

BIOGRAPHY

PROF. JAN-ANDERS E. MANSSON



Professor Jan-Anders E. Mansson, born 1952 in Örkelljunga, Sweden, is married to Queenin Chang Mansson and has two children, Hanna 18 and Johannes 23. He obtained in 1981 his PhD-degree in Mechanical Engineering from Chalmers University of Technology in Gothenburg, Sweden. After 5 years as head of the R&D department at KB Component AB, Sweden, he moved in 1985 to an academic position at the University of Washington, Seattle. In 1987, he was appointed Professor at the University of Washington (Department of Chemical Engineering), and in 1989 Professor at the Royal Institute of Technology (joint appointment Department of Polymer Technology and Aeronautical and Vehicle Engineering), Stockholm.

In 1990, Mansson joined the Ecole Polytechnique Fédérale de Lausanne (EPFL) as Professor and Director of a newly created chair in Polymer and Composite Technology (LTC) at the Institute of Materials. His research at EPFL-LTC focused on novel cost-effective materials and manufacturing methods as well as unique additional functionalities, beyond the classical performance characteristics of composite materials. Scaling strategies for industrial implementation has been a focus since the beginning. Research including partners in the automotive, aerospace, chemical, medical and sport industries has led to over 700 scientific publications and a number of patents and patent applications. Current h-index of 50.

While maintaining his research program at EPFL, Prof. Mansson was Head of the Materials Department (2000 – 2004), followed by being named Vice-President for Innovation and Technology Transfer (2004 – 2008), a newly created position with the mission to build-up a “new” tech-transfer interface. During the period 2000-2008, he also served as Swiss Focal Point, under the Swiss Federal Science Agency for the cooperation in Science and Technology with the Republic of Korea. In 2008, Prof. Mansson was elected President of the International Academy of Sports Science and Technology (AISTS), an International Olympic Committee (IOC) co-founded organization linking Academic Institutions in Sport Management and Technology.

In 2016 Prof. Mansson joined Purdue University as Distinguished Professor in Materials and Chemical Engineering and as Director of the Composite Manufacturing and Simulation Center (CMSC). In 2018 he founded the related Manufacturing Design Laboratory (MDLab); a fully functional Industry 4.0 Composite Manufacturing testbed. He also serves as Co-Executive Director for Indiana Manufacturing Competitiveness Center (IN-MaC) and Purdue Coordinator for Advanced Manufacturing to the Wabash Heartland Innovation Network (WHIN).

In 2019, Mansson founded and became the Executive Director of the newly created Ray Ewry Sports Engineering Center at Purdue, a collaboration between the College of Engineering and Purdue Intercollegiate Athletics, with close links to the International Olympic Committee (IOC). He is currently also the Chairman of the Swimwear Approval Committee of the International Federation of Swimming (FINA) and on the Board of IOC's Athlete365 Learning Gateway.

Prof. Mansson is also the founder of the composite company, EELCEE Ltd., active in the field of High-Volume Composites and Additive Manufacturing with its main operations in Korea and USA.

In addition of being a World Fellow of the International Committee on Composite Materials, he is member of the Royal Swedish Academy of Engineering Sciences, IVA, and the Swiss Academy of Engineering Sciences, SATW.

CURRICULUM VITAE

PROF. JAN-ANDERS E. MANSSON

PERSONAL DATA

Address: 1500 Northwestern Ave.
West Lafayette, IN 47906

Date of birth: 11 March, 1952, Örkelljunga, Sweden
Private status: Married Queenin Chang-Mansson, children Johannes 23, Hanna 18

Education:

1981 Doctor of Philosophy
Chalmers University of Technology, Dept. of Polymeric Materials
Gothenburg, Sweden

1977 Bachelor / Master of Science
Chalmers University of Technology, Mechanical Engineering
Gothenburg, Sweden

EMPLOYMENT HISTORY

2016 – present Distinguished Professor of Materials and Chemical Engineering
Schools of Materials and Chemical Engineering
Purdue University

2018 – present Courtesy appointment in School of Aeronautics and Astronautics
Purdue University

2016 – present Director of the Composites Manufacturing Simulation Center
Purdue University

2018 – present Executive Co-Director of Indiana Manufacturing Competitiveness
Center (IN-MaC),
Purdue University

2019 – present Purdue Coordinator for Advanced Manufacturing
Wabash Heartland Innovation Network (WHIN), Purdue University

2019 – present Executive Director of Ray Ewry Sports Engineering Center
Purdue University

1990 - 2016 Professor and Laboratory Director
Laboratoire de Technologie des Composites et Polymères (LTC),
Ecole Polytechnique Fédérale de Lausanne (EPFL),
Institut des Matériaux (IMX), Lausanne, Switzerland

2008 - 2016	President International Academy of Sports Science and Technology (AISTS)
2004 – 2008	Vice-President Ecole Polytechnique Fédérale de Lausanne (EPFL) Spec. responsibility: Innovation and Tech-Transfer
2000 - 2004	Director of the Institut des Matériaux Ecole Polytechnique Fédérale de Lausanne (EPFL)
1989 -1990	Professor, KTH, Royal Institute of Technology Department of Polymer Technology and Department of Aeronautical Structures and Materials Stockholm, Sweden
1987 – 1989	Assistant Professor
1985 - 1987	Post-Doctoral Fellow University of Washington, Department of Chemical Engineering Polymeric Composite Laboratory, Seattle, Washington, USA
1981-1985	Head of R&D Department Konstruktions-Bakelit AB, Örkelljunga, Sweden
1977-1981	Teaching and Research Assistant Chalmers University of Technology, Dept. of Polymeric Materials Gothenburg, Sweden

SOME FACTS AND FIGURES FROM THE RESEARCH (MAIN PERIOD 1990-2020)

Publications (for details attached listing)	Mansson	Additional publ. from laboratory headed by Mansson
Journals (peer reviewed)	351	83
Conference Proceedings	354	76
Books	2	1
Book chapters	8	2
Patents & Pat. Applications	Mansson	
	45	
PhD Theses, MS theses and Student Projects	Mansson	
PhD-thesis directed	67	
Student projects directed or co-directed	422	

MAIN RECOGNITIONS AND ENGAGEMENTS (CURRENT AND RECENT)

Recognitions

- The Royal Swedish Academy of Engineering Sciences, IVA.
- Swiss Academy of Engineering Sciences, SATW.
- World Fellow International Committee of Composite Materials
- Society of Plastics Engineering Fellow

Current engagements

Academic:

- Composites Manufacturing Simulation Center, Purdue University (Director)
- Indiana Manufacturing Competitiveness Center (IN-MaC) (Executive Co-director)
- Wabash Heartland Innovation Network (WHIN) (Purdue Coordinator for Advanced Manufacturing)
- Ray Ewry Sports Engineering Center at Purdue (Executive Director)

Institutional:

- Antidoping Switzerland Foundation (Board member)
- International Federation of Swimming, FINA, Approval Com. (President)
- International Olympic Committee (IOC) Program, "IOC Athlete 365" (Member)

Industry:

- HEXPOL AB (Board member)
- EELCEE Ltd. (Founder)

Other recent engagements

- Int. Academy of Sports Science and Technology, AISTS, (President)
- Royal Institute of Technology, Stockholm, KTH, (Board member)
- Swiss Federal Laboratory for Materials, EMPA, (Advisory board)
- The Royal Swedish Academy of Engineering Sciences (IVA), Audit committee of Swedish Foundation for Strategic Research (SSF) (Member)
- World Economic Forum, WEF, Global Agenda Council (Work group Member)
- Lund University (Advisory Board)
- Swedish Government Agency for Innovation, VINNOVA, (Board Member)
- Korean Inst. of Science and Technology, KIST, (Advisory Board)
- International Olympic Committee (IOC) (Consultant to IOC Entourage Commission)
- Int. Cycling Union, UCI, (Equipment Commission Member)
- Swiss Olympic bid - Graubünden 2022 (Steering Commission NIV)

PUBLICATIONS

PROF. JAN-ANDERS E. MANSSON

THE LIST CONTAINS:

- BOOKS
- BOOK SECTIONS
- ISI JOURNAL PUBLICATIONS
- CONFERENCE PROCEEDINGS
- PATENTS AND PATENT APPLICATIONS

BOOKS

1. Lundquist, L., Y. Leterrier, P. Sunderland and J.-A. E. Månson (2000). Life Cycle Engineering of Plastics: Technology, Economy and the Environment, Elsevier, Amsterdam.
2. P.-E. Bourban, L. Carlsson, J.-P. Mercier, J.-A. E. Månson, (2004). Matériaux composites à matrice organique (Traité des Matériaux volume 15). Lausanne, PPUR.

BOOK SECTIONS

1992-2000

1. Månson, J.-A. E. (1992). Advanced Thermoplastic Composites/Characterization and Processing. Processing of Thermoplastic-Based Advanced Composites. H.-H. Kausch. Munich, Carl Hanser Verlag. chap. 9: 270-301.
2. Månson, J.-A. E. (1994). New demands on manufacturing of composite materials, in high-performance composites. High Performance Composites - Commonality of Phenomena. K. K. Chawla, P. K. Liaw and S. G. Fishman, TMS, Warrendale, PA: 1-19.
3. J. Lange, A. Hult, J.-A. E. Månson, Development of properties during cure of epoxy and acrylate coating materials, in Film Formation in Waterborne Coatings, T. Provder, M. A. Winnik, M. W. Urban, Eds. (ACS Symposium Series 648, 1996), Chapter 12, pp. 200-209.
4. Bourban, P.-E. and J.-A. E. Månson (1998). Integrated manufacturing. Polypropylene: an A-Z Reference. J. Kager-Kocsis. London, Chapman & Hall: 341-347.
5. J.-A. E. Månson, M. D. Wakeman, N. Bernet (2000), Composite Processing and Manufacturing—An Overview, in Comprehensive Composite Materials, A. Kelly, C. Zweben, Eds., Elsevier, Amsterdam, pp. 577–607.

2001-present

6. Wakeman, M. D. and J.-A. E. Månson (2005). Chapter 6: "Composites manufacturing - thermoplastics". Design and manufacture of textile composites. A. Long. Cambridge, U.K., Woodhead Publishing Ltd.
7. Wakeman, M. D. and J.-A. E. Månson (2005). Chapter 10: "Cost analysis". Design and manufacture of textile composites. A. Long. Cambridge, U.K., Woodhead Publishing Ltd.
8. Suárez, G., J. Y.-H., A. J., Berchtold S., Knapp H.F., Diserens J.M., Leterrier Y., Månson J.-A.E. and Voirin G. (2009). Lab-on-a-Chip for Analysis and Diagnostics: Application to Multiplexed Detection of Antibiotics in Milk. Nanosystems Design and Technology'. L. Y. Micheli G., Gijs M., Vörös J. Berlin, Springer.

ISI JOURNAL PUBLICATIONS

1990

1. Chapman, T. J., J. W. Gillespie, R. B. Pipes, J.-A. E. Månson and J. C. Seferis (1990). "Prediction of process-induced residual stresses in thermoplastic composites." *J. Composites Materials* 24(6): 616-643.
2. Lawrence, W. E., J.-A. E. Månson and J. C. Seferis (1990). "Thermal and morphological skin-core effects in processing of thermoplastic composites." *Composites* 21: 475.
3. Månson, J.-A. E. (1990). "Process induced structures and properties in PEEK-based advanced composites." *Swiss Materials* 2(1): 31-36.
4. Månson, J.-A. E., T. L. Schneider and J. C. Seferis (1990). "Press-forming of continuous-fiber-reinforced thermoplastic composites." *Polymer Composites* 11(2): 114-120.
5. Nelson, K. M., J.-A. E. Månson and J. C. Seferis (1990). "Compression thermal analysis of the consolidation process for thermoplastic matrix composites." *Journal of Thermoplastic Composite Materials* 3: 216-232.
6. Nelson, K. M., R. B. Prime, J.-A. E. Månson and J. C. Seferis (1990). "The pyrolytic characterization of a surfactant/polymer/ceramic composite system using combined thermogravimetric analysis - mass spectrometry." *Journal of Applied Polymer Science* 41(1-2): 301-309.

1991

7. Davies, P., J.-A. E. Månson, M. Roulin, H. H. Kausch, B. Echalié and R. Jacquemet (1991). "Structure and properties of a stampable thermoplastic composite." *Journal of Thermoplastic Composite Materials* 4: 285-298.
8. Lee, W. J. and J.-A. E. Månson (1991). "Polymer composite processing: factors influencing process selection." *SAE special publications: Polymer Composites Applications for Motor Vehicles* 850: 35-46.

1992

9. Gibson, A. G. and J.-A. E. Månson (1992). "Impregnation technology for thermoplastic matrix composites." *Journal of Composites Manufacturing* 3(4): 223-233.
10. Månson, J.-A. E. and J. C. Seferis (1992). "Process simulated laminate (PSL): a methodology to internal stress characterization in advanced composite materials." *Journal of Composite Materials* 26: 405-431.

1993

11. Bidaux, J.-E., L. Bataillard, R. Gotthardt and J.-A. E. Månson (1993). "Phase transformation behavior of thin shape memory alloy wires embedded in a polymer matrix composite." *Journal de Physique IV, colloque C7, supplément au J. de Physique III* 3: 561-564.
12. Bidaux, J.-E., J. Hilborn and J.-A. E. Månson (1993). "Toughening of glass filled epoxy by in-situ interface control." *Polymer Preprints* 34(1): 639-640.
13. Davies, P. and J.-A. E. Månson (1993). "Rheological properties of stampable thermoplastic composites." *Journal of Thermoplastic Composite Materials* 6: 239-254.
14. Lange, J., A. Hult and J.-A. E. Månson (1993). "Stress build-up during the reaction of thermoset films cured above their ultimate T_g ." *Polymer Materials: Science and Engineering* 68: 222-233.

1994

15. Lange, J., A. Hult and J.-A. E. Månson (1994). "Defects in solvent-free organic coatings studied by atomic force microscopy, scanning acoustic microscopy and confocal laser microscopy." *Journal of Coatings Technology* 66(838): 19-26.

16. Leterrier, Y., Y. Wyser, J. A. E. Månson and J. Hilborn (1994). "A method to measure the adhesion of thin glass coatings on polymer-films." *Journal of Adhesion* 44(3): 213-227.
17. Toll, S. and J.-A. E. Månson (1994). "Dynamics of a planar concentrated fiber suspension with non-hydrodynamic interaction." *Journal of Rheology* 38(4): 985-997.

1995

18. Bidaux, J.-E., N. Bernet, C. Sarwa, R. Gotthardt and J.-A. E. Månson (1995). "Vibration frequency control of a polymer beam using embedded shape memory-alloy fibres." *Journal de Physique IV, Colloque C8, supplément au Journal de Physique III 5*: 1177-1182.
19. Bidaux, J.-E., W. J. Yu, R. Gotthardt and J.-A. E. Månson (1995). "Modelling of the martensitic transformation in shape memory alloy composites." *Journal de Physique IV, colloque C2, supplément au Journal de Physique III 5*: 543-548.
20. Connor, M., A. G. Gibson, S. Toll and J.-A. E. Månson (1995). "A model for the consolidation of aligned thermoplastic powder impregnated composites." *Journal of Thermoplastic Composite Materials* 8: 138-162.
21. Connor, M., P. H. Harding, J. C. Berg and J.-A. E. Månson (1995). "Influence of the fiber surface properties on the mechanical strength of unidirectional fiber composites." *Journal of Adhesion Science and Technology* 9: 983-1004.
22. Connor, M., S. Toll and J.-A. E. Månson (1995). "On surface energy effects in composite impregnation and consolidation." *Composites Manufacturing* 6(3-4): 289-295.
23. Lange, J., S. Toll, A. Hult and J.-A. E. Månson (1995). "Residual stress build-up in thermoset films cured above their ultimate glass transition temperature." *Polymer* 36(16): 3135-3141.
24. Toll, S. and J.-A. E. Månson (1995). "Elastic compression of a fiber network." *Journal of Applied Mechanics* 62: 223-226.

1996

25. Bidaux, J.-E., G. D. Smith, N. Bernet, J. Hilborn and J.-A. E. Månson (1996). "Fusion bonding of maleic anhydride grafted polypropylene to polyamide 6 via in situ block copolymer formation at the interface." *Polymer* 37(7): 1129-1136.
26. Eriksson, P.-A., A.-C. Albertsson, P. Boydell, G. Prautzsch and J.-A. E. Månson (1996). "Prediction of mechanical properties of recycled fiberglass reinforced polyamide 66." *Polymer Composites* 17: 830.
27. Eriksson, P.-A., A.-C. Albertsson, P. Boydell, K. Eriksson and J.-A. E. Månson (1996). "Reprocessing of fiberglass reinforced polyamide 66: influence on short term properties." *Polymer Composites* 17: 823.
28. Eriksson, P.-A., P. Bodyell, J.-A. E. Månson and A.-C. Albertsson (1996). "Durability study of recycled glass fiber reinforced polyamide 66 in a service related environment." *Journal of Applied Polymer Science* 65(8): 1631-1641.
29. Eriksson, P.-A., P. Boydell, K. Eriksson, J.-A. E. Månson and A.-C. Albertsson (1996). "Effect of thermal-oxidative ageing on mechanical, chemical and thermal properties of recycled polyamide 66." *Journal of Applied Polymer Science* 65(8): 1619-1630.
30. Huneault, M. A., M. F. Champagne and A. Luciani (1996). "Polymer blend mixing and dispersion in the kneading section of a twin-screw extruder." *Polymer Engineering and Science* 36(12): 1694 - 1706.
31. Kiefer, J., J. G. Hilborn, J. A. E. Månson, Y. Leterrier and J. L. Hedrick (1996). "Macroporous epoxy networks via chemically induced phase separation." *Macromolecules* 29(11): 4158-4160.
32. Lange, J., H. Andersson, J.-A. E. Månson and A. Hult (1996). "Microscopic, spectroscopic and rheological analysis of solvent-free organic coatings." *Surfaces and Coatings International* 79(11): 486-491.
33. Lange, J., A. Hult, B. Johansson and J.-A. E. Månson (1996). "Adhesive strength of deformed epoxy and polyester coatings." *Journal of Adhesion* 61(1-4): 159-174.

34. Lange, J., A. Hult and J.-A. E. Månson (1996). "Build-up of structure and viscoelastic properties in epoxy and acrylate resins cured below their ultimate glass transition temperature." *Polymer* 37(26): 5859-5868.
35. Pitton, Y., S. D. Hamm, F. R. Lang, H. J. Mathieu, Y. Leterrier and J. A. E. Månson (1996). "Adhesion study of SiO_x/PET films: Comparison between scratch test and fragmentation test." *Journal of Adhesion Science and Technology* 10(10): 1047-1065.

1997

36. Boogh, L., B. Petersson, P. Kaiser and J.-A. E. Månson (1997). "Novel tougheners for epoxy-based composites." *SAMPE Journal* 33(1): 45-49.
37. Connor, M., J.-E. Bidaux and J.-A. E. Månson (1997). "A criterion for optimum adhesion applied to fibre reinforced composites." *Journal of Materials Science* 32: 5059-5067.
38. Ericsson, K. A., S. Toll and J.-A. E. Månson (1997). "The two-way interaction between anisotropic flow and fiber orientation in squeeze flow." *Journal of Rheology* 41(3): 491-511.
39. Ericsson, K. A., S. Toll and J.-A. E. Månson (1997). "Sliding plate rheometry of planar oriented concentrated fiber suspension." *Rheology Acta* 36(4): 397-405.
40. Lange, J., A. Hult, J.-A. E. Månson and S. Toll (1997). "Residual stress build-up in thermoset films cured below their ultimate glass transition temperature." *Polymer* 38(4): 809-815.
41. Leterrier, Y., J. Andersons, Y. Pitton and J. A. E. Månson (1997). "Adhesion of silicon oxide layers on poly(ethylene terephthalate) .2. Effect of coating thickness on adhesive and cohesive strengths." *Journal of Polymer Science Part B-Polymer Physics* 35(9): 1463-1472.
42. Leterrier, Y., L. Boogh, J. Andersons and J. A. E. Månson (1997). "Adhesion of silicon oxide layers on poly(ethylene terephthalate) .1. Effect of substrate properties on coating's fragmentation process." *Journal of Polymer Science Part B-Polymer Physics* 35(9): 1449-1461.
43. Leterrier, Y. and C. Gsell (1997). "Rheology of layered thermoplastic matrix composites during compression molding." *International Polymer Processing* 12(1): 54-63.
44. Leterrier, Y. and J. A. E. Månson (1997). "Work of fragmentation of a thin oxide coating on a polymer film." *Journal of Materials Science Letters* 16(2): 120-121.
45. Phillips, R., T. Glauser and J.-A. E. Månson (1997). "Thermal stability of PEEK/carbon fiber in air and its influence on consolidation." *Polymer Composites* 18(4): 500-508.
46. Phillips, R. and J.-A. E. Månson (1997). "Prediction and analysis of nonisothermal crystallization of polymers." *Journal of Polymer Science Part B: Polymer Physics* 35: 875-888.

1998

47. Bidaux, J. E., G. D. Smith, J.-A. E. Månson, J. G. Plummer and J. Hilborn (1998). "Fusion bonding of maleic anhydride grafted polypropylene-polyamide 6 blends to polyamide 6." *Polymer* 39(24): 5939-5948.
48. Bourban, P. E., A. Bögli, F. Bonjour and J.-A. E. Månson (1998). "Integrated processing of thermoplastic composites." *Composites Science Technology* 58: 633-637.
49. Eriksson, P.-A., A.-C. Albertsson, P. Boydell, K. Eriksson and J.-A. E. Månson (1998). "Durability of automotive radiator end-caps: effects of service and recycle." *Polymer Engineering and Science*
50. Eriksson, P.-A., A.-C. Albertsson, P. Boydell and J.-A. E. Månson (1998). "Durability of in-plant recycled glass fiber reinforced polyamide 66." *Polymer Engineering and Science* 38(2): 348-356.
51. Eriksson, P.-A., A.-C. Albertsson, P. Boydell and J.-A. E. Månson (1998). "Influence of impurities on mechanical properties of recycled glass fiber reinforced polyamide 66." *Polymer Engineering and Science* 38(5): 749-756.
52. Eriksson, P.-A., A.-C. Albertsson, K. Eriksson and J.-A. E. Månson (1998). "Thermal oxidative stability of heat-stabilised polyamide 66 by differential scanning calorimetry." *Journal of Thermal Analysis* 53: 19-26.
53. Han, H. Z. Y., S. S. Lee, J.-A. E. Månson and J. G. Hilborn (1998). "Surface effect on phase separation in a polyester urethane acrylate ter-polymer." *Polymer Preprints* 39(2): 1175.
54. Harding, P. H., S. A. Page, J.-A. E. Månson and J. C. Berg (1998). "Measurement of residual stress effects by means of single-particle composite tests." *Journal of Adhesion Science Technology* 12(5): 497-506.

55. Phillips, R., D. A. Akyüz and J.-A. E. Månson (1998). "Prediction of the consolidation of woven fibre-reinforced thermoplastic composites. Part I. Isothermal case." *Composites Part A: Applied Science and Manufacturing* 29A: 395-402.

1999

56. Bernet, N., V. Michaud, P.-E. Bourban and J.-A. E. Månson (1999). "An impregnation model for the consolidation of thermoplastic composites made from commingled yarns." *Journal of Composites Materials* 33(8): 751-772.
57. Boogh, L., B. Pettersson and J.-A. E. Månson (1999). "Dendritic hyperbranched polymers as tougheners for epoxy resins." *Polymer* 40(9): 2249-2261.
58. Handge, U. A., Y. Leterrier, J. A. E. Månson, I. M. Sokolov and A. Blumen (1999). "An analysis of disorder in thin silicon oxide coatings." *Europhysics Letters* 48(3): 280-285.
59. Jannerfeldt, G., L. Boogh and J.-A. E. Månson (1999). "Influence of hyperbranched polymers on the interfacial tension of polypropylene/polyamide 6 blends." *Journal of Polymer Science Part B: Polymer Physics* 37(16): 2069-2077.
60. Lee, S. S., H. Z. Y. Han, J. G. Hilborn and J.-A. E. Månson (1999). "Surface structure build-up in thermosetting powder coatings during curing." *Progress in Organic Coatings* 36: 79-88.
61. Leterrier, Y., P. Sutter and J. A. E. Månson (1999). "Thermodynamic and micromechanical approaches to the adhesion between polyethylene terephthalate and silicon oxide." *Journal of Adhesion* 69(1-2): 13-30.
62. Leterrier, Y., Y. Wyser and J. A. E. Månson (1999). "Durability in the life cycle of polymer composites." *Journal of Applied Polymer Science* 73(8): 1427-1434.
63. Luciani, A., Y. Leterrier and J. A. E. Månson (1999). "Rheological behaviour of dilute suspensions of platelet particles." *Rheologica Acta* 38(5): 437-442.
64. Meller, M., A. Luciani and J.-A. E. Månson (1999). "Mixing homologous high viscosity ratio polymer blends in converging flow." *International Polymer Process* 14(3): 221-227.
65. Mendels, D. A., Y. Leterrier and J. A. E. Månson (1999). "Stress transfer model for single fibre and platelet composites." *Journal of Composite Materials* 33(16): 1525-1543.
66. Servais, C., A. Luciani and J.-A. E. Månson (1999). "Fiber-fiber interaction in concentrated suspensions : Dispersed fiber bundles." *Journal of Rheology* 43(4): 1005-1018.
67. Servais, C. and J.-A. E. Månson (1999). "Fiber-fiber interaction in concentrated suspensions : Disperse fibers." *Journal of Rheology* 43(4): 991-1004.
68. Servais, C. and J.-A. E. Månson (1999). "The relationship between steady state and oscillatory shear viscosity in planar randomly oriented concentrated fiber suspensions." *Journal of Rheology* 43(4): 1019-1031.
69. Sunderland, P., A. Sollander, J.-A. E. Månson and L. A. Carlsson (1999). "Measurement of process-induced residual stresses in linerboard." *Journal of Pulp Paper Science* 25(4): 130-136.

2000

70. Bernet, N., P.-E. Bourban and J.-A. E. Månson (2000). "On the characterization of wetting and adhesion in glass fiber-PA12 composites." *Journal of Thermoplastic Composite Materials* 13(november): 434-450.
71. Eom, Y. S., L. Boogh, V. Michaud, P. Sunderland and J.-A. E. Månson (2000). "Time-cure-temperature superposition for the prediction of instantaneous viscoelastic properties during cure." *Polymer Engineering and Science* 40(6): 1281-1292.
72. Han, H. Z. Y., S. S. Lee, J.-A. E. Månson and J. G. Hilborn (2000). "Method to determine chemical composition distribution on matte coating surfaces using raman microscopy." *Applied Spectroscopy* 54(6): 783-794.
73. Handge, U. A., Y. Leterrier, G. Rochat, I. M. Sokolov and A. Blumen (2000). "Two scaling domains in multiple cracking phenomena." *Physical Review E* 62(6): 7807-7810.
74. Jannerfeldt, G., L. Boogh and J.-A. E. Månson (2000). "Tailored interfacial properties for immiscible polymers by hyperbranched polymers." *Polymer* 41(21): 7627-7634.
75. Japon, S., L. Boogh, Y. Leterrier and J. A. E. Månson (2000). "Reactive processing of poly(ethylene terephthalate) modified with multifunctional epoxy-based additives." *Polymer* 41(15): 5809-5818.

76. Japon, S., Y. Leterrier and J. A. E. Månson (2000). "Recycling of poly(ethylene terephthalate) into closed-cell foams." *Polymer Engineering and Science* 40(8): 1942-1952.
 77. Lee, S. S., A. Luciani and J.-A. E. Månson (2000). "A rheological characterisation technique for fast UV-curable systems." *Progress in Organic Coatings* 38: 193-197.
 78. Luciani, A., C. J. G. Plummer, R. Gensler and J.-A. E. Månson (2000). "Surface pattern formation in UV-curable coatings." *Journal of Coating Technology, short communications* 72(909): 161-163.
 79. Mezzenga, R., L. Boogh and J.-A. E. Månson (2000). "A thermodynamic model for thermoset polymer blends with reactive modifiers." *Journal of Polymer Science Part B : Polymer Physics* 38: 1893-1902.
 80. Mezzenga, R., L. Boogh and J.-A. E. Månson (2000). "Evaluation of solubility parameters during polymerisation of amine-cured epoxy resins." *Journal of Polymer Science Part B: Polymer Physics* 38(14): 1883-1892.
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205. Bouchet, J., G. Rochat, B. Singh, Y. Leterrier, J.-A. E. Månson and P. Fayet (2005). Influence of the amino-organosilane/SiO_x interphase on the barrier and mechanical performance of nanocomposites. Fifth international symposium on silanes and other coupling agents, Toronto, June 22-24.
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210. Jansson, N., M. D. Wakeman and J.-A. E. Månson (2005). Optimisation of Properties and Dimensional Stability of Composites by Controlled Fibre Placement. First Invited COST 526 Conference APOMAT for Automatic Process Optimization in Materials Technology, Morschach, Switzerland, 30-31 May.
211. Jin, Y.-H., L. E. Schmidt, Y. Leterrier, Y.-H. Cho and J.-A. E. Månson (2005). Fabrication Process of Low-stress UV-curable Hyperbranched Polymers for Microfluidic Applications. NanoTech 2005, The 9th annual european conference on micro & nanoscale technologies for the biosciences Montreux, Switzerland, November 15-17.
212. Montagne, M., X. Bulliard, V. Michaud and J.-A. E. Månson (2005). An Explanation of the Low Profile Mechanism in Unsaturated Polyester resins. COMPOSITES 2005 Convention and Trade Show, Columbus, Ohio, September 28-30.
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214. Pax, G., J. Bouchet, V. Michaud and J.-A. Månson (2005). Tailoring Of The Practical Adhesion Between Galvanized Steel And Polyethylene. ICCM 15 - 15th International Conference on Composite Materials, Durban, South Africa, 27 June - 1 July.
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216. Schmidt, L. E., Y. Leterrier, D. Schmaeh, J.-A. E. Månson and D. James (2005). Structural and residual stress analysis of UV curable hyperbranched acrylates. RadTech 2005, Barcelona, Spain, 18 - 20 October.
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222. Dumont, P., G. Tornare, S. Arostegui, T. Jauzein, Y. Leterrier and J. A. E. Månson (2006). Intrinsic, thermal and hygroscopic stresses in diffusion barrier films on polymer substrates for flexible displays. EMRS 2006 Spring meeting, SYMPOSIUM I : Thin Films for Large Area Electronics Nice, France, Mai 29 - June 2.
223. Dumont, P., J.-P. Vassal, L. Orgéas, V. Michaud, D. Favier, S. L. Corre and J.-A. E. Månson (2006). Rheology of a thin transparent and concentrated suspension of fiber bundles. AERC 2006, 3rd Annual European Rheology Conference, Hersonisos - Crete, April 27 - 29.
224. Ecabert, B., M. D. Wakeman, I. Blanc, O. Jolliet, S. J. Lee and J.-A. E. Månson (2006). Coupled cost and life cycle modelling of composite car bodies for the Korean Tilting Train Express Project. SAMPE 06 Europe, Paris, France, March 28-30, 2006.
225. Fischer, C., P.-E. Bourban, V. Michaud, C. J. G. Plummer and J.-A. E. Månson (2006). Pre- and Post-Transition Behavior of Shear Thickening Fluids and their Integration into Sandwich Structures. AERC 2006 3rd Annual European Rheology Conference Hersonisos, Crete, Greece, April 27-29, 2006.
226. Fischer, C., P.-E. Bourban, V. Michaud, C. J. G. Plummer and J.-A. E. Månson (2006). Functional composite materials for improved feel and control. 11th annual Congress of the European College of Sport Science (ECSS), 5 - 8 July, Lausanne, Switzerland.
227. Fischer, C., M. Fauve, E. Combaz, P.-E. Bourban, V. Michaud, C. J. G. Plummer, H. Rhyner and J.-A. E. Månson (2006). Dynamic Properties of Materials for Alpine Skis. ISEA 2006, 6th Conference of the International Sports Engineering Association, 11-14 July, Munich, Germany, Springer, New York.
228. J.Ramier, C. J. G. Plummer, Y.Leterrier, J. A. Månson, B. Eckert and R. Gaudiana (2006). Mechanical integrity of dye-sensitized photovoltaic fibres. E-MRS - IUMRS - ICEM 06, Nice, France, May 29 - June 2, 2006.
229. Jespersen, S., M. D. Wakeman, D. Cramer, V. Michaud and J.-A. E. Månson (2006). Film stacking impregnation model for thermoplastic composites applied to a novel netshape preforming process. 8th International Conference on Flow Processes in Composite Materials (FPCM8), Ecole des Mines de Douai, Douai, France, 11-13 July 2006.
230. Michaud, V., S. S. Tavares, A.Sigg, S.Lavanchy and J.-A. E. Månson (2006). Low Pressure Processing Of High Fiber Content Composites. FPCM8, Douai, France, July 11-13, 2006.
231. Rakusa, F., S. Lavanchy, R. d. Oliveira, D. Constantini, V. Michaud and J.-A. E. Månson (2006). Influence of the mould thermal expansion on composite stress build-up during curing. 12th European Conference on Composite Materials, ECCM 12, Biarritz, France, August 29 - September 1, 2006.
232. Rion, J., Y. Leterrier and J.-A. E. Månson (2006). Ultralight composite sandwich structure: optimization of skin to honeycomb core bonding. SAMPE 06 Europe, Paris, France, March 28-30, 2006.
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 238. Dumont, P., W. Balemans, A. Aniskevisch, Y. Leterrier, J.-A. E. Månson, P.-H. Timmermans and J. Andersons (2007). Thermo-hygro-mechanical behaviour of ultrathin multilayer composite materials for flexible display applications. 18e Congrès Français de Mécanique, CFM'07, 27 - 31 August, Grenoble, France.
 239. Dumont, P., Y. Leterrier, W. Balemans, A. Aniskevich, P. Timmermans, J. Andersons and J.-A. E. Månson (2007). Residual stresses in diffusion barrier films on polymer substrates for flexible displays. Society of Vacuum Coaters (SVC) 50th Anniversary Technical Conference, 28 April - 3 May, Louisville, KY, USA.
 240. Fischer, C., A. Bennani, P.-E. Bourban, V. Michaud, C. J. G. Plummer, E. Jacquelin and J.-A. E. Månson (2007). Shear thickening fluids as a tunable damping element: experimental results and modelling. PIE – Smart Structures and Materials & Non-destructive Evaluation and Health-Monitoring, March 18, San Diego, California, USA.
 241. Houphouët-Boigny, C., C. J. G. Plummer, M. n. D. Wakeman, V. Michaud and J.-A. E. Månson (2007). Glass Fiber Reinforced Polypropylene
 242. Nanocomposites. ICCM 16, 16th Interanational Conference on Composite Materials, 8 -13 July Kyoto, Japan.
 243. Kirkby, E. L., J. D. Rule, V. Michaud, N. R. Sottos, S. R. White and J.-A. E. Månson (2007). Active repair of self-healing polymers with shape memory alloy wires. SPIE Smart Structures and Materials Symposium 2007, 18-22 March, San Diego, CA, USA.
 244. Mathieu, L., P.-E. Bourban, M.-O. Montjovent, D. P. Pioletti, U. Seidenglanz, S. Zeiter, S. Pierce and J.-A. E. Månson (2007). A composite biofoam, from research to in vivo validation. Biofoams 2007, Capri, Italy.
 245. Mewani, S. V., A. Pinyol, Y. Leterrier and J.-A. E. Månson (2007). Interface interactions in hybrid organosilane-nitride films on polymer substrates. IVC-17/ICSS-13/ICN+T2007 Conference, 2-6 July, Stockholm, Sweden.
 246. Michaud, V., M. Nordlund, T. S. Lundström and J.-A. E. Månson (2007). Capillary phenomena in liquid composite moulding. ICCM 16, 16th Interanational Conference on Composite Materials, 8 -13 July Kyoto, Japan.
 247. Michaud, V., J. O'Keane, E. Kirkby, R. de Oliveira and J.-A. E. Månson (2007). Potentiality of optical fibre bragg grating sensors for resin transfer moulding process monitoring. ECCM13.
 248. Opris, D., M. Molberg, C. Löwe, F. Nüesch, Y. Leterrier, C. J. G. Plummer and J.-A. E. Månson (2007). Towards High-k Silicone Composite Material for Low-Voltage
 249. Dielectric Elastomer Actuators. SCS Fall Meeting, 12 September, Lausanne, Switzerland.
 250. Pinyol, A., B. Meylan, D. Gilliéron, A. Mottet, V. Mewani, Y. Leterrier and J.-A. E. Månson (2007). Electro-Fragmentation Analysis of Dielectric Thin Films on Flexible Polymer Substrates. MRS Fall Meeting, 26 - 30 November, 2007, Boston, MA, U.S.A.
 251. Pinyol, A., B. Meylan, V. Mewani, Y. Leterrier and J.-A. E. Månson (2007). Electro-fragmentation of dielectric thin films on flexible polymer substrates. ICOE 07, International Conference on Organic Electronics, 4-7 June, Eindhoven, The Netherlands.
 252. Pyniol, A., D. Gilliéron, V. Mewani, Y. Leterrier and J.-A. E. Månson (2007). Electro-fatigue analysis of dielectric thin films on flexible polymer substrates. MRS Fall Meeting, 26 - 30 November, Boston, MA.
 253. Rion, J., Y. Leterrier, F. Demarco and J.-A. E. Månson (2007). Damage analysis of ultralight composite sandwich structure. ICCM 16, 16th Interanational Conference on Composite Materials, 8 -13 July Kyoto, Japan.
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343. Leterrier Y., González Lazo M., Månson J.-A.E., Hyperbranched Polymer-Silica Hybrid Nanocomposites for High Replication Fidelity of Light-Trapping Nanostructures for Solar Cells, 4th International Conf. Multifunctional, Hybrid and Nanomaterials, Sitges, March 9-13 (2015).
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- 352. J.D. Miller, J.S. Dustin, J.-A.E. Mansson, P. Blanchard, and J. Dahl. Lightweighting Capability and Design Guidelines for Continuous Fiber Tow Reinforced Hybrid-Molded Composite Structures. CAMX. Anaheim, CA. 23-26 September 2019
- 353. Glebes, R.G., Dustin, J.S., and Mansson, J.A.E., Technical cost modeling Methodology for novel manufacturing, SAMPE 19, Charlotte, North Carolina, USA, 20-23 May 2020.
- 354. Heflin, D.G., Månson, J.-A.E. (2020), Impact behavior of epoxy-polyamide hybrid composites, SAMPE Europe, Amsterdam, Netherlands, 30 September-01 October 2020
- 355. J. Lavorata, J.-A. E Månson, Controlling the geometry of high-rate thermoplastic composites via over-braiding, SAMPE 2021, Long Beach, California, USA, 24-27 May 2021. (Submitted)

DOCTORAL THESES DIRECTED

PROF. JAN-ANDERS E. MANSSON

#	Titre	Author	Year	No. EPFL
1	Consolidation mechanisms and interfacial phenomena in thermoplastic powder impregnated composites	M. Connor	1995	1413
2	Curing of thermoset films: build-up of structure and residual stresses	J. Lange	1995	9510
3	The dimensional stability of fiber-reinforced thermoplastic composites	P. Kim	1995	1427
4	Rheology of glass-mat reinforced thermoplastics	K.A. Ericsson	1996	1472
5	Consolidation and solidification behavior of thermoplastic composites	R. Phillips	1996	1474
6	Fusion bonding of neat and reinforced semi-crystalline thermoplastics	G. Smith	1996	1597
7	Measurement and prediction techniques for internal stresses in polymers and composites	P. Sunderland	1997	1683
8	Life cycle influences on the durability of multilayer polymer composites	Y. Wyser	1997	1750
9	Mechanical recycling of glass fibre reinforced polyamide 6.6	P-A. Eriksson	1997	9612
10	Modification moléculaire du poly(éthylène terephthalate) par mise en œuvre réactive pour le contrôle dynamique du moulage	S. Japon	1999	2037
11	Mechanisms of internal stress evolution and defect formation in thermosets during processing	Y.-S. Eom	1999	2081
12	Flow modelling of concentrated long fibre suspensions	C. Servais	2000	2108
13	Novel thermoplastic sandwich preforms for three-dimensional forming.	O. Rozant	1999	2109
14	Tailored rheological and mechanical properties of fibre mat reinforced thermoplastics	R. Törnqvist	2000	2120
15	Dendritic hyperbranched polymers as reactive additives in thermoplastic materials	G. Jannerfeldt	2000	2124
16	Commingled yarn composites for the rapid processing of complex shapes	N. Bernet	2000	2154
17	Surface energetics and internal stress contributions to the adhesive properties of thermoset-based systems	S. Page	2000	2236
18	Dispersive mixing of high viscosity ratio polymer blends	M. Meller	2000	2267
19	Soudage par fusion des polymères thermoplastiques semi-cristallins	J.-E. Zanetto	2000	2317
20	Coupling of physical aging and internal stresses in thermoset-based multimaterial systems	D. Mendels	2001	2358
21	Hyperbranched polymers as modifiers for thermoset resins	R. Mezzenga	2001	2428

22	In-situ polymerisation of lactam 12 for liquid moulding of thermoplastic composites	A. Luisier	2001	2453
23	Novel pulp fibre reinforced thermoplastic composites	L. Lundquist	2002	2553
24	Industrial implementation of new composite material technologies	N. Weibel	2002	2567
25	Multicomponent flow in a conical extruder	A. Sarioglu	2003	2698
26	Void formation and transport during liquid moulding and forming of reactive thermoplastic composites	L. Zingraff	2003	2906
27	Gradient interphases for toughened nanosized gas-barrier coatings on polymers	G. Rochat	2003	2912
28	Adaptative composites with embedded shape memory alloy wires	J. A. Balta	2003	2781
29	Resin transfer moulding of complex shaped composites using carbon-fibre non-crimp fabrics	J. Verrey	2004	3003
30	Consolidation and deconsolidation in composite processing	J. Wolfrath	2004	3040
31	Low-profile mechanisms in composites with thermoplastic/polyester blend matrices	X. Buillard	2004	3077
32	Processing of porous polymer composites for bone tissue engineering	L. Mathieu	2004	3121
33	Highly branched polymer/montmorillonite clay nanocomposites	M. Rodlert	2004	3153
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62	Performance Informed Technical Cost Modeling for Novel Manufacturing	R.G. Glebes	2019	
63	Process modeling of kidney-bean shaped carbon fibers and manufacturing of multi-phase thermoplastic prepregs	A. Reichanadter	2020 expected	
64	Manufacturing design of hybrid polymer-matrix composites	D. Heflin	2020 expected	
65	Design for hybrid composite structures with local unidirectional tow based preform reinforcements	J. Miller	2020 expected	
66	Multi-material Selective Laser Sintering	T. Dowd	2022 expected	
67	An investigation of a novel high-rate manufacturing line for multifunctional thermoplastic composites	J. Lavorata	2022 expected	

Masters Thesis

Tsai, Jung-Ting, Integrated Structural Monitoring of Composite Materials via Distributed Optical Sensor (2018)

