

LIST OF PUBLICATIONS

Books

Weaire D and Hutzler S, “The Physics of Foams”, *Oxford University Press* [First Published 1999, published as paperback 2001, translated into Japanese, 2004, Publisher: Uchidarokakuho, Tokyo]

Richmond P, Mimkes J and Hutzler S “Econophysics and Physical Economics”, *Oxford University Press* (2013)

Edited proceedings

Hutzler S (ed.), “Special Issue: International Workshop on Packing Problems”, *Philosophical Magazine* **93** 3939 – 4173 (2013).

Other publications

145. S Hutzler, JCF Ryan-Purcell and D Weaire, A simple formula for the estimation of surface tension from two length measurements for a sessile or pendant drop, *Philosophical Magazine Letters* (submitted, 2017).
144. S Hutzler and W Drenckhan, Structure of liquid foams (2017, book chapter, ed. R. Miller, submitted).
143. J Winkelmann, FF Dunne, VJ Langlois, ME Möebius, D Weaire, S Hutzler, 2D foams above the jamming transition: Deformation matters *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (submitted, 2017).
142. VJ Langlois and S Hutzler, Dynamics of a flexible fibre in a sheared two-dimensional foam: numerical simulations *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (in press, 2017).

141. D Whyte, B Haffner, A Tanaka, T Hjelt, and S Hutzler, Interactions of fibres with simple arrangements of soap films *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (in press, 2017).
140. D Whyte, N Didkovsky, S. Hutzler, *Zero Waste*: mapping the evolution of the iterative sight-reading of a piano score, *Music Theory Spectrum* (accepted, 2017)
139. D Weaire, R Höhler and S Hutzler, Bubble-bubble interactions in a 2D foam, close to the wet limit, *Advances in Colloid and Interface Science* **247** 491-495 (2017).
138. J Winkelmann, B Haffner, D Weaire, A Mughal and S Hutzler, Simulation and observation of line-slip structures in columnar structures of soft spheres, *Physical Review E* **96** 012610 (6 pages) (2017).
137. FF Dunne, F. Bolton, D Weaire and S Hutzler, Statistics and topological changes in 2d foam from the dry to the wet limit, *Philosophical Magazine* **97** 1768-1781 (2017).
Corrigendum: <http://dx.doi.org/10.1080/14786435.2017.1367174>.
136. Haffner, FF Dunne, S Burke and S Hutzler, Ageing of fibre-laden aqueous foams, *Cellulose* **24** 231-239 (2017).
135. E Forel, E Rio, S Beguin, D Weaire, S Hutzler and W Drenckhan, The surface tells it all: Relationship between volume and surface fractions, *Soft Matter* **12** 8025-8029 (2016).
134. S Hutzler, C Sommer and P Richmond, On the relationship between income, fertility rates and the state of democracy in society, *Physica A* **452** 9–18 (2016).
133. R Murtagh, D Whyte, D Weaire and S Hutzler, Adaptation of the Z-cone model to the estimation of the energy of a bcc foam, *Philosophical*

- Magazine* **95** 4023–4034 (2015).
132. W. Drenckhan and S. Hutzler, Structure and energy of liquid foams, *Advances in Colloid and Interface Science* **224** 1-16 (2015)
131. D Whyte, D Weaire, W Drenckhan and S Hutzler, The relative energy of fcc and hcp foams, *Philosophical Magazine Letters*, **95** 319–323 (2015).
130. D. Weaire and S. Hutzler, “Foams” in Princeton Companion to Applied Mathematics, by N. Higham (editor), Princeton University Press, 737–740 (2015).
129. AJ Meagher, D Whyte, J. Banhart, S. Hutzler and F García-Moreno, Slow crystallisation of a monodisperse foam stabilised against coarsening, *Soft Matter* **11** 4710 – 4716 (2015).
128. D Whyte, R Murtagh, D Weaire and S Hutzler, Applications and extensions of the Z-cone model for the energy of a foam *Colloids and Surfaces : Physicochem. Eng. Aspects* **473** 115-122 (2015).
127. D. Weaire and S. Hutzler, “Foams”, in *The Oxford Handbook of Soft Condensed Matter*, by E. Terentiev (editor) Oxford University Press, 147 – 166 (2015).
126. AJ Meagher, F García-Moreno, J Banhart, A Mughal and S Hutzler, An experimental study of columnar crystals using monodisperse microbubbles, *Colloids and Surfaces : Physicochem. Eng. Aspects* **473** 55-59 (2015).
125. F. Newell, R. Murtagh and S. Hutzler, “Does the Perceptual Discriminability of Spatial and Dynamic Patterns Shape our Preferences?”, Abstracts of the Psychonomic Society - 55th Annual Meeting **19** 158-9 (2014).

124. F Garcia-Moreno, ST Tobin, M Mukherjee, C Jiménez, E Solórzano, GS Vinod Kumar, S Hutzler and J Banhart, “Analysis of liquid metal foams through X-ray radioscopy and microgravity experiments”, *Soft Matter* **10** 6955-6962 (2014).
123. S. Hutzler , R.P. Murtagh, D. Whyte, S.T. Tobin, D. Weaire, “Z-Cone model for the energy of an ordered foam”, *Soft Matter* **10** 7103-7108 (2014).
122. Bergin SD, Weaire D and Hutzler S, “The Drop heard round the World”, *Physics World*, May 2014, 26-29 (2014).
121. P Richmond, MB Sexton, SJ Hardiman and S. Hutzler (2014), “Generalised Diffusion Model of Asset Price Fluctuations”, *The European Physical Journal B* **87** 63 (5 pages).
120. S.T. Tobin, D. Weaire and S. Hutzler “Theoretical analysis of the performance of a foam fractionation column” *Proceedings of the Royal Society A* **470** 20130625 (18 pages) (2014).
119. MB Sexton, SJ Hardiman, ME Möbius and S Hutzler, “Sheared disk packings as a model system for complex dynamics”, *Physica A* **394** 312-319 (2014).
118. S. Hutzler (2013), ‘Foams – Think bubbles’, *Chemistry&Industry*, December 2013, 49.
117. F Newell, R Murtagh, S Hutzler (2013), “A role for Gestalt principles of organisation in shaping preferences for non-natural spatial and dynamic patterns”, *Perception* **42** European Conference on Visual Perception ECVF Abstract Supplement, 113.
116. S. Hutzler (2013), “Preface (for Proceedings of International Workshop on Packing Problems)”. *Philosophical Magazine* **93** 3939.

115. A.J. Meagher, S. Hutzler and D. Weaire (2013), “Building the pyramids: perfect bubble crystals”, *Philosophical Magazine* **93** 4138-4150.
114. S. Hutzler (2013) “Fractal Ireland” *SCIENCE SPIN issue 58: May/June* 19-20.
113. S. Hutzler, S. T. Tobin, A. J. Meagher, A. Marguerite and D. Weaire, “A model system for foam fractionation” *Proceedings of the Royal Society A* **469** 20120727 (15 pages) (2013).
112. A. Mughal, H. K. Chan, D. Weaire, S. Hutzler, “Dense packings of spheres in cylinders I. Simulations”, *Phys. Rev. E* **85** 051305 (17 pages)(2012).
111. M. Saadatfar, M. Mukherjee, M. Madadi, G.E. Schröder-Turk, F. Garcia-Moreno. F.M. Schaller, S. Hutzler, A.P. Sheppard, J. Banhart and U. Ramamurty, “Structural and finite element analysis of tomographic data for closed cell aluminum foam subject to uniaxial compression“, *Acta Materialia* **60** 3604-3615 (2012).
110. D. Weaire, S.T. Tobin, A.J. Meagher and S. Hutzler, “Foam Morphology”, in *Foam Engineering: Fundamentals and Applications* by P. Stevenson (editor), Wiley, 7-26 (2012).
109. R. Gabbrielli, A.J. Meagher, D. Weaire, K.A. Brakke and S. Hutzler, “An experimental realisation of the Weaire-Phelan structure in monodisperse liquid foam”, *Philosophical Magazine Letters* **92** 1-6 (2012).
108. N Vandewalle, H Caps, G Delon, A Saint-Jalmes, E Rio, L Saulnier, M Adler, A L Biance, O Pitois, S Cohen Addad, R Hohler, D Weaire, S Hutzler, D Langevin, Foam Stability in Microgravity, *Journal of Physics: Conference Series* **327** 012024 (2011)

107. M.B. Sexton, M.E. Möbius and S. Hutzler, Bubble dynamics and rheology in sheared two-dimensional foams, *Soft Matter* **7** 11252- 11258 (2011).
106. A.J. Meagher, M. Mukherjee, D. Weaire, S.Hutzler, J. Banhart and F. Garcia-Moreno, “Analysis of the internal structure of a monodisperse liquid foam by X-ray tomography”, *Soft Matter* **7** 9881-9885 (2011)
105. ST Tobin, A.J. Meagher, B Bulfin, ME Möbius and S Hutzler 2010 “A public study of the lifetime distribution of soap films” *American Journal of Physics* **79** 819-824 (2011).
104. JD Barry, D Weaire and S. Hutzler, “Nonlocal effects in the continuum theory of shear localisation in 2d foams”, *Philosophical Magazine Letters* **91** 432-440 (2011).
103. S Hutzler and D Weaire, “The mechanics of liquid foams: History and new developments”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **382** 3-7 (2011)
102. ST Tobin, JD Barry, AJ Meagher, B Bulfin, CE O’Rathaille and S Hutzler, “Ordered polyhedral foams in tubes with circular, triangular and square cross-section”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **382** 24-31 (2011)
101. Hutzler S, Lösch D, Carey E, Weaire D, Hloucha M and Stubenrauch C 2011 “Evaluation of a steady-state test of foam stability” *Philosophical Magazine* **91** 537 - 552.
100. Hardiman SJ, Tobin ST, Richmond P and Hutzler S 2011 “Distributions of certain market observables in an on-line betting exchange”, *Dynamics of Socio-Economic Systems* **2** 121-137.

99. Hardiman SJ, Richmond P and Hutzler S 2010 “Long-range correlations in an online betting exchange for a football tournament” *New Journal of Physics* **12** 105001 (14 pages).
98. Barry JD, Weaire D and Hutzler S 2010 “Shear localisation with 2D Viscous Froth and its relation to the Continuum Model” *Rheologica Acta* **49** 687-698
97. Weaire D, Barry JD and Hutzler S 2010 “The continuum theory of shear localization in two-dimensional foam” *Journal of Physics: Condensed Matter* **22** 193101 (22pp)
96. Weaire D and Hutzler S 2009 “Foam as a complex system”, *Journal of Physics: Condensed Matter* **21** 474227 (4 pages).
95. Hardiman SJ, P. Richmond and Hutzler S 2009 “Calculating Statistics of Complex Networks through Random Walks with an application to the on-line social network Bebo” *European Physical Journal B* **71** 611-622.
94. Hutzler S, Barry J, Grasland-Mongrain P, Smyth D and Weaire D, ”Ordered packings of bubbles in columns of square cross-section” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **344** 37-41 (2009).
93. Saadatfar M, Garcia-Moreno F, Hutzler S, Sheppard AP, Knackstedt MA, Banhart J and Weaire “Imaging of metallic foams using X-ray micro-CT” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **344** 107-112 (2009)
92. Weaire D, Clancy RJ and Hutzler S 2009 “A simple analytical theory of localisation in 2D foam rheology” *Philosophical Magazine Letters* **89** 294-299.

91. Van der Net A, Weaire D and Hutzler S 2009 “Rearrangement and elimination of ordered surface layers of crystalline bubble structures due to gas diffusion” *Soft Matter* **5** 318-324.
90. Andersson M, Banhart J, Caps H, Durian D, Garcia-Moreno F, Hutzler S, Kronberg B, Langevin D, Pitois O, Saadatfar M, Saint-Jalmes A, Vandewalle N, Vignes-Adler M, Weaire D 2008 ”Foam Research in Microgravity” *Proceedings of the Third International Symposium on Physical Sciences in Space, 22-10-2007 - 26-10-2007 Nara, Japan* Journal of The Japan Society of Microgravity Application **25** 241-244.
89. Coelho R, Richmond P, Hutzler S and Lucey B 2008 “A random matrix theory based analysis of stocks of markets from different countries” *Advances in Complex Systems* **11** 655-668.
88. Saadatfar M, Hutzler S and Weaire D 2008 “Foams” *Trinity College Dublin: interconnect, Scientific Computing and Visualisation Newsletter* 2, September 2008, p 8-9
87. Delaney G W, Hutzler S and Aste T 2008 ”Relation between grain shape and fractal properties in random Apollonian packing with grain rotation” *Physical Review Letters* **101** 120602 (2008)
86. Drenckhan W, Dollet B, Hutzler S, Elias F 2008 “Soap films under large amplitude oscillations” *Philosophical Magazine Letters* **88** 669-677
85. Saadatfar M, Barry J, Weaire D and Hutzler S 2008 “Ordered cylindrical foam structures with internal bubbles” *Philosophical Magazine Letters* **88** 661 - 668
84. Carrier V, Hutzler S and Weaire D 2008 “Observations of a variety of drainage patterns in bamboo foams” *Europhysics Letters* **83** 54005 (5 pages)

83. Weaire D, Hutzler S and Langlois VJ 2008 “Foam rheology in two dimensions”, Proceedings of The XVth International Congress on Rheology, Monterrey 2008, American Institute of Physics, New York, 833-835.
82. Langlois VJ, Hutzler S and Weaire D 2008 “Rheological properties of the soft disk model of 2D foams” *Physical Review E* **78** 021401 (2008) (7 pages).
81. Weaire D, Hutzler S, Langlois VJ and Clancy RJ 2008 “Velocity dependence of shear localisation in a 2D foam” *Philosophical Magazine Letters* **88** 387-396.
80. Banhart J, García-Moreno F, Hutzler S, Langevin D, Liggieri L, Miller R, Saint-Jalmes A and Weaire D 2008 “Foams and emulsions in space” *Europhysics News* **39** 26-28.
79. Barrett D, Daly EJ, Dolan M, Kelly S, Drenckhan W, Weaire D and Hutzler S 2008 “Taking Plateau into micro-gravity: the formation of an eight-fold vertex in a system of soap films” *Microgravity - Science and Technology* **20** 17-22.
78. Coelho R, Richmond P, Barry J and Hutzler S 2008 “Double power laws in income and wealth distributions” *Physica A* **387** 3847-3851
77. Hutzler S, Saadatfar M, van der Net A, Weaire D and Cox SJ 2008 “The dynamics of a topological change in a system of soap films” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **323** 123-131.
76. Weaire D, Langlois V, Saadatfar M and Hutzler S 2007 “Foam as granular matter”, in Granular and Complex Materials, World Scientific Lecture Notes in Complex Systems, volume 8,(eds. Aste T, Di

Matteo T and Tordesillas A), World Scientific Publishing, New Jersey, pages 1-26

75. Carrier V, Hutzler S and Weaire D 2007 “Drainage foams with regularly spaced parallel spaced soap films” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **309** 13-19
74. van der Net A, Delaney GW, Drenckhan W, Weaire D and Hutzler S 2007 “Crystalline arrangements of microbubbles in monodisperse foams” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **309** 117-124
73. Sun Q and Hutzler S 2007 “Light scattering through 2d Plateau borders and foams” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **309** 182-188
72. Hutzler S, Cox SJ, Janiaud E and Weaire D 2007 “Drainage induced convection rolls in foams” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **309** 33-37
71. Janiaud E, Weaire D and Hutzler S 2007 “A simple continuum model for the dynamics of a quasi two-dimensional foam” *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **309** 125-131
70. Aref H, Weaire D and Hutzler S 2007 “Toying with physics” *euro-physics news* **38** (3) 23-26
69. Elias F, Hutzler S and Ferreira M 2007 “Visualisation of sound waves using regularly spaced soap films” *European Journal of Physics* **28** 755-765.
68. Péron N, Cox SJ, Hutzler S and Weaire D 2007 “Steady drainage in emulsions: Corrections for surface Plateau borders and a model

- for high aqueous volume fraction” *European Physical Journal E: Soft Matter* **22** 341 - 351.
67. Hutzler S 2007 “Bubbles” *Physics Review* **16** (4) 16-17.
66. Hutzler S, Weaire D, Cox SJ, van der Net A and Janiaud E 2007 “Pre-empting Plateau: the nature of topological transitions in foam” *Europhysics Letters* **77** 28002 (5 pages)
65. Coelho R, Gilmore C, Lucey B, Richmond P and Hutzler S 2007 “The evolution of interdependence in world equity markets: evidence from minimum spanning trees” *Physica A* **376** 455-466.
64. Coelho R, Hutzler S, Repetowicz P and Richmond P 2007 “Sector analysis for a FTSE portfolio of stocks”, *Physica A* **373**, 615-626.
63. Clancy RJ, Janiaud E, Weaire D and Hutzler S 2006 “The response of 2d foams to continuous applied shear in a Couette rheometer” *European Physical Journal E: Soft Matter* **21** 123-132.
62. Richmond P, Hutzler S, Coelho R and Repetowicz P 2006 “A Review of Empirical Studies and Models of Income Distributions in Society”, in “Econophysics and Sociophysics: Trends and Perspectives” , eds. Chakrabarti BK, Chakraborti A and Chatterjee A, Wiley-VCH Berlin
61. Richmond P, Repetowicz P, Hutzler S and Coelho R 2006 “Comments on recent studies of the dynamics and distribution of money”, *Physica A* **370**, 43-48.
60. Weaire D, Hutzler S, Drenckhan W, Saugey A and Cox SJ 2006 “The rheology of foams” *Progress in Colloid and Polymer Science*, **133** 100-105.

59. Weaire D, Janiaud E and Hutzler S 2006 “Two dimensional foam rheology with viscous drag”, *Physical Review Letters* **97** 038302 (2006)
58. Cox SJ, Alonso MD, Weaire D and Hutzler S 2006 “Drainage induced convection rolls in foams I: Convective bubble motion in a tilted tube” *European Physical Journal E: Soft Matter* **19** 17-22. <http://publish.edpsciences.org/articles/epj>
57. Repetowicz P, Hutzler S, Richmond P and Ni Dunn E 2006 “Agent based approaches to income distributions and the impact of memory”, in *The Logistic Map: Map and the Route to Chaos: From the Beginning to Modern Applications*, eds. Ausloos M and Dirickx M, Springer-Verlag, Berlin, Heidelberg, 259-272.
56. van der Net A, Drenckhan W, Weaire D and Hutzler S 2006 “The Crystal Structure of Bubbles in the Wet Foam Limit”, (Amendment) *Soft Matter* **2**, 523 - 523
55. van der Net A, Drenckhan W, Weaire D and Hutzler S 2006 “The Crystal Structure of Bubbles in the Wet Foam Limit”, *Soft Matter* **2**, 129 - 134 www.rsc.org/ej/SM/2006/b515537a.pdf
54. Delaney G W, Weaire D and Hutzler S 2005 “Onset of rigidity for stretched string networks” *europhysics letters*, **72** 990-996.
53. Hutzler S 2005 “Soap films” *Science Spin* Issue 13, Autumn 05, 18-20, also in “COLOUR, What we see and the science behind sight”, M. Franklin and T. Kennedy (eds.), Spin Discovery Series 1, Albertine Kennedy Publishing, Cloonlara, Co Mayo, Ireland, November 2005.
52. Hutzler S, Weaire D, Saugey A, Cox S and Pèron N 2005 “The physics of foam drainage” *Proceedings of the 52nd SEPAWA Congress including the European Detergent Conference, Würzburg*, ed. K. Henning, ©Vereinigung der Seifen, Parfüm und Waschmittelfachleute e.V., Ludwigshafen/Rh., ISBN 3-9810074-1-7, pp 191-206

51. Richmond P, Repetowicz P and Hutzler S 2005 “Dynamics of money and income distributions II”, in *Econophysics of Wealth Distributions, Econophys-Kolkata I*, A. Chatterjee, S. Yarlagadda and B.K. Chakrabarti (Eds.), Springer-Verlag Italia, 120-125.
50. Repetowicz P, Hutzler S and Richmond P 2005 “Dynamics of money and income distributions” *Physica A* **356**, 641-654. (also <http://arXiv.org/abs/cond-mat/0407770>)
49. Drenckhan W, Hutzler S and Weaire D 2005 “Foam physics: the simplest example of soft condensed matter”, in MODERN TRENDS IN PHYSICS RESEARCH: First International Conference on Modern Trends in Physics Research; MTPR-04, Cairo, Egypt, 4-9 April 2004, ed. L. El Nadi, AIP Conference Proceedings **748**, 22-28. <http://link.aip.org/link/?APCPCS/10>
48. Delaney G, Weaire D, Hutzler S and Murphy S 2005 “Random packing of elliptical disks” *Philosophical Magazine* **85**, 89-96.
47. Hutzler S, Cox S J and Wang G 2005 “Foam drainage in two dimensions”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **263**, 178-183.
46. Rioual F, Hutzler S and Weaire D 2005 “Elastic dilatancy in foams: a simple model”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **263**, 117-120.
45. Elias F, Bacri J-C, Flament C, Janiaud E, Talbot D, Drenckhan W, Hutzler S, and Weaire D 2005 “Magnetic soap films and magnetic soap foams”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **263**, 65-75.
44. Sun Q and Hutzler S 2005 “Studying localised structural changes in 2d liquid foams using a hybrid lattice gas model”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **263**, 27-32.

43. Hutzler S, Delaney G, Weaire D and McLeod F 2004 “Rocking Newton’s Cradle” *American Journal of Physics* **72**, 1508-1516
42. Kern N, Weaire D, Martin A, Hutzler S and Cox SJ 2004 “The two-dimensional viscous froth model for foam dynamics” *Physical Review E* **70**, 041411 (13 pages)
41. Sun Q and Hutzler S 2004 “Lattice gas simulations of two-dimensional liquid foams” *Rheologica Acta* **43** 567-574. DOI: 10.1007/s00397-004-0417-0
40. Hutzler S, Péron N, Weaire D and Drenckhan W 2004 “The foam/emulsion analogy in structure and drainage” *European Physical Journal E: Soft Matter* **14**, 381-386. DOI: 10.1140/epje/i2003-10152-1
39. Coleman J N, Fleming A, Maier S, O’Flaherty S, Minett A, Ferreira M S, Hutzler S and Blau W J 2004 “Binding Kinetics and Spontaneous SWNT Bundle Dissociation in Low Concentration Polymer-Nanotube Solutions” *J. Phys. Chem.* **108**, 3446-3450.
38. Weaire D and Hutzler S 2003 “Dilatancy in liquid foams” *Phil. Mag.* **83**, 2747 - 2760.
37. Drenckhan W, Elias F, Hutzler S, Weaire D, Janiaud E and Bacri J-C 2003 “Bubble size control and measurement in the generation of ferrofluid foams” *Journal of Applied Physics* **93** 10078-10083.
36. Weaire D, Hutzler S, Cox S, Kern N, Alonso MD and Drenckhan W 2003 “The Fluid Dynamics of Foams” *J. Phys.: Condens. Matter* **15** S65-S73.
35. Kilbride B E, Coleman J N, Fraysse J, Fournet P, Cadek M, Drury A, Hutzler S, Roth S and Blau W J 2002 “Experimental observation of scaling laws for alternating current and direct current conductivity

- in polymer-carbon nanotube composite thin films” *Journal of Applied Physics* **92** 4024-4030 [also in *Virtual Journal of Nanoscale Science & Technology* -September 30, 2002 Volume 6, Issue 14]
34. Hutzler S, Weaire D, Elias F, Janiaud E 2002 “Juggling with bubbles in cylindrical ferrofluid foams” *Phil. Mag. Lett.* **82** 297-301.
 33. Weaire D, Cox SJ, Hutzler S and Bradley G 2001 “Foams in microgravity” *J. Phys. IV France* **11** Pr6-213-Pr6-220.
 32. Cox SJ, Bradley G, Hutzler S and Weaire D 2001 “Vertex corrections in the theory of foam drainage” *J. Phys.: Condens. Matter* **13** 4863-4869.
 31. Weaire D and Hutzler S 2001 “Hard problems with soft materials”, in *Mechanics for a New Millennium*, eds. H Aref and JW Philips, Dordrecht, The Netherlands, Norwell, Mass Kluwer Academic Publishers, 275-288.
 30. Weaire D, Verbist G, Cox SJ and Hutzler S 2001 “Frontiers of the Physics of Foams”, Proceedings of the First International Symposium on Microgravity Research & Applications in Physical Sciences & Biotechnology, Sorrento, Italy, 10-15 September 2000 (ESA SP-454, January 2001) 103-108.
 29. Cox SJ, Alonso MD, Hutzler S and Weaire D 2000 “The Stokes experiment in a foam”, in *Foams, emulsions and their applications*, eds. Z Pacelli, J Banhart and G Verbist, Verlag MIT, Bremen, 282-289.
 28. Cox SJ, Weaire D, Hutzler S and Verbist G 2000 “Drainage phenomena in uniform and non-uniform foams”, in *Foams, emulsions and their applications*, eds. Z Pacelli, J Banhart and G Verbist, Verlag MIT, Bremen, 266-273.

27. Hutzler S, Cox SJ, Weaire D and Wilde PJ 2000 “New developments in foam drainage”, in *Foams, emulsions and their applications*, eds. Z Pacelli, J Banhart and G Verbist, Verlag MIT, Bremen, 5-12.
26. Weaire D, Hutzler S and Verbist G 2000 “Preface: The many facets of foams”, in *Foams, emulsions and their applications*, eds. Z Pacelli, J Banhart and G Verbist, Verlag MIT, Bremen, 3-4.
25. Cox S J, Weaire D, Hutzler S, Murphy J, Phelan R and Verbist G 2000 “Applications and generalisations of the foam drainage equation” *Proc. R. Soc. Lond. A* **456** 2441-2464.
24. Weaire D, Hutzler S and Verbist G 2000 “De schone schijn van schuim” (in Dutch) *Chemisch2Weekblad* **9** 12-13.
23. Hutzler S and Weaire D 2000 “Foam coarsening under forced drainage” *Phil. Mag. Lett.* **80** 419-425.
22. Hutzler S, Weaire D and Shah S 2000 “Bubble sorting under forced drainage” *Phil. Mag. Lett.* **80** 41-48.
21. Hutzler S 1999 “Book review: Food Emulsions and Foams (Ed. by E. Dickinson)” *J Sci Food Agric* **79** 1317-1318.
20. Weaire D and Hutzler S 1999 “Making, Modelling and Measuring Foams” *europhysics news* **30** 3 73-75.
19. Weaire D, Hutzler S, Banhart J, Phelan R and Verbist G 1998 “Foams in Microgravity” *Annals of the European Academy of Sciences and Arts* **22** 20-26.
18. Weaire D and Hutzler S 1998 “Nonlinear phenomena in soap froth” *Physica A* **257** 264-274.

17. Weaire D, Hutzler S, Findlay S and Phelan R 1998 “Foam drainage, measurement and theory”, Higher Institute of Food and Flavour Industries (HIFFI) - Plovdiv, Bulgaria, Scientific Works, vol. XLIII, Roll 3, 145-150.
16. In het Panhuis M, Hutzler S, Weaire D and Phelan R 1998 “New variations on the soap film experiments of Plateau: I. Experiments under forced drainage” *Phil. Mag. B* **78** 1-12.
15. Hutzler S, Weaire D and Crawford R 1998 “Convective instability in foam drainage” *Europhys. Lett.* **41** 461-465
14. Hutzler S 1997, “The Physics of Foams” (PhD thesis), Verlag MIT Tiedemann, Bremen, ISBN 3-9805748-4-9
13. Weaire D, Hutzler S, Verbist G and Peters E A J F 1997 “A review of foam drainage” *Advances in Chemical Physics* **102** 315-374
12. Hutzler S, Weaire D and Bolton F 1997 “Model simulations of two-dimensional liquid and solid foams” in 15th *IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics*, ed. by A Sydow Wissenschaft und Technik Verlag, Berlin vol. **3** 277-282
11. Hutzler S and Weaire D 1997 “Buckling properties of 2D regular elastomeric honeycombs” *J. Phys.: Condes. Matter* **9** L323-L329
10. Hutzler S, Weaire D and Crawford R 1997 “Moving boundaries in ordered cylindrical foam structures” *Phil. Mag. B* **75** 845-857
9. Hutzler S, Findlay S, Weaire D and Verbist G 1997 “Watch your head: new experiments and theory on foam drainage” Proceedings of the Fifth Meeting of the European Brewery Convention Foam Subgroup, Zouterwoude, The Netherlands, 41-52

8. Mc Murry S, Weaire D, Lunney J and Hutzler S 1995 “Response to ‘Importance of boundary reflections in the theory of diffusive light scattering’ ” *Opt. Eng.* **34**(11) 3345-3346
7. Hutzler S and Weaire D 1995 “The osmotic pressure of a two-dimensional disordered foam” *J. Phys.: Condens. Matter* **7** L657-L662
6. Hutzler S, Verbist G, Weaire D and Van der Steen J A 1995 “Measurement of Foam Density Profiles Using AC capacitance” *Europhys. Lett.* **31** 497-502
5. Hutzler S, Weaire D and Bolton F 1995 “The effects of Plateau borders in the two-dimensional soap froth, III. Further results” *Phil. Mag. B.* **71** 277-289
4. Weaire D and Hutzler S 1995 “Froth: A cosmic connection?” *Irish Astr. J.* **22** 39-42
3. Mc Murry S, Weaire D, Lunney J and Hutzler S 1994 “Theory of diffusive light scattering from disordered materials” *Opt. Eng.* **33**(12) 3849-3852
2. Weaire D, Pittet N, Hutzler S. and Pardal D 1993 “Steady-State Drainage of an Aqueous Foam” *Phys. Rev. Lett.* **71** 2670-2673
1. Weaire D, Hutzler S and Pittet N 1992 “Cylindrical Packings of Foam Cell” *Forma* **7** 259-263