. H. Qvistgaard, I. S. Tryggestad, Influence of occupant behavior and operation on performance of a residential Zero Emission Building in Norway, CLIMA 2016 - 12th REHVA World Congress, 22-25 May 2016, Aalborg, Denmark, ISBN (electronic) - 87-91606-29-2 (vol. 4), 87-91606-36-5 (set).
16. D. Rohde, T. Andresen, N. Nord, Interaction Between a Building Complex with an Integrated Thermal Energy System and a District Heating System, CLIMA 2016 - 12th REHVA World Congress, 22-25 May 2016, Aalborg, Denmark, ISBN (electronic) - 87-91606-28-4 (vol 3), 87-91606-36-5 (set).
17. H. Kauko, O. Stavset, M. Bantle, N. Nord, Energy use in Norwegian non-residential buildings: building regulations, calculations and measurements, China, The 8th international cold climate HVAC Conference, 2015 2015 (ISBN 978-0-9969095-0-1) 855 s.
18. T. Tereshchenko, N. Nord, Importance of Increased Knowledge on Reliability of District Heating Pipes, Procedia Engineering, Volume 146, 2016, Pages 415–423, The 8th international cold climate HVAC Conference.
19. D. Rohde, M. Bantle, T. Andresen, N. Nord, , Documentation of an integrated thermal energy system for a building complex.in Proceedings of the 24th International Congress of Refrigeration, International Institute of Refrigeration 2015, ISBN 978-2-36215-012-8. s.
20. T. Tereshchenko, N. Nord, The allocation factors of heat and electricity production of combined cycle power plant. 9th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2014), 2014, Venice – Istanbul.
21. D. Schmidt, A.M. Kallert, M. Blesl, S. Svendsen, N. Nord, K. Sipil, Low Temperature District Heating for Future Energy Systems, In Proceedings from the 14th International Symposium on District Heating and Cooling. Stockholm, SWEDEN: Svensk fjernvarme 2014 ISBN 978-91-85775-24-8. p. 8-15.
22. N. Nord, J. Wall, Energy Supply Solution for Low-Energy Commercial Buildings in Cold Climates. In Proceedings of CLIMA 2013, Prague, Czech Republic, REHVA member association 2013, ISBN 978-80-260-4001-9. p. 293-302.
23. N. Nord, V. Novakovic, F. Frydenlund, Performance estimation and documentation of an integrated energy supply solution. Renewable Energy Research Conference - Technoport 2012; April 16 – 18, 2012.
24. N. Djuric, H.M. Mathisen, Freeze protection method in ventilation system using two hydronic circuits, Roomvent 2011, Tapir Akademisk Forlag 2011, ISBN 9788251928120.
25. N. Djuric,V. Novakovic, F. Frydenlund, B. Handal,Lifetime Commissioning as a Tool for Improving Heat Recovery Using Heat Pumps, In Proceedings of the 23rd International Congress of Refrigeration, International Institute of Refrigeration 2011, ISBN 9782913149892.
26. B. Malvik, H.M. Mathisen, N. Djuric,F. Frydenlund, Air to air residential heat pumps - impacts on indoor climate, In Proceedings of the 23rd International Congress of Refrigeration, International Institute of Refrigeration 2011, ISBN 9782913149892.
27. N. Djuric, V. Novakovic, Lifetime Commissioning as a Tool to Achieve Efficient Building Operation, 41st International congress on Heating, refrigerating and air-conditioning, in Conference proceedings ISBN 978-86-81505-55-7, Belgrade, Serbia, December 1-3. 2010.
28. M. Lalovic, N. Djuric, V. Novakovic, B. Zivkovic, Assessment of Risk of Increased Energy Consumption due to climate change and change of building purpose, 41st International congress on Heating, refrigerating and air-conditioning, in Conference proceedings ISBN 978-86-81505-55-7, Belgrade, Serbia, December 1-3. 2010.
29. N. Djuric, V. Novakovic, Efficient Building Operation as a Tool to Achieve Zero Emission Building, Renewable Energy Research Conference 2010 - Zero Emission Buildings. Tapir Akademisk Forlag 2010, ISBN 978-82-519-2623-2. s. 27-38
30. N. Djuric, V. Novakovic, F. Frydenlund, Test Results of Norwegian Lifetime Commissioning Procedures, Proceedings of the Clima 2010 Sustainable Energy Use in Buildings, Antalya, Turkey, REHVA, 2010.
31. N. Djuric, V. Novakovic, FDD algorithm for an AHU reverse-return system, In Proceedings of the 8th International Conference for Enhanced Building Operation – ICEBO 2008, Vol. 4.4, Berlin, Germany, October 20-21 2008.
32. N. Djuric, F. Frydenlund, V. Novakovic, J. Holst, Preliminary Step in Collecting Data for Commissioning of Existing Buildings (Characterization of buildings, systems and problems), In Proceedings of the Clima 2007 WellBeing Indoors, Vol.3, pp. 541-548, Helsinki, REHVA, 2007.
33. N. Djuric, V. Novakovic, F. Frydenlund, Existing building commissioning using computer based tools, In Proceedings of the Clima 2007 WellBeing Indoors, Vol. 3, pp. 549-556, Helsinki, REHVA, 2007.
34. N. Djuric, V. Novakovic, F. Frydenlund, Existing building commissioning using computer based tools, presentation, The 6th International Conference for Enhanced Building Operation – ICEBO 2006, Vol. VI-4-3, Shenzhen, China, November 6-8 2006.
35. N. Djuric, V. Novakovic, J. Holst, Optimizing the building envelope and HVAC system for an inpatient room by using simulation and optimization tools, The 5th International Conference on Cold Climate Heating, Ventilation and Air-Conditioning, Moscow, Russia, May 21-24, 2006.
36. V. Novakovic, N. Djuric, J. Holst, F. Frydenlund, Norwegian national program for lifetime commissioning and energy efficient operation of buildings, The 6th International Conference for Enhanced Building Operation – ICEBO 2006, Shenzhen, China, November 6-8 2006.
37. N. Djuric, V. Novakovic, J. Holst, Optimization of energy consumption in building with hydronic heating system by use of computer based tools, The 8th REHVA World Congress, Clima 2005, Lausanne, Swiss, 2005.
38. N. Djuric, *EnergyPlus* and *GenOpt* in thermotechnical installations design, Scientific and Professional Journal for Air-Conditioning, Heating and Refrigeration, Serbia, YUISSN 350-1426 (2005) 34:3, pp. 25-28, 2005.
39. N. Djuric, V. Novakovic V., J. Holst, Optimization of the design for an inpatient room using simulation and optimization tools, Proceedings of 36th congress of Air – conditioning, Heating and Refrigeration – KGH (in Serbian), 31 November – 2 December 2005, pp. 91-97.
40. N. Djuric; B. Zivkovic, The energetic analysis of applying heat recuperation in air – conditioning systems, Scientific and Professional Journal for Air-Conditioning, Heating and Refrigeration, Serbia YUISSN 0350-1426 (2003) 32:3, pp. 47-51.
41. N. Djuric; B. Zivkovic, Annual energy conservation in the air – conditioning systems by applying recuperative heat – exchanger, Proceedings of 33rd congress of Air – conditioning, Heating and Refrigeration – KGH (in Serbian), Beograd, 4 - 6 December 2002, pp. 83 -91.

**LIST OF POPULAR SCIENCE AND USER ORIENTED DISSEMINATION**

1. N. Nord, Sommerprat med Natasa Nord, Norsk VVS blad, Nemitek, <https://nemitek.no/sommerprat-med-natasa-nord/> 2019
2. N. Nord, H. Brattebø, N. Holck Sandberg, Forsking på metoder for energiplanlegging for bygningar i byer, Norsk VVS blad, september 2018
3. N. Nord, Testet kapillærrørsystem i ZEB Test Cell, Norsk VVS blad, juni 2018
4. N. Nord, Forsker på fjernvarme med fleire kilder, Norsk VVS blad, juni 2018
5. N. Nord, Fra masteroppgave til artikkel i Energy!, NTNU TechZone, <https://www.ntnutechzone.no/author/natasa-nord/>, 2018
6. N. Nord, Grønnere flystasjon på Ørlandet, Gemini, <https://gemini.no/kortnytt/gronnere-flystasjon-pa-orlandet/>, 2016
7. N. Nord, Fjerde generasjons fjernvarme: hva forsker vi på?, NTNU TechZone, <https://www.ntnutechzone.no/2015/06/fjerde-generasjons-fjernvarme-hva-forsker-vi-pa/>, 2015
8. N. Nord, Five questions about building energy regulations, Teknisk ukeblad 2015 - in Norwegian.
9. N. Nord, R.E. Aasen, Write a super master thesis about waste heat in hospitals, VVS forum 2014, <http://www.vvsforum.no/artikkel/8542/8542.html#.VT3-wZMygSK> – in Norwegian.
10. N. Nord, R.E. Aasen, Write a super master thesis about waste heat in hospitals, Universitetsavisa, 2014, <http://www.universitetsavisa.no/notiser/article40327.ece> - in Norwegian.
11. N. Nord, R.E. Aasen, Estimation and use of waste heat, Norsk VVS, 2014, <http://www.norskvvs.no/article/20140505/NYHETER/140509990> - in Norwegian.
12. N. Nord, J. Wall, Heat pump options for low energy office buildings in cold climate. REHVA European HVAC Journal, 2013; Volum 50.(5) s. 33-36 - – in English.
13. N. Nord, 900 participants at CLIMA 2013, p47, Norsk VVS - NORVAC (ISSN 0029-2265), 2013 – in Norwegian.
14. N. Djuric, V. Novakovic, F. Frydenlund, Electricity use in two low energy office buildings in Norway. REHVA European HVAC Journal, 2012; Volume 49.(1) p. 30-34 – in English.
15. N. Djuric, R.Sandgrind, G. Walstad, Documentation of energy plant at BD Klimasenter Ringdalskogen, VVS forum 2012, <http://www.vvsforum.no/artikkel/5680/dokumentering-av-energianlegg-bd-klimasenter-ringdalskogen.html> – in Norwegian.
16. N. Djuric, Lifetime commissioning for quality control of building performance and energy aims, VVS forum 2011, <http://www.vvsforum.no/artikkel/4057/4057.html> – in Norwegian.
17. N. Djuric, V. Novakovic, F. Frydenlund, Lifetime commissioning as a tool, Norsk VVS, number 09, 2010, [http://norskvvs.no/article/20101013/NYHETER/101019992/1002/Innsikt&ExpNodes=1002](http://norskvvs.no/article/20101013/NYHETER/101019992/1002/Innsikt%26ExpNodes%3D1002) - – in Norwegian.