

Christian Veje
Mærsk Mc-Kinney Møller Institutet
SDU Center for Energy Informatics
Postadresse:
Campusvej 55
5230
Odense M
Danmark
E-mail: veje@mmmi.sdu.dk
Mobil: 20585161
Telefon: 65501607



Ansættelse

Vice sektionsleder, professor

Mærsk Mc-Kinney Møller Institutet
Syddansk Universitet
Odense M
1. jan. 2015 → present

Vice sektionsleder, professor

SDU Center for Energy Informatics
Syddansk Universitet
Odense M
1. jan. 1998 → present

Publikationer

A Digital Twin Framework for Improving Energy Efficiency and Occupant Comfort in Public and Commercial Buildings

Clausen, A., Arendt, K., Johansen, A., Sangogboye, F. C., Kjærgaard, M. B., Veje, C. & Jørgensen, B. N., 26. apr. 2021, (Accepteret/In press) I: Energy Informatics.

Greenhouse Industry 4.0 – Digital Twin Technology for Commercial Greenhouses

Howard, D. A., Ma, Z., Veje, C., Clausen, A., Aaslyng, J. P. M. & Jørgensen, B. N., 26. apr. 2021, (Accepteret/In press) I: Energy Informatics.

Flexible Block Offers and A Three-stage Market Clearing Method for Distribution-level Electricity Markets with Grid Limits

Huang, S., Zhao, Y., Filonenko, K., Wang, Y., Xiong, T. & Veje, C. T., sep. 2021, I: International Journal of Electrical Power & Energy Systems. 130, 106985.

Indoor Climate Modelling and Optimal Planning With Respect To Electricity Prices

Huang, S., Filonenko, K., Zhao, Y., Yang, T., Xiong, T. & Veje, C., 2021, (Accepteret/In press) *IEEE PES General Meeting*. IEEE

Implementation and performance analysis of a multi-energy building emulator

Yang, T., Filonenko, K., Arendt, K. & Veje, C., 29. okt. 2020, *2020 6th IEEE International Energy Conference (ENERGYCon)*. IEEE, s. 451-456

Modelica implementation of phase change material ventilation unit

Filonenko, K., Ljungdahl, V. B., Yang, T. & Veje, C., 29. okt. 2020, *2020 6th IEEE International Energy Conference (ENERGYCon)*. IEEE, s. 464-467

Methodology for Evaluation of District Heating Network Efficiency

Howard, D. A., Filonenko, K., Busk, F. S. & Veje, C., 24. aug. 2020, I: E3S Web of Conferences. 186, 9 s., 01006.

Dynamic Energy Model-Based Automatic Building Performance Testing for Continuous Commissioning

Jradi, M., Liu, N., Johansen, A., Arendt, K., Mattera, C. G., Kjærgaard, M. B., Veje, C. & Jørgensen, B. N., 2020, *Proceedings of building simulation 2019: 16th IBPSA International conference and exhibition*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, s. 822-829 (Proceedings of the International Building Performance Simulation Association).

Experimental and numerical investigation of a PCM module for ventilation systems

Ljungdahl, V., Elabshihy, K., Kieseritzky, E., Pawelz, F., Jradi, M., Dallaire, J. & Veje, C., 2020, *33rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2020)*. Yokoyama, R. & Amano, Y. (red.). ECOS, Bind 1. s. 912-922

Modeling and Simulation of a Heating Mini-Grid for a Block of Buildings

Filonenko, K., Arendt, K., Jradi, M., Andersen, S. & Veje, C., 2020, *Proceedings of Building Simulation 2019: 16th Conference of*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, Bind 16. s. 1971-1978 (Proceedings of the International Building Performance Simulation Association, Bind 16).

Modeling future heat pump integration in a power radial

Filonenko, K., Copeland, M., Jespersen, K. & Veje, C., 2020, *Proceedings of the American Modelica Conference 2020, Boulder, Colorado, USA, March 23-25, 2020: Linköping Electronic Conference Proceedings*. Tiller, M., Tummescheit, H., Vanfretti, L., Laughman, C. & Wetter, M. (red.). Modelica Association and Linköping University Electronic Press, Bind 169. s. 130-138 (Linköping Electronic Conference Proceedings).

MShoot: an Open Source Framework for Multiple Shooting MPC in Buildings

Arendt, K. & Veje, C., 2020, *Proceedings of Building Simulation 2019: 16th IBPSA International Conference and Exhibition*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, s. 2787-2794 (Proceedings of the International Building Performance Simulation Association, Bind 16).

Multi-Objective Model Predictive Control Framework for Buildings

Arendt, K., Clausen, A., Mattera, C. G., Jradi, M., Johansen, A., Veje, C., Kjærgaard, M. B. & Jørgensen, B. N., 2020, *Proceedings of building simulation 2019: 16th IBPSA International conference and exhibition*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, s. 2779-2786 (Proceedings of the International Building Performance Simulation Association).

Numerical Simulation of a Magnetocaloric Heat Pump for Domestic Hot Water Production in Residential Buildings

Johra, H., Filonenko, K., Marszal-Pomianowska, A. J., Heiselberg, P. K., Veje, C., Dall'Olio, S., Engelbrecht, K. & Bahl, C. R. H., 2020, *Proceedings of Building Simulation 2019: 16th Conference of IBPSA*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, (Proceedings of the International Building Performance Simulation Association).

Object-oriented modeling and performance evaluation of a PCM-based ventilation system

Yang, T., Ljungdahl, V. B., Jradi, M., Filonenko, K., Kieseritzky, E., Pawelz, F. & Veje, C., 2020, *33rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2020)*. Yokoyama, R. & Amano, Y. (red.). ECOS, Bind 1. s. 1584-1594

Towards a 100% renewable island power system with energy storage: modelling, optimization, and cost analysis

Huang, S., Limousin, E., Filonenko, K. & Veje, C., 2020, *33rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2020)*. Yokoyama, R. & Amano, Y. (red.). ECOS, Bind 1. s. 308-319

Verification of multi-energy system components for renewable integration

Filonenko, K., Gammelgaard, E., Hansen, D., Buck, J. & Veje, C., 2020, *2020 6th IEEE International Energy Conference (ENERGYCon)*. IEEE, s. 290-295

Integration of a magnetocaloric heat pump in an energy flexible residential building

Johra, H., Filonenko, K., Heiselberg, P., Veje, C., Dall'Olio, S., Engelbrecht, K. & Bahl, C., jun. 2019, I: *Renewable Energy*. 136, s. 115-126

Practical factors of envelope model setup and their effects on the performance of model predictive control for building heating, ventilating, and air conditioning systems

Blum, D. H., Arendt, K., Rivalin, L., Piette, M. A., Wetter, M. & Veje, C. T., 15. feb. 2019, I: *Applied Energy*. 236, s. 410-425

A Review of the Convexification Methods for AC Optimal Power Flow

Huang, S., Filonenko, K. & Veje, C., 2019, *2019 IEEE Electrical Power and Energy Conference (EPEC)*. IEEE, 6 s.

An experimental approach towards increasing mechanical durability of extruded fish feed in the drying process

Haubjerg, A. F. & Veje, C., 2019, I: *Drying Technology*. 37, 11, s. 1418-1426

Comparison of two simulation tools for district heating applications

Filonenko, K., Howard, D. A., Buck, J. & Veje, C., 2019, *Proceedings of the 9th International Energy Conference REMOO*. 10 s.

Modeling of thermal district heating network with common sources and decentralized heat production

Filonenko, K., Arendt, K. & Veje, C., 2019, *Proceedings of the 9th International Energy Conference REMOO*. 10 s. 02.013

NeGeV: next generation energy efficient ventilation system using phase change materials

Veje, C., Jradi, M., Lund, I., Hansen, T., Kamuk, K., Kieseritzky, E. & Nicolaisen, C. G., 2019, I: *Energy Informatics*. 2, 12 s., 2.

NeGeV: Phase Change Materials for Innovative Cooling Solutions

Ljungdahl, V. B., Jradi, M., Kieseritzky, E., Rasmussen, M. H., Kamuk, K. & Veje, C., 2019, I: *REHVA Journal*. 56, 6, s. 42-47

Room-level occupant counts and environmental quality from heterogeneous sensing modalities in a smart building

Schwee, J. H., Johansen, A., Jørgensen, B. N., Kjærgaard, M. B., Mattera, C. G., Sangogboye, F. C. & Veje, C., 2019, I: *Scientific Data*. 6, 11 s., 287.

Teaching electrical system modelling with applications in energy systems

Filonenko, K. & Veje, C., 2019.

The impact of occupancy resolution on the accuracy of building energy performance simulation

Sangogboye, F. C., Arendt, K., Jradi, M., Veje, C., Kjærgaard, M. B. & Jørgensen, B. N., 7. nov. 2018, *Proceedings of the 5th Conference on Systems for Built Environments*. Ramachandran, G. S. & Batra, N. (red.). Association for Computing Machinery, s. 103-106

Room-level Occupant Counts, Airflow and CO2 Data from an Office Building

Arendt, K., Johansen, A., Jørgensen, B. N., Kjærgaard, M. B., Mattera, C. G., Sangogboye, F. C., Schwee, J. H. & Veje, C., 4. nov. 2018, *Proceedings of the First Workshop on Data Acquisition To Analysis*. Association for Computing Machinery, s. 13-14

ModestPy: An Open-Source Python Tool for Parameter Estimation in Functional Mock-up Units

Arendt, K., Jradi, M., Wetter, M. & Veje, C., okt. 2018, *Proceedings of the 1st American Modelica Conference*. Tiller, M., Tummescheit, H. & Vanfretti, L. (red.). Modelica Association and Linköping University Electronic Press, s. 121-130 (Linköping Electronic Conference Proceedings, Bind 154).

Comparative Analysis of White-, Gray- and Black-box Models for Thermal Simulation of Indoor Environment: Teaching Building Case Study

Arendt, K., Jradi, M., Shaker, H. R. & Veje, C., sep. 2018, *Proceedings of the 2018 Building Performance Modeling Conference and SimBuild co-organized by ASHRAE and IBPSA-USA*. ASHRAE, s. 173-180

Deep Energy Retrofit vs Improving Building Intelligence: Danish Case Study

Jradi, M., Veje, C. & Jørgensen, B. N., sep. 2018, *Proceedings of the 2018 Building Performance Modeling Conference and SimBuild co-organized by ASHRAE and IBPSA-USA*. ASHRAE, s. 470-477 65

Technical and Economic Assessment of a Danish Public School Energy Renovation using Dynamic Energy Performance Model

Jradi, M., Veje, C. & Jørgensen, B. N., sep. 2018, *Proceedings of the 2018 Building Performance Modeling Conference and SimBuild co-organized by ASHRAE and IBPSA-USA*. ASHRAE, s. 478-485

Integration of a magnetocaloric heat pump in a low-energy residential building

Johra, H., Filonenko, K., Heiselberg, P. K., Veje, C., Lei, T., Dallolio, S., Engelbrecht, K. & Bahl, C., aug. 2018, I: *Building Simulation*. 11, 4, s. 753-763

A Dynamic Energy Performance-Driven Approach for Assessment of Buildings Energy Renovation – Danish Case Studies

Jradi, M., Veje, C. & Jørgensen, B. N., 2018, I: *Energy and Buildings*. 158, s. 62-76

Active magnetic regenerators implemented as a magnetocaloric heat pump for residential buildings

Johra, H., Filonenko, K., Heiselberg, P. K., Veje, C., Dallolio, S., Engelbrecht, K. & Bahl, C. R. H., 2018, *8th International Conference on Caloric Cooling (Thermag VIII). Proceedings*. International Institute of Refrigeration, s. 21-26 0002. (Thermag = IIR Conference on Magnetic Refrigeration at Room Temperature, Bind 8).

Dynamic Energy Performance-Driven Approach for Renovation Assessment of the Danish Public School Ejerslykkeskolen

Jradi, M., Veje, C. & Jørgensen, B. N., 2018, *Proceedings of 31st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems*. Teixeira, J. C. (red.). 13 s. 252

ObepME: An online building energy performance monitoring and evaluation tool to reduce energy performance gaps

Jradi, M., Arendt, K., Sangogboye, F. C., Mattered, C. G., Markoska, E., Kjærgaard, M. B., Veje, C. T. & Jørgensen, B. N., 2018, I: *Energy and Buildings*. 166, s. 196-209

Report on Induction Tempering

Ivanov, D., Hanche-Olsen, H., Petzoldt, T., Roper, I., Roy, T. & Veje, C., 2018, 10 s.

Simulation of a magnetocaloric heating network

Filonenko, K., Johra, H., Dallolio, S., Engelbrecht, K., Heiselberg, P. K., Bahl, C. R. H. & Veje, C., 2018, *8th International Conference on Caloric Cooling (Thermag VIII). Proceedings*. International Institute of Refrigeration, s. 15-20 0001. (Thermag = IIR Conference on Magnetic Refrigeration at Room Temperature, Bind 8).

Techno-economic and Environmental Analysis of an Innovative ORC-based Micro-scale CCHP System under Mediterranean Conditions

Jradi, M., Veje, C. & Riffat, S., 2018, *Proceedings of 31st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems*. Teixeira, J. C. (red.). 255

Numerical routine for magnetic heat pump cascading

Filonenko, K., Lei, T., Engelbrecht, K., Bahl, C. & Veje, C., 2. okt. 2017. 1 s.

A World Class Energy Efficient University Building by Danish 2020 Standards

Jradi, M., Sangogboye, F. C., Mattered, C. G., Kjærgaard, M. B., Veje, C. & Jørgensen, B. N., okt. 2017, I: *Energy Procedia*. 132, s. 21-26

Modelling Li-ion cell thermal runaway triggered by an internal short circuit device using an efficiency factor and Arrhenius formulations

Coman, P. T., Darcy, E., Veje, C. & White, R., 28. jan. 2017, I: *Journal of The Electrochemical Society*. 164, 4, s. A587-A593

Consistent phase-change modeling for CO₂-based heat mining operation

Singh, A. K. & Veje, C., 2017, I: *The Journal of Supercritical Fluids*. 123, s. 58-66

Deep energy renovation of the Mærsk office building in Denmark using a holistic design approach

Jradi, M., Veje, C. & Jørgensen, B. N., 2017, I: *Energy and Buildings*. 151, s. 306-319

Dynamic Model-Driven Energy Retrofit of Bøgevangen and Runevej Daycare Centers in Aarhus

Jradi, M., Lecuelle, P., Madsen, K. M. H., Veje, C. & Jørgensen, B. N., 2017, I: *Energy Procedia*. 132, s. 975-981

Modeling Vaporization, Gas Generation and Venting in Li-Ion Battery Cells with a Dimethyl Carbonate Electrolyte

Coman, P. T., Mátéfi-Tempfli, S., Veje, C. & White, R., 2017, I: *Journal of The Electrochemical Society*. 164, 9, s. A1858-A1865

Modelling the thermal properties of large diameter fibre ropes

Oland, E., Bossolini, E., Nielsen, O. W., Sørensen, M. P. & Veje, C., 2017, *2017 OIPEEC Conference - Rope - Present and Future*. Dohm, M. A. R. (red.).

Numerical analysis of heat propagation in a battery pack using a novel technology for triggering thermal runaway

Coman, P. T., Darcy, E., Veje, C. & White, R., 2017, I: *Applied Energy*. 203, s. 189-200

Performance analysis of a soil-based thermal energy storage system using solar-driven air-source heat pump for Danish buildings sector

Jradi, M., Veje, C. & Jørgensen, B. N., 2017, I: *Applied Thermal Engineering*. 114, s. 360-373

Performance comparison of occupancy count estimation and prediction with common versus dedicated sensors for building model predictive control

Sangogboye, F. C., Arendt, K., Singh, A. K., Veje, C., Kjærgaard, M. B. & Jørgensen, B. N., 2017, I: *Building Simulation*. 10, 6, s. 829-843

Study of geometries of active magnetic regenerators for room temperature magnetocaloric refrigeration

Lei, T., Engelbrecht, K., Nielsen, K. R. & Veje, C. T., 2017, I: *Applied Thermal Engineering*. 111, s. 1232-1243

A Building Model Framework for a Genetic Algorithm Multi-objective Model Predictive Control

Arendt, K., Ionesi, A., Jradi, M., Singh, A. K., Kjærgaard, M. B., Veje, C. & Jørgensen, B. N., 2016, *CLIMA 2016: Proceedings of the 12th REHVA World Congress*. Heiselberg, P. K. (red.). Aalborg: Aalborg University. Department of Civil Engineering, Bind 8. 12 s. 186

A Cascading Model of An Active Magnetic Regenerator System

Tahavori, M., Filonenko, K., Veje, C., Lei, T., Engelbrecht, K. & Bahl, C., 2016, *Proceedings of the 7th International Conference on Magnetic Refrigeration at Room Temperature*. International Institute of Refrigeration, 4 s. (Science et Technique du Froid).

Demand Response in Commercial Buildings with an Assessable Impact on Occupant Comfort

Kjærgaard, M. B., Arendt, K., Clausen, A., Johansen, A., Jradi, M., Jørgensen, B. N., Nellemann, P., Sangogboye, F. C., Veje, C. & Wollsen, M. G., 2016, *Proceedings of the 7th IEEE International Conference on Smart Grid Communications*. IEEE, 6 s.

Modelling Venting and Pressure Build-up in a 18650 LCO Cell during Thermal Runaway (ABSTRACT)

Coman, P. T., Veje, C., White, R. & Rayman, S., 2016.

Optimization of Multi-layer Active Magnetic Regenerator towards Compact and Efficient Refrigeration

Lei, T., Engelbrecht, K., Nielsen, K. K., Bez, H. N., Veje, C. & Bahl, C., 2016, *Proceedings of the 29th International Conference on Efficiency, Cost, Optimisation, Simulation and Environmental Impact of Energy Systems*. Kitanovski, A. & Poredoš, A. (red.). University of Ljubljana

Thermal properties of Fiber ropes: Industrial Problem, ESGI 2016, DTU
Bossolini, E., Nielsen, O. W., Oland, E., Sørensen, M. P. & Veje, C., 2016

Towards Energy Efficient Office Buildings in Denmark: The Maersk Building Case Study
Jradi, M., Veje, C. & Jørgensen, B. N., 2016, *Proceedings of the 29th International Conference on Efficiency, Cost, Optimisation, Simulation and Environmental Impact of Energy Systems*. Kitanovski, A. & Poredoš, A. (red.). University of Ljubljana

Simulation of an Adaptive Heat Curve for Automatic optimization of District Heating Installation
Ionesi, A., Jradi, M., Thorsen, J. E. & Veje, C., 7. dec. 2015, *Proceedings of 14th International Conference of the International Building Performance Simulation Association (BS2015)*. s. 2117-2124

Towards Seamless Integration of Model-Based Energy Performance Simulation and Multi-Objective Optimization Tools
Ionesi, A., Jradi, M., Kjærgaard, M. B. & Veje, C., 7. dec. 2015, *Proceedings for 14th International Conference of the International Building Performance Simulation Association (BS2015)*. s. 1173-1179 2824

Structural Properties and Mechanical Durability of Extruded Fish Feed
Haubjerg, A. F., Veje, C., Jørgensen, B. N., Simonsen, B. & Løvgreen, S., dec. 2015, I: *Journal of Food Process Engineering*. 38, 6, s. 621–631

Experimental investigation of physical properties and mechanical durability of extruded fish feed in the drying process
Haubjerg, A. F., Veje, C., Jørgensen, B. N. & Simonsen, B., 21. okt. 2015.

Overall energy performance analysis of a living lab building in Denmark
Ionesi, A., Jradi, M. & Veje, C., 25. aug. 2015.

A new principle for underground pumped hydroelectric storage
Olsen, J., Paasch, K., Lassen, B. & Veje, C., 1. aug. 2015, I: *Journal of Energy Storage*. 2, s. 54-63

A model for water distribution in manifolds for industrial process autoclaves: Industrial Problem
Hansen, C. V., Larsen, J. S., Buch, J. P., Sørensen, L. C., Iversen, T. F., Jørgensen, T. B., Toftekov, J., Song, X., Hansen, M. F., Veje, C., Petersen, H. G. & Sørensen, M. P., 2015.

A numerical model of the deep-bed drying of extruded fish feed and its experimental validation
Haubjerg, A. F., Veje, C., Jørgensen, B. N. & Simonsen, B., 2015.

A Soil-Based Seasonal Thermal Energy Storage System Assisted By A PV-Driven Heat Pump Under Danish Conditions
Jradi, M., Veje, C. & Jørgensen, B. N., 2015, *Proceeding of 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems*. Université de Pau et des Pays de l'Adour

Challenge: Advancing Energy Informatics to Enable Assessable Improvements of Energy Performance in Buildings
Jørgensen, B. N., Kjærgaard, M. B., Lazarova-Molnar, S., Shaker, H. R. & Veje, C., 2015, *Proceedings of the Sixth ACM International Conference on Future Energy Systems (ACM e-Energy)*. Association for Computing Machinery, s. 77-81

Computationally Efficient Model of An Active Magnetic Regenerator
Tahavori, M., Veje, C., Lei, T., K. Nielsen, K. & Engelbrecht, K., 2015, *5th IEEE International Conference on Control Systems, Computing and Engineering*. IEEE, s. 135-140

Finite Element Implementation for Phase-Change Phenomena Operating the Volume Translated Peng-Robinson Equation of State
Singh, A. K. & Veje, C., 2015, *Proceeding of 2nd Frontiers in Computational Physics Conference: Energy Sciences*.

Integration of DG Sources for Compensation of Unbalanced Loads in Power Grid

Pouresmaeil, E., Shaker, H. R., Veje, C., Shokridehaki, M., M. G. Rodrigues, E. & P. S. Catalão, J., 2015, *Proceeding of IEEE Powertech 2015*. IEEE, s. 1-6

Sensitivity Study of Multi-layer Active Magnetic Regenerators Using First Order Magnetocaloric Material $\text{La(Fe,Si,Mn)}_{13}\text{H}$

Lei, T., K. Nielsen, K., Engelbrecht, K., Bahl, C., Bez, H. N. & Veje, C., 2015, I: *Journal of Applied Physics*. 118, 1, 8 s., 014903.

Simulation and Parametric Analysis of an Office Building Energy Performance under Danish Conditions

Jradi, M., Gamboa, A. Z. & Veje, C., 2015.

Modelling and Comparison Studies of Packed Screen Regenerators for Active Magnetocaloric Refrigeration: Refrigeration for Sustainable Development

Lei, T., Engelbrecht, K., K. Nielsen, K., Veje, C., TUŠEK, J. & Bahl, C. R. H., 7. sep. 2014, *Proceedings of 6th IIF-IIR International Conference on Magnetic Refrigeration*. International Institute of Refrigeration, (Thermag = IIR Conference on Magnetic Refrigeration at Room Temperature; Nr. 2014-4).

Prediction of mechanical durability of dried, extruded fish feed using structural mechanics models and experimental justification of relaxation times

Haubjerg, A. F., Simonsen, B., Løvgreen, S., Jørgensen, B. N. & Veje, C., 25. aug. 2014.

Mathematical modeling of the drying of extruded fish feed and its experimental demonstration

Haubjerg, A. F., Simonsen, B., Løvgreen, S., Jørgensen, B. N. & Veje, C., aug. 2014. 7 s.

A flexible control strategy for integration of DG sources into the power grid

Pouresmaeil, E., Jørgensen, B. N., Veje, C. T. & P. S. Catalão, J., 2014, *Proceedings of the Australasian Universities Power Engineering Conference (AUPEC 2014)*. Abu-Siada, A. & Masoum, M. A. S. (red.). IEEE, 6 s.

Dynamic Control of Water Levels in a Root Screening Facility: DLF-Trifolium Problem

Hildebrandt, C., Jensen, C. L., SDun, R., Nielsen, K. K., Singh, A. K., Ziolo, P., Zagórska, M. & Veje, C., 2014, 27 s.

Exergy costing for energy saving in combined heating and cooling applications

Nguyen, C., Veje, C. T., Willatzen, M. & Andersen, P., 2014, I: *Energy Conversion and Management*. 86, s. 349-355 7 s.

Modeling Temperature Development of Li-Ion Battery Packs in Hybrid Refuse Truck Operating at Different Ambient Conditions

Coman, P. T. & Veje, C., 2014, *Proceedings of the IEEE Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems*. IEEE, s. 862-869 7 s. (Intersociety Conference on Thermal and Thermomechanical in Electronic Systems. Proceedings).

Modeling Temperature Development of Li-ion Battery Packs using Phase Change Materials (PCM) and Fluid Flow

Coman, P. T. & Veje, C., 2014, *ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis*. American Society of Mechanical Engineers, Bind 3. 8 s.

Pressure drop calculation using a one-dimensional mathematical model for two-phase flow through an orifice: Comparison with experiments

Petkov, K. P., Puton, M., Madsen, S. P., Veje, C. & Willatzen, M., 2014, I: *International Journal on Heat and Mass Transfer*. 2, 3, 7 s.

Analysis and Modeling of Heat Generation in Overcharged Li-Ion Battery with Passive Cooling

Coman, P. T. & Veje, C., feb. 2013, I: *International Review of Mechanical Engineering*. 7, 2, s. 293-300

Analysis and Modeling of Heat Generation in Overcharged Li-Ion Battery with Passive Cooling

Coman, P. T. & Veje, C., 2013, I: *International Journal on Heat and Mass Transfer*. 7, 2

Numerical Model and Analysis of Peak Temperature Reduction in LiFePO₄ Battery Packs Using Phase Change Materials

Coman, P. T. & Veje, C., 2013, *Proceedings of the 8th International Conference on Multiphase Flow*. Multi-Science Publishing Co. Ltd, 7 s.

Rheological properties as indicator for physico-chemical processes affecting technical quality of extruded fish feed

Haubjerg, A. F., Veje, C. & Jørgensen, B. N., 2013, *Proceedings of the 4th European Drying Conference*. 8 s.

Texture profile analysis of extruded fish feed: Graintec Problem, ESGI94, University of Southern Denmark

Borch, J., Duggen, L., Hall, C., Haubjerg, A. F., Lassen, B., Markovič, B., Rechenbach, B., Thulesen, T. & Veje, C., 2013, 4 s.

Ensuring technical product quality in energy efficient hot air drying of extruded fish feed: Definition of an industrial research project

Haubjerg, A. F., Veje, C. & Jørgensen, B. N., nov. 2012. 5 s.

Sensitivity and Design of a Transcritical CO₂ Cooling and Heating System

Nguyen, C., Veje, C., Willatzen, M. & Andersen, P., jun. 2012, *Proceedings of the 10th IIR-Gustav Lorentzen Conference on Natural Working Fluid: Refrigeration Science and Technology*. Infante Ferreira, C. (red.). International Institute of Refrigeration, Bind 2012-1. s. 381-388 8 s. (Science et Technique du Froid, Bind 2012-1).

Analysis of the thermal behavior of a LiFePO₄ battery cell

Niculuta, M-C. & Veje, C., 2012, I: *Journal of Physics: Conference Series (Online)*. 395, s. 012013

Distributed model for drying of rendered protein material in industrial rotating plate dryers

Zhang, X., Veje, C., Willatzen, M. & Lassen, B., 2012, *Proceedings of the 18th International Drying Symposium*.

Dynamic Modeling of Phase Crossings in Two-Phase Flow

Madsen, S., Veje, C. & Willatzen, M., 2012, I: *Communications in Computational Physics*. 12, s. 1129-1147 18 s.

Ensuring technical product quality in energy efficient hot air drying of extruded fish feed: Definition of an industrial research project

Haubjerg, A., Simonsen, B., Jørgensen, B. N. & Veje, C., 2012, *Proceedings of the 18th International Drying Symposium*.

Modelling of the Heating Process in a Thermal Screw

Zhang, X., Veje, C., Lassen, B. & Willatzen, M., 2012, I: *Journal of Physics: Conference Series (Online)*. 395, s. 012157

Population dynamics approach for the study of synergetic coupling between antibiotic and helper compounds

Veje, C., Willatzen, M., Hendricks, O., Páges, J-M. & Kristiansen, J. E., 2012, I: *Computational Molecular Bioscience*. 2, 1, s. 1-6 6 s.

Pricing Heating and Cooling in Non-Profit Utility Organizations

Nguyen, C., Veje, C., Willatzen, M. & Andersen, P., 2012.

Modeling and analysis of a transcritical rankine power cycle with a low grade heat source

Nguyen, C. & Veje, C., aug. 2011. 8 s.

Modeling of fish food pellets – temperature and stress distribution, porous effects: Graintec Problem, ESGI83, University of Southern Denmark

Fugl, A. R., Knudsen, R. S., Madsen, S. P., Styles, R., Veje, C., Vynnycky, M. & Willatzen, M., 2011

Modelling and comparison studies of packed screen regenerators for active magnetocaloric refrigeration

Lei, T., Engelbrecht, K., Nielsen, K. K., Veje, C. T., TUŠEK, J. & Bahl, C. R. H., 2011, *6th IIR/IIF International Conference on Magnetic Refrigeration at Room Temperature, THERMAG 2014*. International Institute of Refrigeration, Bind 2011-January. s. 97-98 2 s.

Efficient Numerical Solution of One-Dimensional Governing Equations for Evaporating Flow in a Tube

Veje, C., Madsen, S. & Willatzen, M., 2010. 8 s.

Implementation of the Kurganov-Tadmor Highresolution Semi-Discrete Central Scheme for Numerical Solution of the Evaporation Process in Dry Expansion Evaporators

Madsen, S., Veje, C. & Willatzen, M., 2009, *SIMS 50 - Modelling and Simulation of Energy Technology*. SIMS, 8 s.

Proceedings of the SIMS 50 Conference

Elmegaard, B. (red.), Veje, C. (red.), Nielsen, M. P. (red.) & Mølbak, T. (red.), 2009, Lyngby: DTU.

Coolant compressor for coolant system has suction chamber volume one to one-and-a-half times piston swept volume: PATENT DE2003123381 20030523

Veje, C., 2005

Considerations on Transcritical CO₂ Systems with Low Capacity

Tiedeman, T., Süß, J. & Veje, C., 2004, *Proceedings of the 5th International Conference on Compressors, Slovakia 2004*.

Development and Performance Measurements of a small Compressor for Transcritical CO₂ Applications

Süß, J. & Veje, C., 2004, *Proceedings of the International Purdue Compressor Technology Conference, Purdue, 2004*. 7 s.

Entwicklung und Leistungsmessung eines kleinen verdichters für transkritische CO₂-anwendungen

Süß, J. & Veje, C., 2004.

The transcritical CO₂ cycle in light commercial refrigeration applications

Veje, C. & Süß, J., 2004, *Proceedings of the 6th IIR Gustav Lorentzen Natural Working Fluids Conference, Glasgow 2004*.

Science in the Sandbox: Fluctuations, Friction and Instabilities

Behringer, R. B., Clement, E., Geng, J., Howell, D. W., Kondic, L., Metcalfe, G., O'Hern, C., Reydellet, G., Tennakoon, S., Vanel, L. & Veje, C., 2001, *Coherent Structures in Complex Systems: Lecture Notes in Physics*. Reguera, D., Rubi, J. M. & Bonilla, L. L. (red.). Springer, Bind 567.

The Dynamics of Granular Flow in an Hourglass

Veje, C. & Dimon, P., 2001, I: *Granular Matter*. 3, 3, s. 151-164

Fluctuations in Granular Media

Howell, D. W., Behringer, R. B. & Veje, C., 1999, I: *Chaos*. 9, s. 559

Kinematics of a 2D granular Couette experiment at the transition to shearing

Veje, C., Howell, D. W. & Behringer, R. B., 1999, I: *Physical Review E*. 59, 1, s. 739

Predictability and Granular Materials

Behringer, R. B., Howell, D. W., Kondic, L., Tennakoon, S. & Veje, C., 1999, I: *Physica D : Non-linear Phenomena*. 133, 1

Stress Fluctuations in a 2D Granular Couette Experiment: A Continuous Transition

Howell, D. W., Behringer, R. B. & Veje, C., 1999, I: *Physical Review Letters*. 82, s. 5241

The Dynamics of Granular Flow in an Hourglass

Veje, C., 1999, The Niels Bohr Institute, University of Copenhagen.

Fluctuations and Flow for Granular Shearing

Veje, C., Howell, D. W., Behringer, R. B., Shollmann, S., Luding, S. & Herrmann, H. J., 1998, *Physics of dry granular media NATO ASI Series*. Kluwer Academic Publishers

Gravity and Granular Materials

Behringer, R. B., Howell, D. W., Kondic, L., Tennakoon, S. & Veje, C., 1998, *Proceedings of the Fourth Microgravity, Fluid Physics and Transport Conference*.

Power spectra of flow in an hourglass

Veje, C. & Dimon, P., 1997, I: *Physical Review E*. 56, 4, s. 4376-4380

Kinematic Density Waves in a Two-Dimensional Granular Flow

Veje, C. & Dimon, P., 1996, *Proceedings of the HLRZ Workshop on Traffic and Granular Flow*. World Scientific

Two-dimensional granular flow in a small-angle funnel

Veje, C. & Dimon, P., 1996, I: *Physical Review E*. 54, 4, s. 4329

Fluctuations in a Granular Flow: Master Thesis

Veje, C., 1995, The Niels Bohr Institute, University of Copenhagen.

Aktiviteter

DTU International Energy Conference 2013

Christian Veje (Deltager)

10. sep. 2013 → 12. sep. 2013

ESGI 2013

Christian Veje (Arrangør)

19. aug. 2013 → 23. aug. 2013

Modern Methods in Industrial Mathematics

Christian Veje (Arrangør)

15. aug. 2013 → 23. aug. 2013

International Conference on Multiphase Flow

Christian Veje (Deltager)

26. maj 2013 → 31. maj 2013

Danmarks Tekniske Universitet (Ekstern organisation)

Christian Veje (Medlem)

5. okt. 2011

International Congress of Refrigeration 2011

Christian Veje (Deltager)

21. aug. 2011 → 26. aug. 2011

ESGI 2011

Christian Veje (Arrangør)

15. aug. 2011 → 19. aug. 2011

KVCA A/S (Ekstern organisation)

Christian Veje (Medlem)
25. maj 2011

Danmarks Tekniske Universitet (Ekstern organisation)

Christian Veje (Medlem)
22. nov. 2010

Modelica and TIL Workshop

Christian Veje (Deltager)
3. aug. 2010 → 5. aug. 2010

International Conference on Multiphase Flow

Christian Veje (Deltager)
30. maj 2010 → 4. jun. 2010

Indo European Study Group with Industry 2010

Christian Veje (Deltager)
3. maj 2010 → 7. maj 2010

VE-Net (Ekstern organisation)

Christian Veje (Medlem)
1. jan. 2010

SIMS 50 - Modelling and Simulation of Energy Technology

Christian Veje (Arrangør)
7. okt. 2009 → 8. okt. 2009

ESGI 2009

Christian Veje (Deltager)
17. aug. 2009 → 21. aug. 2009

Ph.D. Fagligt Udvalg (FUP) (Ekstern organisation)

Christian Veje (Medlem)
1. aug. 2009 → ...

Evaluation committee for the ph.d. defence (Ekstern organisation)

Christian Veje (Medlem)
27. mar. 2009 → 17. jun. 2009

Danmarks Tekniske Universitet (Ekstern organisation)

Christian Veje (Medlem)
11. dec. 2007

DKSIM (Ekstern organisation)

Christian Veje (Medlem)
1. jan. 2007 → ...

Presse/medie**Dagens intelligente bygninger stiller krav til mere efteruddannelse af medarbejdere i byggebranchen**

Christian Veje
09/10/2018

1 Mediebidrag

SDU og Ærø Kommune med i millionprojekt

Christian Veje
27/11/2019
1 Mediebidrag

SDU og Ærø Kommune med i millionprojekt

Christian Veje
28/11/2019
1 Mediebidrag

SDU og Ærø Kommune med i millionprojekt: Skal sikre CO2-neutral transport i Nordsøen

Christian Veje
27/11/2019
1 Mediebidrag

Undervisning og vejledning

Achieving the goal of a self-sufficient Ærø, utilizing storage.

Shaojun Huang, Konstantin Filonenko & Christian Veje
03/02/2020 → ...

First steps of a simulation model for Thermonet

Christian Veje & Konstantin Filonenko
01/02/2018 → 01/06/2018

Optimizing the Thermal Energy Storage Configuration of Fynsværket

Christian Veje & Konstantin Filonenko
01/02/2019 → 31/05/2019

Power System Economics

Christian Veje & Luis Boscán
01/02/2018 → 19/06/2018

Reaching a sustainable solution for Aeroe's heat production and consumption

Shaojun Huang, Konstantin Filonenko & Christian Veje
01/02/2020 → ...

Undervisnings Portfolio

Undervisningsportfolio kan findes her:

https://www.dropbox.com/s/ni6s5jw5xw65kla/CTV_Teaching_Portfolio.pdf?dl=0