

Curriculum Vitae

Name: Øyvind Weiby Gregersen
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oyvind.w.gregersen@ntnu.no
Born: 9th March 1970
Nationality: Norwegian

Education:

1992: Diploma Engineer (*Siv.ing.*) in Chemical Engineering at University of Trondheim,
1998: Ph.D. in Chemical Engineering at Norwegian University of Science and Technology (NTNU). Thesis: "On the assessment of effective paper web strength" (Thesis advisor: Prof. Torbjørn Helle).

Work experience:

<i>Place</i>	<i>Period</i>	<i>Occupation</i>
NTH/STFI/NTNU	1994-1999	PhD-studies
PFI	1998-2000	Researcher
NTNU/ Norske Skog	2000-2001	Post Doc.
PFI	2001-2002	Research Director
NTNU	2003-	Professor
NTNU	2009-2013	Head of department
NTNU	2013-	Vice-dean for education and dissemination

Project management and general management experience

I am currently the vice-dean for education and dissemination of the faculty of Natural Sciences and Technology at NTNU. From august 2009 to July 2013 I was the head of the Chemical engineering department at NTNU which have 150 employees. I have been the group leader of the Biorefinery and fibre technology group (8-10 people) since 2003. From 2001-2002 I was research director of the Paper and Fibre Technology group of PFI and as such also a member of the leader group of the institute. As a researcher at PFI, Research director of PFI and since 2003 scientific advisor of PFI I have been project manager for 6 research projects. The topics have been runnability, paper 2D and 3D structure and paper dimensional stability (in and out of plane) and production and use of nanofibrillar cellulose (NFC).

PhD-students

Rune Holmstad: Methods for paper structure characterisation by means of image analysis, Finished September 2004
Marianne Haugan – Bleaching of TMP fines – Finished June 2006
Øyvind Eriksen – Print through properties – Finished 8. December 2006
Håkon Nordhagen – Fracture mechanics and runnability of kraft reinforced printing papers – Finished February 2009
Sara Paunonen – Mechanical properties of solid board exposed to moisture – Finished October 29, 2010.
Mihaela Tanase – Extractives removal during TMP production – Finished March 18 2011
Marius Rusu – Energy effective mechanical pulping – Finished April 12 2011

Galina Rodionova – Chemical modification of microfibrillar cellulose – Finished December 2. 2011

Collin Hii – Energy effective drying of paper – Finished December 16 2012.

Tuan-Ahn Nguyen- Barrier and adhesion properties of MFC and hybrid polymers – Finished November 28. 2013.

Hanne Narvestad – Effect of metal ions on SC-paper quality –Finished October 27 2014

Vegar Ottesen- Interactions Between Cellulose Nanofibrils and Paper Components

Jonathan Torstensen - Developing a cellulose nanofiber - polymer composite with embedded carbonic anhydrase enzyme for CO₂ extraction applications

Zaib Jahan – Polymer membranes containing nanocellulose and mimic enzyme for CO₂-separation from biogas

PhD Opponent/committee member

2002 N. Stenberg	KTH
2004 R.J. Roberts	Australian National University
2005 D. Wanigaratne	Monash University
2007 G. Pettersson	Mid Sweden University
2007 H. Kjellgren	Karlstad University
2008 J.-E. Berg	Mid Sweden University
2009 D. Ma	Helsinki University of Technology
2010 H. Karlsson	Karlstad University
2011 J. Letho	Aalto University
2013 F.W. Brodin	Chalmers University of Technology
2016 P. Sirviö	Åbo Akademi University

International research collaboration

I have experience from international research collaboration from my year as a guest PhD-fellow at STFI in Stockholm, from the management of a PFI project aiming at characterizing the 2D and 3D structure of paper and through participation in the EU-project “Acoustic emission applied to mechanically loaded paper”. 14 of the papers in my publication list are the result of such collaboration. The last 7 years I have had close research cooperation with the Mid Sweden University and this has resulted in one patent, one new company and several journal articles.

Other activities

- Initiated the COST Action E32: “Characterisation of paper surfaces for improved printing paper grades”
- Secretary of the TAPPI Paper Physics Committee September 2005- June 2007, vice chair June 2007-June 2009, Chair June 2009-2011.
- Member of the Editorial Board of Nordic Pulp and Paper Research Journal from 2005.
- Chair of the Organizing and Program committee of The 2004 Progress in Paper Physics Seminar.
- Member of the scientific committee of “The 2003 Paper Physics Conference” and “2007 Paper Physics Conference”.
- Chair of the Program board for the “Industrial chemistry and biotechnology” study program of NTNU 2006-2009.
- Member of 5 committees for appointment of professors within the pulp and paper field in Europe and North America.

Publication list

1. Gregersen Ø.W., Johnsen P.O., Helle T. "Small Scale Topographical Variations of Paper Surfaces, and their Effects on Printing Ink Transfer Distribution", 1994 International Printing and Graphic Arts Conference, p. 271-281, Technical section CPPA, Quebec (1994).
2. Gregersen Ø.W., Skinnarland I., Johnsen P.O., Helle T., "Methods for the Studying of Lignin Containing Surface Layers on Mechanical Pulp Fibres and Paper", 1994 International Progress in Paper Physics - A Seminar, Poster, Institute of Paper Science and Technology, Atlanta (1994).
3. Gregersen Ø.W., Skinnarland I., Johnsen P.O., Helle T., "Qualitative Methods for the Studying of Lignin Distribution in Wood and Surface Layers of Unbleached Pulp Fibres and Paper", Journal of Pulp and Paper Science, 21:J285 (1995).
4. Gregersen Ø.W., Johnsen P.O., Helle T. "Small Scale Topographical Variations of Newsprint Surfaces and their Effects on Printing Ink Transfer Distribution", Journal of Pulp and Paper Science, 21: J331 (1995).
5. Gregersen Ø.W., Skinnarland I., Johnsen P.O., Helle T., "Application of BEI for analysis of chemical composition of wood fibre components in the paper industry" SCANDEM, p. 64-65, Trondheim, (1995) ISBN 82-993546-0-9
6. Johnsen P.O. Berglie S.E. Skinnarland I. Gregersen Ø.W. Helle T., "Image analysis on BEI micrographs of wood fibre cross sections", SCANDEM, p. 92, Trondheim, (1995). ISBN 82-993546-0-9
7. Gregersen Ø.W., Helle T. and Nordling A., "Effects on paper by wet pressing against a thin, elastic rubber blanket", Poster, 1995 International paper physics conference, Niagara-on-the-Lake, 11-14/9 1995.
8. Gregersen Ø.W., Fellers C., Nilsson F., Wellmar P., and Delhage L., "Application of non linear fracture mechanics to paper", 1996 Progress in Paper Physics - A Seminar, p.131-133, STFI, Stockholm (1996).
9. Fjerdings H., Forseth T., Gregersen Ø.W., Helle T., Johnsen P., Kure K. and Reme P., "Some mechanical pulp fibre characteristics, their process relationships and papermaking significance", The fundamentals of papermaking materials, 11th Fundamental research symposium in the Oxford and Cambridge series, p. 547-605, Cambridge (1997).
10. Helle T., Johnsen P.O., Gregersen Ø.W., Skinnarland I., "Methods to study the coverage of lignin rich material in fibres and paper surfaces", NORDPAP, SCAN Forsk-rapport 693, (1997).
11. Gregersen Ø.W., "Mikroskopistudier av arktvernsnitt – Teknikutvecklingen har gett oss nya möjligheter", Ekmandagarna 1998, SPCI, Stockholm, Sverige.
12. Gregersen Ø.W., Hansen Å., and Helle T., "Evaluation of newsprint strength and runnability by using Weibull statistics", 1998 Progress in Paper Physics - A Seminar, PAPRICAN, Vancouver, Canada, (1998).
13. Gregersen Ø.W., "On the assessment of effective paper web strength", Dr.ing.-avhandling, august, 1998.
14. Helle, T., Gregersen, Ø.W., "Fibre properties studied by microscopy", Proceedings: Improvement of recyclability and the recycling paper industry of the future, Eds. A. Bianco and C. Negro, COST Action E1 Paper Recyclability, Las Palmas de Gran Canaria, 24-26 Nov. 1998.
15. Gregersen, Ø.W., "Kan papersbanans effektiva styrka beräknas med Weibullstatistik?", Ekmandagarna 1999, SPCI, Stockholm, Sverige.
16. Gregersen, Ø.W., Helle, T., Johnsen, P.O., Kure, K.-A., Reme, P.A., "Application of SEM to evaluate cross

sections of fibres in wood and pulp”, Microscopy as a tool in pulp and paper research and development, STFI, Stockholm 21-22 June 1999.

17. Reme, P.A., Kure, K.-A., Gregersen, Ø.W., Helle, T., “Optimal mechanical pulp fibres for improved publication paper: Targets and treatments”, Proceedings 1999 International Mechanical Pulping Conference, Huston, May 1999.
18. Gregersen, Ø.W., Hansen, Å., Helle, T., “The influence of shives on newsprint strength”, Proceedings 1999 Paper Physics Conference, San Diego, September 1999.
19. Samuelsen, E.J., Houen, P.J., Gregersen, Ø.W., Helle, T., Raven, C., “Three-dimensional imaging of paper by use of synchrotron x-ray microtomography”, Proceedings 1999 Paper Physics Conference, San Diego, September 1999.
20. Gregersen, Ø.W., Niskanen K., “Measurement and simulation of paper 3D-structure”, COST E11, Characterization Methods for Paper and Pulp Conference / Workshop at PTS, Munich, December 1-3 1999.
21. Wellmar, P., Gregersen, Ø.W., Fellers, C., "Prediction of crack growth initiation in paper structures using a J-integral criterion", Nordic pulp and paper research journal, 15:1. pp 4-11, (2000).
22. Gregersen, Ø.W., Hestmo, R.H., Kvande, K., "Fibre wall damage caused by calendering", Nordic conference on paper calendering, Trondheim, Norway, June 19-20, 2000.
23. Gregersen, Ø.W., Hansen, Å., Tufa, L.D., Helle, T., "The influence of fibre shives on calender cuts in newsprint", Journal of Pulp and Paper Science, 26 no 5, p 176-179, 2000.
24. Samuelsen, E.J., Gregersen, Ø.W., Houen, P. J., Helle, T., Raven, C., Snigirev, A. "Three-dimensional imaging of paper by use of synchrotron x-ray microtomography", Journal of Pulp and Paper Science, 27 no 2, p50-53, 2001.
25. Hestmo, R.H., Gregersen, Ø.W., Lamvik, M., “Calendering of wood containing paper: A laboratory study of temperature, moisture and pressure effects on fibre wall damage”, Nordic Pulp and Paper Research Journal, 17 no 1, p 9-13, 2002.
26. Holmstad, R., Ramaswamy, S., Goel, A., Gregersen, Ø.W., Ramarao, B.V., “Comparision of 3D structural characteristics of high and low resolution X-ray microtomographic images of paper and board” 2003 International Paper Physics Conference, Victoria BC, 7-11/9 2003.
27. Knackstedt, M., Arns, C.H., Holmstad, R., Antoine, C., and Gregersen, Ø.W., "Characterization of 3D structure and transport properties of paper from tomographic images", The 2004 Progress in Paper Physics Seminar, Trondheim, 21-24/6 2004.
28. R. Holmstad, A. Goel, C.H. Arns M.A. Knackstedt and Ø.W. Gregersen, "Effect of papermaking variables on the detailed 3D paper structure assessed by X-ray microtomography ", The 2004 Progress in Paper Physics Seminar, Trondheim, 21-24/6 2004.
29. Eriksen, Ø., and Gregersen, Ø.W., "A study of ink pigment penetration and optical properties of laboratory sheets using scanning electron microscope", The 2004 Progress in Paper Physics Seminar, Trondheim, 21-24/6 2004.
30. Gregersen, Ø.W. “The 2004 Progress in Paper Physics Seminar”, editor and conference chairman, Trondheim, 21-24/6 2004.
31. Holmstad R, Kure K-A. Chinga G; Gregersen Ø.W., “Effect of temperature gradient multi-nip calendering on the structure of SC paper”, Nord. Pulp Pap. Res. J., vol. 19, no. 4, 2004, pp 489-494.
32. Gregersen, Ø.W. “Runnability, fracture and pressroom breaks”, Advances in paper science and technology, 13th fundamental research symposium, Cambridge, UK 11-16 Septeber 2005.

33. Eriksen, Ø. and Gregersen, Ø.W., The influence of ink pigment penetration and paper structure on print through", Nord. Pulp Pap. Res. J., vol. 20, no. 2, 2005, pp 242-246, 2005.
34. Haugan, M. and Gregersen, Ø.W., "Hydrogen peroxide bleaching of mechanical pulp fines", International Mechanical Pulping Conference: IMPC 2005, Oslo, Norway, 7-9 June 2005, pp 85-93, 2005.
35. Heum, J. R., Gregersen, Ø.W. and Johansson, "Effects of extractives on TMP refining and pulp properties", International Mechanical Pulping Conference: IMPC 2005, Oslo, Norway, 7-9 June 2005, pp 137-142, 2005
36. Holmstad, R., Gregersen, Ø.W., Aaltosalmi, U., Kataja, M., Koponen, A., Goel, A. and Ramaswamy, S., "Comparison of 3D structural characteristics of high and low resolution X-ray microtomographic images of paper", Nord. Pulp Pap. Res. J., vol. 20, no. 3, 2005, pp 283-288, 2005.
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39. Haugan, M. and Gregersen, Ø.W., "Hydrogen peroxide bleaching of mechanical pulp fines", Nord. Pulp Pap. Res. J., vol. 21, no. 1, 2006, pp 105-110, 2006.
40. Eriksen, Ø. and Gregersen, Ø. W. (2006): Ink pigment location measured as the position of clay in yellow coldset ink, accepted for publication Nord. Pulp Paper Res. J. 21(4). 2006.
41. Haugan, M. and Gregersen, Ø.W., "Hydrogen peroxide bleaching of mechanical pulp fines", Nord. Pulp Pap. Res. J., vol. 21, no. 1, 2006, pp 105-110, 2006.
42. Eriksen, O., Gregersen, Ø.W. and Krogstad P-A., " Pressure and vibration in the refining zone of a TMP refiner: influence of the fibre flow", Nord. Pulp Pap. Res. J., vol. 21, no. 1, 2006, pp 90-98, 2006.
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44. Lenes, M. and Gregersen, Ø.W., " Effect of surface chemistry and topography of sulphite fibres on the transcrystallinity of polypropylene", Cellulose, vol. 13, no. 4, Aug. 2006, pp 345-355, 2006.
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46. Goel A., Arns, C.R., Holmstad, R., Gregersen, Ø.W., Bauget, F., Averdunk H., Sok, R.M., Sheppard A.P. and Knackstedt, M.A., "Analysis of the impact of papermaking variables on the structure and transport properties of paper samples by x-ray microtomography" , Journal of Pulp and Paper Science", vol 32 no 3, pp 111-122, 2006
47. Eriksen, Ø. and Gregersen, Ø. W. (2006): Ink pigment location measured as the position of clay in yellow coldset ink, accepted for publication Nord. Pulp Paper Res. J. 21(4). 2006.
48. Nordhagen, H. and Gregersen Ø.W, "An investigation of strength variations in paper containing a sharp notch", 2007 International Paper Physics Conference, Gold Coast, Australia 6-9 Mai 2007
49. Eriksen, Ø. and Gregersen Ø.W., "A novel method to study the compressibility of a paper structure and the relationship with cold-set offset printing", 2007 International Paper Physics Conference, Gold Coast, Australia 6-9 Mai 2007
50. Eriksen, Ø., Johannesen E. and Gregersen Ø.W., "The influence of paper surface roughness on ink pigment

distribution”, Appita Journal, vol 60, no 5, pp 384-389, 2007.

51. Eriksen, Ø. and Gregersen, Ø.W., “The influence of ink oil on print-through”, Nord. Pulp Pap. Res. J., vol 22, no 3, pp 364-370, 2007.
52. Haugan, M. and Gregersen, Ø.W., “Fractionating: a way to save bleaching chemicals”, J. Pulp Pap. Sci., vol 33, no 3, pp 121-124, 2007.
53. Antoine, Christine; Gregersen, Øyvind Weiby.
On the three component quantification of print-through. Part 2: Effect of the ink vehicle extraction on print optical properties. Nordic Pulp & Paper Research Journal 2008 ;Volum 23.(1) s. 29-33
54. Eriksen, Øyvind; Gregersen, Øyvind Weiby; Syverud, Kristin.
The effect of MFC on handsheet surface and printing properties. Progress in Paper Physics; 2008-06-01 - 2008-06-05
55. Eriksen, Øyvind; Syverud, Kristin; Gregersen, Øyvind Weiby.
The use of microfibrillated cellulose produced from kraft pulp as strength enhancer in TMP paper. Nordic Pulp & Paper Research Journal 2008 ;Volum 23.(3) s. 299-304
56. Gregersen, Øyvind Weiby; Guldbjørnsen, Johan A..
The effect of wet strain on properties of wood-containing printing paper. Progress in Paper Physics; 2008-06-02 - 2008-06-05
57. Nordhagen, Håkon Ottar; Eriksen, Øyvind; Gregersen, Øyvind Weiby.
Strength variations in paper containing a sharp notch. Nordic Pulp & Paper Research Journal 2008 ;Vol. 23.(2) s. 189-194
58. Nordhagen, Håkon Ottar; Gregersen, Øyvind Weiby; Mäkelä, Petri.
Verification of fracture mechanics theory and aspects of its practical use. Progress in Paper Physics; 2008-06-02 - 2008-06-05
59. Paunonen, Sara Inkeri; Gregersen, Øyvind Weiby.
Effect of moisture on elastic properties of solid board. Progress in Paper Physics; 2008-06-02 - 2008-06-05
60. Rusu, Marius; Liukkonen, Sari; Gregersen, Øyvind Weiby.
The effect of wood raw material and energy input on the cross-sectional properties of TMP fibres. 6th Fundamental Mechanical Pulp Research Seminar; 2008-05-22
61. Toven, Kai; Gorski, Dmitri; Gregersen, Øyvind Weiby.
Fracture resistance of reinforced SC paper. Progress in Paper Physics; 2008-06-02 - 2008-06-05
62. Gregersen, Øyvind Weiby; Johansson, Lars. New trends in mechanical pulping. Nordisk treforedlingssymposium i Trondheim; 2009-10-08 - 2009-10-09
63. Syverud, Kristin; Gregersen, Øyvind Weiby; Chinga-Carrasco, Gary; Eriksen, Øyvind.
The Influence of Microfibrillated Cellulose, MFC, on Paper Strength and Surface Properties. I: *Advances in Pulp and Paper Research, Oxford 2009*. : The Pulp & Paper Fundamental Research Society 2009 ISBN 978-0-9545272-6-6. s. 899-930
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Validation of isotropic deformation theory of plasticity for fracture mechanics analysis of paper materials. *Nordic Pulp & Paper Research Journal* 2009 ;Volum 24.(4) s. 388-394
65. Iotti, Marco; Gregersen, Øyvind Weiby; Moe, Størker; Lenes, Marianne.
Rheological Studies of Microfibrillar Cellulose Water Dispersions. *Journal of polymers and the environment* 2010 ;Volum 19:137–145

66. Paunonen, Sara Inkeri; Gregersen, Øyvind Weiby.
The Effect of Moisture Content on Compression Strength of Boxes Made of Solid Fiberboard with Polyethylene Coating—An Experimental Study. *Journal of Applied Packaging Research* 2010 ;Volum 4.(4) s. 221-240
67. Paunonen, Sara Inkeri; Lenes, Marianne; Gregersen, Øyvind Weiby.
Modeled and measured bending stiffness of polyethylene coated solid fiberboard. *Nordic Pulp & Paper Research Journal* 2010 ;Volum 25.(3) s. 358-364
68. Paunonen, Sara Inkeri; Lenes, Marianne; Gregersen, Øyvind Weiby.
Moisture content of polyethylene coated solid fiberboard after industrial lamination. *Packaging technology & science* 2011
69. Rodionova, Galina; Lenes, Marianne; Eriksen, Øyvind; Gregersen, Øyvind Weiby.
Surface modification of Microfibrillated Cellulose films by Gas-Phase Esterification: Improvement of Barrier Properties. *Cellulose (London)* 2011 ;Volum 8.(1) s. 127-134
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TEMPO-oxidized cellulose nanofiber films: effect of surface morphology on water resistance. *Cellulose (London)* 2012 ;Volum 19.(4) s. 1115-1123
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The formation and characterization of sustainable layered films incorporating Microfibrillated Cellulose (MFC). *BioResources* 2012 ;Volum 7.(3) s. 3690-3700
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Effects of hydrophobic polyhedral oligimeric silsesquioxane coating on water vapour barrier and water resistance properties of paperboard. *Journal of Sol-Gel Science and Technology* 2013 ;Volum 68. s.
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Gas-phase esterification of microfibrillated cellulose (MFC) films. *Cellulose (London)* 2013 ;Volum 20.(3) s. 1167-1174
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Characterization of Nanofibers and Nanofiber Dispersions. *Journal of polymers and the environment* 2013 ;Volum 21.(1) s. 207-214

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EVALUATION OF COLLIMATED CHIPPING TECHNOLOGY FOR REDUCING ENERGY CONSUMPTION IN MECHANICAL PULPING. *Pulp & paper Canada* 2013 ;Volum 114.(6) s. 27-30
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Cellulose nanofibrils: Challenges and possibilities as a paper additive or coating material - A review. *Nordic Pulp & Paper Research Journal* 2014 ;Volum 29.(1) s. 156-166
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Effects of hydrophobic polyhedral oligomeric silsesquioxane coating on water vapour barrier and water resistance properties of paperboard. *Journal of Sol-Gel Science and Technology* 2014 ;Volum 69.(2) s. 237-249
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Patents

SE 1000210 A1, Hellström, L., Engstrand, P., Carlberg, T., Gradin, P. and Gregersen, Ø., "Metod för framställning och behandling av flis", Publiceringsdag 2011-10-04.