



DR TIFFANY ANNETTE WOOD

CURRICULUM VITAE

Work address: James Clerk Maxwell Building, Edinburgh, EH54 9BA

EMPLOYMENT

2015 – present: Director of the Edinburgh Complex Fluids Partnership: I lead business activities for the Edinburgh Complex Fluids Partnership at the University of Edinburgh working with around 40 researchers who study soft materials physics to drive innovation and solve industry challenges. I have supervised around 10 members of staff on research collaborations, consultancy and business development projects.

2015 – 2019: Royal Society Industry Fellow: Formulations for the future: understanding traditional and innovative composites in collaboration with The Mentholatum Company Limited.

PREVIOUS EMPLOYMENT

2013 – 2016: Honorary Lecturer of the University of Aberdeen

2012-2015: Industrial Research Liaison and Operations Director of the Edinburgh Complex Fluids Partnership. I co-founded the Edinburgh Complex Fluids Partnership and grew our activities such that we engaged with 25 companies over four years, transferring knowledge from our academic base to deliver impact for businesses. This involved initiating and develop collaborations between academic researchers and company scientists, planning and managing projects and winning funding from private and public sources to solve industry challenges relating to soft material physics.

2007 – 2012: Postdoctoral Research Fellow, Soft Matter Physics Group, University of Edinburgh.

2004 – 2007: Postdoctoral Research Associate, School of Chemistry, University of Bristol.

1999 – 2000: Various posts including Business Manager Assistant at NatWest Offshore, Assistant Accountant at National Tyre and Physics Teacher in Zambia.

EDUCATION

2005: PhD in Physics, University of Manchester (funded through a Jersey Education scholarship)

1999: MPhys in Physics (2:1), University of Manchester.

MEMBERSHIP

2014 – present: Member of the Royal Society of Chemistry

2013 – present: Elected member of the Young Academy of Scotland of the Royal Society of Edinburgh

2012 – present: Member of the SCI – ‘where science meets business’

COMMITTEES AND RESPONSIBILITIES

2016 -2017: Steering committee for the International Conference on Natural Product Biotechnology in 2017.

2015 – present: Chair of the SCI Scotland Group

2015 – present: Founding member of the SCI Formulation Forum

2014: Contributed to a response from the Royal Society of Edinburgh to BIZ on ‘What should the scale and scope of the UK Science and Innovation system by 2020 be?’

2014: Invited member of RSC committee ‘Open Science, open data and formulation’.

2013 – present: Co-founder and co-chair of the Industry Working Group of the Young Academy of Scotland

2013 – present: Member of the SCI Membership Affairs Committee

2011 – 2014: Member of KTN Formulation Special Interest Group

2010 : Helped to develop an online repository to share soft matter data internationally

2009 - 2010: Member of School of Physics Athena SWAN committee

RECENT TEACHING, SUPERVISION AND EXAMINATION

2016 – present: Supervise Navneeta Katyan, a SCI funded PhD student, University of Edinburgh

2015: Examined James Hallett, PhD viva, University of Bristol

2014: Assisted with the ‘Consultancy in Physics’ workshop for Innovative Learning Week

2014 – present: Lectures on Liquid Crystal Physics, SOFI CDT, University of Edinburgh

2007 – present: supervised 6 MPhys and BSc final year student projects

IN THE MEDIA

19th November 2014: Interviewed for STV news at the ECFP workshop on formulation at the Natural Product Biotechnology conference.

21st October 2013: Featured in *Cosminnov gives an update of the state of the art* in Premium Beauty News

25th November 2013, *Dog treat takes the biscuit*, Daily Express.

20th January 2013, *Deep study into pain relief treatment*, Scotland on Sunday.

OUTREACH

November 2014: Organised a workshop on formulation science at the Natural Product Biotechnology conference in Inverness. This enabled SMEs to understand what to consider when formulating with natural ingredients.

September 2014: Helped demonstrate emulsions and capsule-making to secondary school children at Eat, Drink, Discover Scotland.

2013: Organised the ‘ECFP gallery’- a display cabinet, posters and shelf for demonstrations to help visitors understand what soft matter science is all about.

PUBLICATIONS

- Murray, J. W., Sun, J., Patil, D., Wood, T. and Clare, A. T., *Physical and electrical characteristics of EDM debris*, **Journal of Materials Processing Technology**, 229, 54-60, 2016.
- T. Wood, P. Taylor and K. Dorrian, *Innovating ways to watch paint dry*, **PPCJ Polymers Paint Colour Journal** 205, 4604, p.46-47, 2015.
- Davidson, J. M., Sefiane, K. and Wood, T. *Fast Diffusion Reaction in the Composition and Morphology of Coprecipitated Carbonates and Nitrates of Copper(II), Magnesium(II), and Zinc(II)* **Industrial and Engineering Chemistry Research**, 54, 5, 1555-1563, 2015.
- Pawsey A. C., Lintuvuori J. S., Wood T. A., Thijssen J. H. J., Marenduzzo D. and Clegg P. S., "Colloidal particles at the interface between an isotropic liquid and a chiral liquid crystal" **Soft Matter**, 8, 8422-8428, 2012.
- Wood T.A., Lintuvuori J. S., Schofield A. B., Marenduzzo D., Poon W. C. K. , "A Self-Quenched Defect Glass in a Colloid-Nematic Liquid Crystal Composite", **Science**, 334, 79, 2011.
- Hijnen N., Wood T. A., Wilson D. and Clegg P. S., "Self Organisation of Particles with Planar Anchoring in a Cholesteric Liquid Crystal", **Langmuir**, 26 (16), 13502, 2010.
- Wood T. A., Roberts G. S., Eaimkhong S. and Bartlett P., "Characterisation of microparticles with driven optical tweezers", **Faraday Discussions**, 137, 319, 2008.
- Roberts G. S., Sanchez R., Kemp R., Wood T.A. and Bartlett P., "Electrostatic charging of non polar colloids by reverse micelles", **Langmuir**, 24 (13), 6530, 2008.
- Roberts G. S., Wood T. A., Frith W. J., and Bartlett P., "Direct measurement of the effective charge in nonpolar suspensions by optical tracking of single particles", **Journal of Chemical Physics**, 126, 194503, 2007.
- Greinert N., Wood T.A. and Bartlett P., "Nonequilibrium temperatures in an aging colloidal glass", **Physical Review Letters**, 97, 265702, 2006.
- Gleeson H. F., Wood T.A., Dickinson M. R., "Laser Manipulation in Liquid Crystals: an approach to microfluidics and micromachines", **Philosophical Transactions of the Royal Society A: New directions in liquid crystal science**, August 2006.
- Wood T. A., Gleeson H. F., Dickinson M. R. and Wright A. J., "Mechanisms of optical angular momentum transfer to nematic liquid crystalline droplets", **Applied Physics Letters**, 84 (21): 4292-4294, 2004.
- Wright A. J., Wood T. A., Dickinson M. R., Gleeson H. F. and Mullin T., "The transverse trapping force of an optical trap: factors affecting its measurement", **Journal of Modern Optics**, 50 (10): 1521-1532, 2003.
- Wood T. A., Wright A. J., Gleeson H. F., Dickinson M. R., Mullin T. and Murray A., "Investigation of the Factors Affecting the Transverse Force Measurements of an Optical Trap. Part I", **Proceedings of the SPIE**, 4634: 128-134, 2002.
- Wright A. J., Wood T. A., Gleeson H. F., Dickinson M. R., Mullin T. and Murray A., "Investigation of the Factors Affecting the Transverse Force Measurements of an Optical Trap. Part II", **Proceedings of the SPIE**, 4622: 195-203, 2002.