

Qualifications

Technology, PhD, Material properties and full-scale rain exposure of lime-hemp concrete walls, Swedish University of Agricultural Sciences

2005 → 2012

Award Date: 2012 Sept 21

Architecture, Building and Planning, MSc, Eindhoven University of Technology

1999 → 2005

Employment

Senior lecturer

Division of Building Materials

Lund University

Lund, Sweden

2015 Sept 21 → present

Profile area member

LTH Profile Area: Circular Building Sector

Lund University

Sweden

2022 Jun 28 → present

Profile area member

LU Profile Area: Nature-based future solutions

Lund University

Sweden

2024 Nov 29 → present

Building physics consultant

WSP Sverige AB

Sweden

2010 Feb 1 → 2019 Sept 1

Research output

Högvärdiga produkter av lokala biomassor: Med fokus på byggmaterial

Ohland-Andersen, M., Eriksen, L., Salvador, R., Nilsson, H., Raagaard Ernst, C., Olsen, T., Lyngge, K., Kjær, T., Strandberg, P., Engberg Pallesen, B., Pape Thomsen, T., Davidsson, K., Persson, S. & Skjødt Nielsen, J., 2026, INTERREG South Baltic Programme. 77 p.

Hygrothermal Properties and Performance of Bio-Based Insulation Materials Locally Sourced in Sweden

Ranefjärd, O., Strandberg, P. & Wadsö, L., 2024 Apr, In: *Materials*. 17, 9, 16 p., 2021.

Materialegenskaper hos fogbruk till nygotiska murverk

Strandberg, P. & Balksten, K., 2024 Feb, TVBM-7226 ed. Lund: Lund University. 37 p. (TVBM; no. 7226)

Moisture Buffering of Hemp-Lime with Biochar and Rape Straw-Lime as Surface Materials for a Stable Indoor Climate

Strandberg, P. & Balksten, K., 2023, *Bio-Based Building Materials.: Proceedings of ICBBM 2023*. Amziane, S., Merta, I. & Page, J. (eds.). Springer, p. 144-157 14 p. (RILEM Bookseries; vol. 45).

The potential of agricultural residual waste as building material in South Sweden

Kanters, J., Kulsomboon, M. & Strandberg, P., 2023, *CISBAT 2023 Conference*. 16 ed. Vol. 2600. 6 p. (Journal of Physics: Conference Series; vol. 2600).

Bindemedel till mur- och putsbruk: En introduktion

Lindmark, S. & Strandberg, P., 2022 Jun 1, Lund: Lund University. 16 p. (TVBM; no. 3188)

Biokolsbetong: Case 7 - Greater Bio

Strandberg, P., 2022, 5 p. Lund University.

Biobaserade byggnadsmaterial och cirkulärt byggande: En kunskapsammanställning

Strandberg, P., 2021 Mar, Malmö: LFM30. 48 p.

Internal Retrofitting with Hemp-Lime on Brick Masonry: a Study to Prevent Damage Caused by Sodium Sulphate

Balksten, K. & Strandberg, P., 2021, *Proceedings of SWBSS 2021: Fifth International Conference on Salt Weathering of Buildings and Stone Sculptures*. Delft, p. 277-286

Moisture Levels in Historic Timber Walls Insulated with Hemp-Lime

Strandberg, P. & Balksten, K., 2021, *Proceedings of the International Conference on Earthen and Wood Vernacular Heritage and Climate Change*. Dabaieh, M. (ed.). Lund: Lund University, p. 122-127

Risk for Mould Growth on Hemp-Lime at Different Relative Humidity

Johansson, S., Strandberg, P. & Balksten, K., 2021, *Bio-Based Building Materials: Selected peer-reviewed full text papers from the 4th International Conference on Bio-Based Building Materials (ICBBM 2021), June 16-18, 2021, Barcelona, Spain*. Amziane, S. & Sonebi, M. (eds.). Trans Tech Publications, p. 588-594 (Construction Technologies and Architecture; vol. 3).

Understanding deterioration due to salt and ice crystallization in scandinavian massive brick masonry

Balksten, K. & Strandberg-de Bruijn, P., 2021, In: *Heritage*. 4, 1, p. 349-370 22 p.

Full-scale studies of improving energy performance by renovating historic Swedish timber buildings with hemp-lime

Strandberg-de Bruijn, P., Donarelli, A. & Balksten, K., 2019 Jun 18, In: *Applied Sciences (Switzerland)*. 9, 12, 2484.

Building status obtained before renovating multifamily buildings in Sweden

Farsäter, K., Strandberg, P. & Wahlström, Å., 2019, In: *Journal of Building Engineering*. 100723.

Energy and moisture in historic masonry walls retrofitted with hemp-lime

Strandberg-De Bruijn, P. B. & Balksten, K., 2019, *IOP Conference Series: Materials Science and Engineering*. Vol. 660. 012070

Hampakalk: Tilläggsisolering på reveterade trähus och saltskadat tegelmurverk - Slutrapport

Balksten, K. (Editor) & Strandberg, P. (Editor), 2019, Lund. 130 p.

Sustainable insulation of historical wooden and stone buildings with lime-hemp

Strandberg, P., Balksten, K. & Donarelli, A., 2017 Jun 21, *ICBBM 2017 Proceedings of the 2nd International Conference on Bio-Based Building Materials*. Amziane, S., Sonebi, M. & Charlet, K. (eds.). p. 651 655 p.

Erfarenhetsåterföring vid renovering

Farsäter, K., Johansson, D., Strandberg, P. & Abdul Hamid, A., 2017 Feb, *Bygg och teknik*, 2, p. 38-39 2 p.

Hållbar energieffektivisering av historiska trä- och stenbyggnader med hampakalk

Strandberg, P., Donarelli, A. & Balksten, K., 2017, *Bygg & teknik*, 5, p. 26-29.

Moisture transport properties of lime-hemp concrete determined over the complete moisture range

Strandberg-de Bruijn, P. & Johansson, P., 2014, In: *Biosystems Engineering*. 122, p. 31-41 11 p.

Moisture fixation and thermal properties of lime-hemp concrete

de Bruijn, P. & Johansson, P., 2013, In: *Construction and Building Materials*. 47, p. 1235-1242

Material Properties and Full-Scale Rain Exposure of Lime-Hemp Concrete Walls: Measurements and Simulations

de Bruijn, P., 2012 Sept 21, Sveriges Lantbruksuniversitet.

Energy Efficiency in Terrace House Renovation

de Bruijn, P., Ham, M., Wall, M., Barup, K. & Lichtenberg, J., 2008, *Proceedings of the 2008 World Sustainable Building Conference*. Foliente, G. (ed.).

Hemp concretes : mechanical properties using both shives and fibres

de Bruijn, P., 2008, Sveriges Lantbruksuniversitet. 46 p.

Mechanical Properties, Water Sorption and Frost Resistance of Various Lime-Hemp Concretes

de Bruijn, P., Jeppsson, K.-H., Sandin, K. & Nilsson, C., 2008, *Proceedings of the 2008 World Sustainable Building Conference*. Foliente, G. (ed.).

Projects

Biobased houses in industrialized construction

Frühwald Hansson, E. (Project coordinator), Niklewski, J. (Assistant supervisor), Ranefjärd, O. (Research student), Rosenkilde, A. (Assistant supervisor) & Strandberg, P. (Researcher)
Swedish Government Agency for Innovation Systems (Vinnova)
2019/12/01 → 2022/05/31

Greater Bio

Strandberg, P. (Researcher)
Interreg Öresund-Kattegat-Skagerrak
2020/01/01 → 2022/09/30

Hållbar energieffektivisering av 1960- och 1970- talets skolor för förbättrad inomhusmiljö

Strandberg, P. (PI), Ranefjärd, O. (Researcher), Balksten, K. (Researcher), Kanters, J. (Researcher), Andersson, L. (Researcher) & Wilkens, K. (Researcher)
Swedish Energy Agency
2025/09/01 → 2028/12/31

HempFab Nordic - Hempcrete prefab panels for the Nordic environment

Strandberg, P. (PI)
Swedish Government Agency for Innovation Systems (Vinnova)
2023/05/08 → 2025/05/09

Klimatberäknings- affärs- och kompetensplattform för en klimatneutral bygg- och anläggningssektor i Malmö 2023

Strandberg, P. (Researcher)
2019/10/15 → 2021/10/15

LU Land

Smith, H. (PI), Boyd, E. (PI), Börjesson, P. (PI), Clough, Y. (PI), Akselsson, C. (PI), Ekroos, J. (PI), Wilhelmsson, F. (PI), Brogaard, S. (PI), Alkan Olsson, J. (PI), Olsson, P. A. (PI), Dänhardt, J. (Project coordinator), Wamsler, C. (Researcher), Brady, M. V. (Researcher), Kander, A. (Researcher), Chaminade, C. (Researcher), Thorén, H. (Researcher), Persson, J. (Researcher), Johansson, M. (Researcher), Strandberg, P. (Researcher), Berndtsson, R. (Researcher), Olander, S. (Researcher), Kopsch, F. (Researcher), Khan, J. (Researcher), Björnsson, L. (Researcher), Kyrö, R. (Researcher), Hansson, L.-A. (Researcher), Brönmark, C. (Researcher), Hammer, E. (Researcher), Wallander, H. (Researcher), Rundlöf, M. (Researcher), DHertefeldt, T. (Researcher), Hedlund, K. (Researcher), Persson, A. (Researcher), Hansson, M. (Researcher), May, W. (Researcher), Koca, D. (Researcher), von Post, M. (Researcher), Sahlin, U. (Researcher), Kljun, N. (Researcher), Persson, P. (Researcher), Jönsson, A. M. (Researcher), Ardö, J. (Researcher), Seaquist, J. (Researcher), Olin, S. (Researcher), Finnander Linderson, M.-L. (Researcher), Eklundh, L. (Researcher), Bülow, L.

(Researcher), Germundsson, T. (Researcher), Andersson, E. (Researcher), Olsson, L. (Researcher), Nicholas, K. (Researcher), Stripple, J. (Researcher), Nilsson, K. (Researcher), Hildingsson, R. (Researcher), Zelli, F. (Researcher), Nielsen, T. (Researcher), Knaggård, Å. (Researcher), Jönsson, K. (Researcher), Johansson, H. (Researcher), Appelstrand, M. (Researcher), Persson, K. M. (Researcher), Becker, P. (Researcher), Nikoleris, A. (Researcher), Kristensson, A. (Researcher), Sporre, M. (Researcher), Aits, S. (Researcher), Runemark, A. (Researcher), Klatt, B. (Researcher), Kritzberg, E. (Researcher), Andersson, A. (Researcher), Caretta, M. A. (Researcher), Ramasar, V. (Researcher), Scholze, M. (Researcher), Nielsen, A. (Researcher), Eklund, L. (Researcher), Johansson, E. (Researcher), Carton, W. (Researcher) & Hickmann, T. (Researcher)
2019/06/14 → ...

Materialegenskaper hos fogbruk till nygotiska murverk

Strandberg, P. (Researcher), Åhs, M. (Researcher) & Balksten, K. (Researcher)
2021/01/01 → 2023/12/31

Moisture buffering and thermal properties of surface materials for a stable indoor climate in museums

Strandberg, P. (Researcher) & Balksten, K. (Researcher)
Swedish Energy Agency
2020/07/01 → 2022/12/31

Power Bio

Strandberg, P. (Researcher)
2023/01/16 → 2026/01/16

LO-CI: Pre-study for a fully circular façade system for locally-sourced building materials (LOCI)

Kanters, J. (Researcher) & Strandberg, P. (Researcher)
2022/09/01 → 2024/02/29

Preventing salt crystallization using hemp-lime plaster in historical brick buildings

Strandberg, P. (Researcher) & Balksten, K. (Researcher)
2018/01/01 → 2018/12/31

Sustainable biobased building envelopes

Frühwald Hansson, E. (Project coordinator), Ranefjärd, O. (PI), Niklewski, J. (Researcher), Björnsson, I. (Researcher), Limongelli, M. G. (Supervisor), Bayat Pour, M. (Research student) & Strandberg, P. (Researcher)
Swedish Government Agency for Innovation Systems (Vinnova)
2022/11/01 → 2025/04/30

Sustainable insulation of historical wooden and stone buildings with lime-hemp

Strandberg, P. (PI), Balksten, K. (Researcher), Donarelli, A. (Research assistant) & Mebus, U. (Col)
2016/09/01 → 2019/02/28

Uppföljning av hampakalk som tilläggsisoleringsmaterial för historiska byggnader

Strandberg, P. (Researcher) & Balksten, K. (Researcher)
2020/01/01 → 2023/03/01

Urban Arena

Karvonen, A. (PI), Dahl, P.-J. (Researcher), Sveningsson, H. (Project communication officer), Sandström, I. (Researcher), Neij, L. (Researcher), Mukhtar-Landgren, D. (Researcher), Pries, J. (Researcher), Paulsson, A. (Researcher), Alkan Olsson, J. (Researcher), Oudin, A. (Researcher), Knutagård, M. (Researcher), Koglin, T. (Researcher), Sörensen, J. (Researcher), Mattisson, K. (Researcher), Thidell, Å. (Researcher), Ståhl, A. (Researcher), Sopasakis, A. (Researcher), Elgh, A. (Researcher), Lund Hansen, A. (Researcher), Wretstrand, A. (Researcher), Varhelyi, A. (Researcher), Norrman, A. (Researcher), Wierzbicka, A. (Researcher), Åkerman, A. (Researcher), Ekberg, A. (Researcher), Petersson, A. (Researcher), Wahlöö, A. (Researcher), Persson, A. (Researcher), Thomasson, A. (Researcher), Linden, A.-L. (Researcher), Landin, A. (Researcher), Knaggård, Å. (Researcher), Ness, B. (Researcher), Holmberg, B. (Researcher), Eriksen, B. (Researcher), Kiss, B. (Researcher), Nordquist, B. (Researcher), Badersten, B. (Researcher), Magnusson Staaf, B. (Researcher), Wickenberg, B. (Researcher), Dalhammar, C. (Researcher), Martinez, C. (Researcher), Sternudd, C. (Researcher), Fredriksson, C. (Researcher), Rydälv, C. (Researcher), Malmgren, C. (Researcher), Malmström, C. (Researcher), Larsson, C. (Researcher), Wamsler, C. (Researcher), Uvo, C. B. (Researcher), Mukhtar-Landgren, D. (Researcher), Andréen, D. (Researcher), Koca, D. (Researcher), Johansson, D. (Researcher), Brink, E. (Researcher),

Malmqvist, E. (Researcher), Pedersen, E. (Researcher), Dalholm Hornyánszky, E. (Researcher), Högdahl, E. (Researcher), Kjellsson, E. (Researcher), Boyd, E. (Researcher), Clark, E. (Researcher), Serrano, E. (Researcher), Nilsson, F. (Researcher), Kopsch, F. (Researcher), Hallberg Skátar, F. (Researcher), Paulsson, G. (Researcher), Sandin, G. (Researcher), Magnusson, H. (Researcher), Bagge, H. (Researcher), Hanson, H. (Researcher), Hanson, H. (Researcher), Busch, H. (Researcher), Hassel, H. (Researcher), Pålsson, H. (Researcher), Smith, H. (Researcher), Davidsson, H. (Researcher), Smith, H. (Researcher), Corvellec, H. (Researcher), Sandström, I. (Researcher), Pålsson Skarin, I. (Researcher), Arroyo, I. (Researcher), Khan, J. (Researcher), Ryan, J. (Researcher), Palm, J. (Researcher), Arfvidsson, J. (Researcher), Richter, J. (Researcher), Rahm, J. (Researcher), Martinsson, J. (Researcher), Alkan Olsson, J. (Researcher), Åstrand, J. (Researcher), Kanters, J. (Researcher), Lundquist, K.-J. (Researcher), Salomonsson, K. (Researcher), Steen, K. (Researcher), Hennig, V. K. R. (Researcher), Molina-Besch, K. (Researcher), Persson, K. M. (Researcher), Sernhed, K. (Researcher), Barup, K. (Researcher), McCormick, K. (Researcher), Maini Gerhardsson, K. (Researcher), Mattisson, K. (Researcher), Foroughanfar, L. (Researcher), Bengtsson, L. (Researcher), Wadsö, L. (Researcher), Harrie, L. (Researcher), Jönsson, L.-E. (Researcher), Ståhl, L.-H. (Researcher), Liuke, L. (Researcher), Fünfschilling, L. (Researcher), Eskilsson, L. (Researcher), Winslott Hiselius, L. (Researcher), Neij, L. (Researcher), Röjnert, L. (Researcher), Lundmark, L. (Researcher), Eklund, L. (Researcher), Enochsson, L. (Researcher), Persson, M. (Researcher), Holst-Ekström, M. (Researcher), Johansson, M. (Researcher), Rasmussen, M. (Researcher), Wall, M. (Researcher), Esaiasson, M. (Researcher), Dubois, M.-C. (Researcher), Grillitsch, M. (Researcher), Dahlblom, M. (Researcher), Hultman, M. (Researcher), Kärrholm, M. (Researcher), Klintman, M. (Researcher), Molnar, M. (Researcher), Mottaghi, M. (Researcher), Baruti, M. M. (Researcher), Yahia, M. W. (Researcher), Bocken, N. (Researcher), Egan, N. (Researcher), Mont, O. (Researcher), Mattisson, O. (Researcher), Thufvesson, O. (Researcher), Kolte, O. (Researcher), Samuelsson, O. (Researcher), Blomqvist, O. (Researcher), Christensson, O. (Researcher), Larsson Ivanov, O. (Researcher), Strandberg, P. (Researcher), Prieto de La Fuente, P. (Researcher), Hjorth, P. (Researcher), Arnfalk, P. (Researcher), Bengtson, P. (Researcher), Sjöström, P. (Researcher), Olsson, P. (Researcher), Persson, P. (Researcher), Wallentén, P. (Researcher), Saagi, R. (Researcher), Bernardo, R. (Researcher), Hildingsson, R. (Researcher), Larsson, R. (Researcher), Berndtsson, R. (Researcher), Alrabadi, S. (Researcher), Hyler, S. (Researcher), Kopljar, S. (Researcher), Sandin Lompar, S. (Researcher), Olander, S. (Researcher), Wandel, S. (Researcher), Curtis, S. (Researcher), Dahlgard-Park, S. M. (Researcher), Lindhqvist, T. (Researcher), Laike, T. (Researcher), Germundsson, T. (Researcher), Hellström, T. (Researcher), Tägil, T. (Researcher), Jeppsson, U. (Researcher), Ramberg, U. (Researcher), Chudnikova, V. (Researcher), Shoaib, W. M. (Researcher), Voytenko Palgan, Y. (Researcher), Miranda, P. (Researcher), Chu, A. C. (Researcher), Brinck, I. (Researcher), Shabb, K. (Researcher), Wahlund, M. (Researcher), Reindl, K. (Researcher), Macgregor, F. (Researcher), Libertson, F. (Researcher), Johansen, K. (Researcher), Litsmark, A. (Researcher) & Lysholm, E. (Researcher)
2022/03/03 → ...

Utvärdering och förkvalificering av innervägssystem baserat på lågvärdiga biobaserade material

Strandberg, P. (Researcher)

2022/12/01 → 2023/06/30