# CURRICULUM VITAE

Finn O. Englund

Born: 1954, Stockholm

**Doctoral degree**

1990 PhD, Organic chemistry, KTH (Royal Institute of Technology), Stockholm

**Employments**

| | |
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| 2020- | Self-employed, Finn Englund Produktion AB |
| 2017-2020 | Senior scientist, RISE Bioeconomy, Biorefinery and Energy |
| 2015-2016 | Senior scientist, SP Technical Research Institute of Sweden, Sustainable Built Environment |
| 2004-2014 | Senior scientist, SP Technical Research Institute of Sweden, Wood Technology. Work areas added during this period include biocomposites development and biorefinery. |
| 1991-2004 | Scientist, Trätek, the Wood Technology Research Institute of Sweden. Researcher within the areas of material durability, material development, surface treatments, and indoor air quality aspects. |
| 1990-1991 | Organic chemistry, KTH, researcher |
| 1984-1990 | Organic chemistry, KTH, PhD student, research assistant |

**Language skills**

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| English | Fluent |
| French | Reasonable working abilities |
| German | Reasonable working abilities |
| Italian | Limited, able to make myself understood |
| Spanish | Limited |
| Hebrew | Rusty, once at a good conversational level |
| Japanese | Beginner |

**Memberships and honorary assignments**

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| 2012-2014 | Steering group of a national Austrian project on the influence of wood on indoor air quality |
| 2011-2015 | Member of the EU Research Support Office for the Swedish forest sector |
| 2010-2015 | The Swedish Chemical Society, auditor |
| 2010-2014 | Delegate to CEN/TC 38/WG 28 |
| 2008-2009 | Organisation committee for ECWM4, 4$^{th}$ European Conference on Wood Modification, coordinator |
| 2006-2010 | CEN TC 38 / WG 21 / Task Group Service Life Prediction, convenor |
| 2004-2008 | COST Action E37, Task Force Performance Classification, convenor |
| 2004-2008 | COST Action E37 ”Sustainability through New Technologies for Enhanced Wood durability”, national delegate in the Management Committee |
| 2004 | Member of the organisation committee for the Nordic conference ”Air quality, comfort and health” 28-29 April 2004 (SWESIAQ) |

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| 2003 | Member of the organisation committee for the Nordic conference”Moisture in buildings and health” 12-13 February 2003 (SWESIAQ) |
| 2000-2014 | Delegate to CEN/TC 38/WG 21 |
| 2000-2004 | Delegate to CEN/TC 38/WG 23 |
| 2000-2005 | Reference group for the project ”Neutral materials in museum environments”, conducted by the Swedish National Board of Cultural Heritage |
| 2000-2005 | Board member of SWESIAQ, national chapter of ISIAQ (International Society for Indoor Air Quality and Climate) |
| 1999-2004 | COST Action E22 ” Environmental optimisation of wood protection”, national delegate in the Management Committee |
| 1999 | National committee for the official campaign year ”Inne 99” about indoor environment |
| 1996-1998 | Reference group for The Swedish National Board of Housing, Building and Planning, and their studies of a voluntary scheme for product declarations of building products |
| 1995-2001 | National reference group BST TK 91 for CEN/TC 264/WG 7 ”Emissions of chemical substances from building materials” and ISO/TC 146/SC 6 “Indoor air” |
| 1995- | International Society for Indoor Air Quality and Climate (ISIAQ), member |
| 1994-1999 | COST Action E2 ”Wood durability”, national delegate in the Management Committee |
| 1987- | International Research Group on Wood Preservation (from 2005: … on Wood Protection), member |
| 1988-1992 | The Swedish Chemical Society, Nomenclature committee |
| 1986-1989 | The Swedish Chemical Society, board of the Stockholm regional program |

**Evaluation committees at dissertations**

Peter Bengtsson (Tekn.lic. Växjö, 2004), Åsa Westberg (Tekn. lic., Stockholm, 2009), Inacio Lhate (Tekn. Dr., Uppsala, 2011)

**Supervision of PhD students**

Jan-Olof Fechter, Tekn. Lic. Växjö 2006, Ekaterina Sidorova, Tekn. Lic. Stockholm, interrupted 2012.

**Reviewing scientific papers**

Some 40-50 papers, principally for the journals Holzforschung, Wood Material Science and Engineering, Materials and Construction, J. of Adhesion Science.
Scientific Committee of SB13 Munich (Implementing Sustainability – Barriers and Chances), April 2013, of the Fourth European Conference on Wood Modification, April 2009

**Evaluations of research grant proposals**

Expert evaluator for Formas, Vinnova, the Swedish Energy Agency and the Research Council of Norway, in total approx. 25 different calls.
Expert evaluator for the European Commission: Marie Sklodowska-Curie ITN 2017 and 2018, EASME Calls: H2020-SC5-2018-2109-2020; H2020-LC-CLA-2018-2019-2020; H2020-LCCI-2020 - TwoStage (Stage2), and Marie Sklodowska-Curie DN 2025.

**Experience of international collaborative research**
I have had a leading function, coordinating all efforts from my former employer SP/RISE, in a number of projects within FP5 – FP8.

**Peer-reviewed publications**


Nore, K., Nyrud, A.Q., Kraniotis, D., Skulberg, K.R., Englund, F. and Aurlien, T. (2017). Moisture buffering, energy potential, and volatile organic compound emissions of wood exposed to indoor environments. *Science and Technology for the Built Environment*, http://dx.doi.org/10.1080/23744731.2017.1288503

Kraniotis, D., Nyrud, A.Q., Englund, F. and Nore, K. (2015). Moisture buffering, energy potential and VOC emissions of wood exposed to indoor environments. Proceedings of the HVAC – Cold Climate conference, 20-23 Oct 2015, Dalian, China.

Nore, K., Englund, F. And Nyrud, A.Q. (2014). Wood construction: Energy, Emissions and Experience. Accepted for inclusion in the proceedings of the 10th Nordic Symposium on Building Physics, 15-19 June 2014, Lund, Sweden.

Suttie, E.; Brischke, C.; Englund, F.; Heisel, E.; Jermer, J.; Lorenzo, D.; Polášek, M.; Thelandersson, S.; Van Acker, J. (2013): Performance standards for wood in construction – delivering customer service life requirements., In: Brischke, C.; Meyer, L. (Eds.) *Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering*, 11-12th September 2013, Hannover, Germany: 44-49.

Jones, D., Englund, F., Henriksson, M., Segerholm, B.K., Trey, S., Sterley, M., Ziethén, R., Gonzales, S., Segui, L. (2012). Development of a novel wood based panel for use in internal door manufacture. *Proceedings of the 5th International Conference on Environmentally Compatible Forest Products*, 5-7 Sept 2012, Porto, Portugal.

Englund, F., Henriksson, M., Jones, D., Segerholm, B.K., Trey, S., Ziethén, R., Nyström, B., Hedlund, E. (2012). Comparison of acoustic properties of biobased composite panels intended for door applications, *Proceedings of the 23rd Annual International SICOMP Conference,* 4-5 June 2012, Piteå, Sweden

Nyrud, A.Q., Bringslimark, T., Englund, F. (2012). Wood use in a hospital environment: VOC emissions and air quality. *European Journal of Wood Products*, **70**, 541-543.

Olsson, S., Östmark, E., Ibach, R.E., Clemons, C.M., Segerholm, B.K., Englund, F. (2011). The use of esterified lignin for synthesis of durable composites. *Proceedings of the 7th meeting of the Nordic-Baltic Network in Wood Material Science and Engineering (WSE)*, eds. Larnøy, E. and Alfredsen, G., Oslo, Norway, pp. 173-178. ISBN. 9788231101390.

Englund, F., Fjaestad, M., Ferm, M. (2011). Corrosivity of the air and the influence of building and furnishing materials in museums. Proceedings Indoor Air 2011, Austin, Texas.

Bryne, L.E., Lausmaa, J., Ernstsson, M., Englund, F. and Wålinder, M.E.P. (2010). Ageing of modified wood. Part 2: Determination of surface composition of acetylated, furfurylated, and thermally modified wood by XPS and ToF-SIMS. *Holzforschung*, 64(3), 305-313.

Englund, F., Bryne, L.E., Ernstsson, M., Lausmaa, J. and Wålinder, M. (2009). Some Aspects on the Determination of Surface Chemical Composition and Wettability of Modified Wood. *Wood Material Science and Engineering* 4(1-2), 80-85.

Inoue, M., Morooka, T., Rowell, R.M., Norimoto, M. and Englund, F. (2009). Mechanism of partial fixation of compressed wood based on a matrix non-softening method. *Wood Material Science and Engineering*, Vol. 3(3-4), 119-125.

Englund, F., Hill, C.A.S., Militz, H., Segerholm, B.K. (2009). *Proceedings of the Fourth European Conference on Wood Modification*, 27–29 April, SP Technical Research Institute of Sweden, Wood Technology, Stockholm, Sweden

Englund, F., Bryne, L.E., Ernstsson, M., Lausmaa, J. and Wålinder, M. (2009). Some Aspects on the Determination of Surface Chemical Composition and Wettability of Modified Wood. In: *Proceedings of the Fourth European Conference on Wood Modification*, 27–29 April, SP Technical Research Institute of Sweden, Wood Technology, Stockholm, Sweden, pp. 553–560.

Bryne, L.E., J. Lausmaa, M. Ernstsson, F. Englund, M.E.P., Wålinder and Söderström, O. (2008). UV-laser irradiated wood - Some aspects on micromorphology, wettability, surface composition and liquid permeability. In: *Proceedings of the 4th meeting of the Nordic Baltic Network in Wood Material Science & Engineering*, Riga, Latvia, November 13–14

J.-O. Fechter, F. Englund (2008). Emission of glycol ethers from MDF surfaces coated by a waterborne laquer under different drying conditions. *Wood Material Science and Engineering*, **3**(1-2), 21-28.

J.-O. Fechter, F. Englund, A. Lundin (2006). Association between temperature, relative humidity and VOC concentration from wooden furniture in a model room. *Wood Material Science and Engineering* **1**(2), 69-75.

F. Englund, R. Nussbaum (2000). Monoterpenes in Scots Pine and Norway Spruce and their Emission during Kiln Drying. *Holzforschung*, **54**, 449-456.

F. Englund (1990). Chemical Modifications of Wood. The use of Chloro-1,3,5-triazines. Doktorsavhandling, KTH, Stockholm (Monografi).

**Other publications**

Englund, F., Östlund, Å., de la Motte, H., Wedin, H., Ribul, M. (2018). Textile tagging – potential lies beyond merely sorting & recycling, Mistra Future Fashion Report 2018:1, ISBN 978-91-88695-29-1.

Tamminen, T. Campargue, M., Damerval, F. Da Silva Perez, D., Dupont, C. Englund, F., Kotli, P., Larsson, S., Papadopoulou, E., Rasa, K., Raussi, T. and Wallin, M. Mobile and flexible industrial processing of biomass, Mobile Flip. 6th International Conference on Engineering for Waste and Biomass Valorisation -May 23–26, 2016 – Albi, France

Tamminen, T., Campargue, M., Damerval, F., Da Silva Perez, D., Dupont, C., Englund, F., Kotli, P., Larsson, S.H., Papadopoulou, E., Rasa, K., Raussi, T. & Wallin, M. Mobile and flexible processing of biomass – EU project Mobile Flip. Proceedings of the 6th Nordic Wood Biorefinery Conference, 20−22.10.2015, Helsinki, Finland

A. Arasto, M. Campargue, F. Damerval, D. Da Silva Perez, C. Dupont, F. Englund, P. Kotli, S. Larsson, E. Papadopoulou, K. Rasa, T. Raussi, T. Tamminen and M. Wallin (2015). Developing and demonstrating technologies for simple and robust processes that are applicable to small scale and mobile applications. Poster at the Bioenergy 2015 Conference in Jyväskylä, Finland, 2−4 September 2015.

Hägerhed Engman, L., Ylmén, P., Englund, F. (2012). OPEN House – öppet europeiskt miljöklassningssystem för byggnader. *Bygg & Teknik,* 2012:2

Suttie E, Englund F, Viitanen H, Thelandersson S, Jermer J, Grüll G (2011). Proforma and guidance document for performance inspection of exterior wood cladding and decking. BRE Report 274243, BRE, Garston.

Suttie E, Englund F, Viitanen H, Podgorski, L, Bollmus, S, Grüll G (2011). Inspection proformas and images from buildings in Austria, Finland, France, Germany, Sweden and the United Kingdom. DVD from WoodExter Task 2.1, BRE, Garston.

S. Olsson, E. Östmark, R. E. Ibach, K. Segerholm, F. Englund (2011). The use of esterified lignin for synthesis of durable composites. Poster at the Nordic Polymer Days, June 15-17 2011, Stockholm.

Englund, F. (2010). Standardization related to Service Life Planning. *SP Report* 2010:37, SP Technical Research Institute of Sweden, Stockholm.

Englund, F. (2010). Durability by design of wooden cladding and decking – an overview of guidelines and information sources. *SP Report* 2010:38, SP Technical Research Institute of Sweden, Stockholm.

Fjaestad, M. (red.), Englund, F., Ferm, M., Karlsson, A. och Mattsson, E. (2010). Bevarande innemiljö? – Neutrala material i museimiljö. Rapport, Riksantikvarieämbetet (Swedish National Heritage Board)

Suttie, E., Englund, F. (2010). Service life prediction for exterior timber cladding. International Research Group on Wood Protection, Doc. IRG/WP 10-20460, Stockholm, Sweden.

F. Englund (2008). COST Action E37, Task Force Performance Classification. Final Report Available at http://www.bfafh.de/inst4/45/pdf/tfcombnd.pdf

Englund, F., VanAcker, J., Rapp, A. (2008). Report Performance Classification – a strategy for wooden products. *Proceedings of the COST Action E37 Final Conference*, Bordeaux, France, September 28-30, pp. 53-62, and available online (as of February 15, 2009) at http://www.bfafh.de/inst4/45/pdf/11englun.pdf.

Mazela, B., Englund, F. (2008). COST Action E37 WG3 'Properties': Outcome overview. *Proceedings of the COST Action E37 Final Conference*, Bordeaux, France, September 28-30, pp. 141-145.

A. Jarnehammar, I. Nilsson, F. Englund (2008). Trästaden ett uthålligt koncept. Erfarenheter från 10 års drift av Välludden. IVL Rapport B1799.

COST Action E37, Task Force Performance Classification (2007). Report to the COST Action Management Committee. Available at http://www.bfafh.de/inst4/45/pdf/tfcombnd.pdf

F. Englund (2006). How to win friends and influence the market — Service Life Prediction and performance-based durability assessments of wood products in construction, International Research Group on Wood Protection, doc. IRG/WP 06-20348

Wålinder, M., Englund, F., Sterley, M. and Furó, I. (2005). Morphology, micromechanics, chemical degradation and moisture behaviour of the Vasa wood. 18 months status report. Internal report. SMM, Stockholm, Sweden.

Edlund, M.-L., F. Englund, J. Jermer, T. Nilsson, M. Westin, K. Ödéen (2004). Test methods — Performance based requirements. International Research Group on Wood Protection, Doc. No. IRG/WP 04-20297

F. Englund (2003). Pinosylvin — möjligheter för utvinning och nyttiggörande. Rapport P 0311041, Trätek, Stockholm.

F. Englund (2003). Alternativ för djupverkande vattenavvisning hos trä. Rapport P 0309022, Trätek, Stockholm.

F. Englund (2003). Marknära fasadpanel — resultat från ett tioårigt fältförsök. Rapport P 0309023, Trätek, Stockholm.

S. Berg, F. Englund, A. Jarnehammar, R. Johansson, E.-L. Lindholm (2003). Kollagring i den skogsindustriella sektorn i Sverige — Beräkningar för sektorn som helhet och i byggnader. Rapport P 0302007, Trätek, Stockholm.

S. Berg, F. Englund, A. Jarnehammar, R. Johansson, E-L. Lindholm (2002). Kollagring i den skogsindustriella sektorn i Sverige.

F. Englund (2001). Nordiskt barrträ i rätt beständighetsklass. Trätek Rapport L 0112049.

F. Englund, I. Johansson, J. Ekstedt, R. Nussbaum (2000). Quality assured wooden sidings — criteria, performance evaluations and current status. International Research Group on Wood Preservation, Doc. No. IRG/WP 00-20216

I. Johansson, P.-A. Fjellström, L. Lindberg, F. Englund (2000). Betydelsen av konstruktiva detaljlösningar för träfasader — en underhandsrapport. Trätek Rapport P 0012043.

F. Englund (2000). Framtida redovisning av byggprodukters inverkan på innemiljön? Sammanfattning av seminarium 3 februari 2000. Folkhälsoinstitutet, Stockholm.

F. Englund (1999). Emissions of volatile organic compounds (VOC) from wood, Trätek Rapport I 9901001.

V. Hansen, A. Larsen, P. Wolkoff (eds.) (1999). Round Robin: Chemical Emission Testing by use of FLEC, Report NORDTEST Project 1390-98

F. Englund, R. Nussbaum (1999). Avgivning av flyktiga ämnen vid virkestorkning. Trätek Kontenta 9911050.

F. Englund (1997).Flyktiga ämnen från trä och träprodukter. Trätek Kontenta 9704042.

Nussbaum, R., Englund, F. (1997). Utsläpp till luft av flyktiga organiska ämnen (VOC) från virkestorkar — förstudie, Trätek Rapport P 9709085.

A. Larsen, F. Englund, T. Kristensen, T. Opdal, K. Saarela, L. Suomi-Lindberg, T. Tirkkonen, L. Winther-Funch (1998). *Emission from wood-based products*, Report to Nordic Wood — Wood and Environment, DTI (Copenhagen), NTI (Oslo), Trätek (Stockholm), VTT (Helsinki), ISBN 87-7756-509-6 and 87-7756-511-8.

F. Englund (1997). Kapitel 10 ”Luftkvalitet” i ”Kvarngården — trähus i tre våningar”, Rapport TABK – 97/3042, Lunds Tekniska Högskola, ed. Tomas Broman.

F. Englund (1996). Moisture dynamics of some wood protection systems. *Durability of Building Materials and Components 7(Volume One)*, ed. C. Sjöström, pp. 768-777, E & FN Spon, London, 1996.

F. Englund, A. Larsen, L.W. Funch, K. Saarela, T. Tirkkonen (1996). Emissions of VOC from Wooden Floors, Surface Treated with Oils and Waxes, *Proc. Indoor Air ´96*, *7th Int. Conf. On Indoor Air Quality and Climate, Nagoya , Japan,* **3**, 89-94.

F. Englund, L.-E. Harderup (1996), Indoor Air VOC levels during the First Year of a New Three-Story Building with Wooden Frame, *Proc. Indoor Air ´96*, *7th Int. Conf. On Indoor Air Quality and Climate, Nagoya , Japan,* **3**, 47-52.

F. Englund, B.-I. Andersson, M. Erlandsson, R. Nussbaum (1996). Environmental declarations of building products — new tools for architects and purchasers, Allergistämman ´96, Stockholm, 17-18 november 1996, Folkhälsoinstitutet, Vårdalstiftelsen.

B.-I. Andersson, F. Englund (1995). Selection of building materials for healthy buildings, with special reference to wood products, Trätek Rapport I 9411057.

F. Englund, J. Kristensson (1995). Emissions of volatiles from Nordic timber species, *Proc. of Int. Symp. Indoor Air Quality in Practice*, eds. G. Flatheim, K.R. Berg, K.I. Edvardsen, pp. 123-134, ISIAQ, Oslo, June 1995

F. Englund (1995). Värdering av hälsoeffekter av flyktiga ämnen från trä och träprodukter — gränsdragning och inventering. Trätek Rapport P 9510035.

F. Englund (1994) Water uptake in laboratory test panels. A comparison of test methods. in *Durability of painted exterior wood panelling*, ed. J. Bjurman, Nordic Conference Proceedings, Uppsala, April 1994, pp. 85-90

F. Englund, B.-I. Andersson (1994). Emissioner av flyktiga ämnen från trä och träprodukter. En översikt av internationell forskning (Emissions of volatile compounds from wood and wood products. A survey of current international research), Trätek Rapport I 9404023.

B.-I. Andersson, F. Englund (1994). Selection of building materials for healthy buildings, with special reference to wood products, 259-263, *Proc. Healthy Buildings '94*, CIB-ISIAQ-HAS, Budapest, 1994.

Englund, F., Andersson, B.-I. 1994. Flyktiga ämnen i inomhusluften, Trätek Kontenta 9412067.

F. Englund (1993). Water-borne water repellents for wood. In *Moisture in Coated Exterior Wood Panelling*, Nordic Seminar, April 1993 (ed. S. Hjort), Chalmers Univ. of Technology, Gothenburg, Publication P-93:2, pp. 62-68

G. Östberg, F. Englund (1992). Vattenbaserade vattenavvisande medel för impregnering av trä (Water-based water repellents for treatment of wood). Trätek Rapport I 9105028.