

HUTZLER, Stefan
Ph.D., Dipl. Phys., M.A. *jure officii*,
Associate Professor and Fellow of Trinity College Dublin;

Affiliation/Address: School of Physics, Trinity College Dublin, the University of Dublin,
Dublin 2, Ireland

Homepage: www.tcd.ie/physics/foams

Email: stefan.hutzler@tcd.ie

Phone: 00353-1-896-1676

Fax: 00353-1-671-1759

BRIEF BIOGRAPHY

Born 01-10-1965 in Regensburg, Federal Republic of Germany.

Earned degrees

1994: Dipl. Phys. Univ. degree from Regensburg University, Germany

1997: PhD, University of Dublin, Trinity College, Ireland

2006 : M.A. *jure officii* University of Dublin, Trinity College, Ireland



Current position: Associate Professor at School of Physics, Trinity College Dublin

Date of Faculty Appointment 1999.

Fellow of Trinity College Dublin since 2007.

since 1999: Chartered Physicist, Member of the Institute of Physics

since 2006: Leader of the TCD research group “Foams and Complex Systems”
(this was previously the “Foams Group” of Prof. Weaire, F.R.S.)

since 2001: College Tutor

2009-2012: Director of Undergraduate Teaching and Learning in the School of Physics

since 2010: Leonardo member (advisory group) of the Science Gallery, Dublin

RESEARCH INTERESTS

S. Hutzler is co-author of nearly 150 publications, mainly in the area of physics of foams (concerning both experiment and theory/computation) and related packing problems, but also in econo- and sociophysics. He has co-authored two books (see below) and is guest editor of a special issue of Philosophical magazine (see below).

FIVE RECENT PUBLICATIONS

Dunne FF, Bolton F, Weaire D, Hutzler S (2017), [Statistics and topological changes in 2D foam from the dry to the wet limit](#), *Philosophical Magazine* **97** 1768–1781

Hutzler S, Sommer C, Richmond P (2016), [On the relationship between income, fertility rates and the state of democracy in society](#), *Physica A: Statistical Mechanics and its Applications* **452** 9-18

Weaire D and Hutzler S (2015), “Foams”, in [The Oxford Handbook of Soft Condensed Matter](#), by E. Terentiev (ed.) Oxford University Press, 147-166 (2015).

Hutzler S, Murtagh RP, Whyte D, Tobin ST, Weaire D (2014), [Z-Cone model for the energy of an ordered foam](#), *Soft Matter* **10** 7103-7108.

Richmond P, Sexton MB, Hardiman SJ, Hutzler S (2014), [Generalised Diffusion Model of Asset Price Fluctuations](#), *The European Physical Journal B* **87** 63.

(full list of publications: <http://physics.tcd.ie/Foams/publications>) h-index: 25

RECENT FUNDING

Science Foundation Ireland Principal Investigator Grant (2014-2018): “Usage of peat biomass in novel products obtained with fibre-foam dispersions”, in collaboration with VTT Finland and Bord na Mona, Ireland

Irish Research Council postgraduate award (2015-2019): “Models of wet foams and other systems of soft particles”

European Space Agency (2015-2018): “Development of advanced foams in microgravity”

CAREER HIGHLIGHTS

The book “The physics of foams” (Oxford University Press, 1999, 2001), co-authored with Prof. Denis Weaire, FRS, is considered a classic text in the field (over 800 citations since date of publication according to ISI Web of Science, “Cited Reference Search”) and was translated into Japanese in 2004. According to the late Nobel laureate P.-G. De Gennes, “...the book represents a major advance. It is written in a pleasant style and is accessible to a wide population of physicists.” (Physics Today, March 2001). The book “Econophysics and Physical Economics”, written together with Profs. Richmond and Mimkes, was published by Oxford University Press in 2013.

Conference organisation:

[Eufoam 2016](#), TCD (with M. Möbius, TCD and the Institute of Physics. This is the key conference related to all aspects of foam science.

“[International Workshop on Packing Problems](#)” (2012, School of Physics, TCD) together with A. Mughal, University of Aberystwyth. This has now been turned into a biennial event. (2014, University of Erlangen, 2016 Yale University). The TCD workshop proceedings were published as a special issue of Philosophical Magazine (vol. 93, nos 31-33, 3939-4173), with S. Hutzler as guest editor.

S. Hutzler was co-curator (together with D. Weaire and M. Möbius, TCD) of the exhibition “[Bubble-don't burst it](#)”, dedicated to the science of foams and soap bubbles. Taking place in the Science Gallery Dublin from 31-7 to 25-9-2009, it drew a record crowd of over 70,000 visitors to the Gallery and received extensive media coverage. In 2013 Hutzler co-curated (together with D. Repetto, Columbia University) the exhibition “[Oscillator – Everything in Motion](#)”, attracting over 55,000 visitors.

A full list of the media coverage of the work of the Foam and Complex Systems group can be found at <http://www.tcd.ie/Physics/research/groups/foams/media/>

STUDENT SUPERVISION

S. Hutzler has supervised 3 MSc and 10 PhD graduates and hosted 8 Postdoctoral researchers.

INVITED TALKS

Conference presentations: 15th Conference of the International Association of Colloid and Interface Scientists, Mainz, Germany (2015), Jam Packed, Erlangen, Germany (2014), Eufoam 2010, Borovets, Bulgaria (2010). Summer School of COST P21, Capri (2008). 52nd SEPAWA CONGRESS/European Detergent Conference, Würzburg, Germany, (2005). Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Regensburg, Germany (2004).

Seminars: Deutsches Zentrum für Luft und Raumfahrt, Köln, Germany (2015), Whitaker Institute, University of Galway, Ireland (2014). Universität Stuttgart (2013). VTT Technical Research Centre of Finland, Jyväskylä (2013). Department of Engineering, University of Warwick (2012). Physics Department, University College Cork (2007). Department of Engineering, University of Warwick (2004).

Public presentations: Physics and Art, Dublin (2017), Pint of Science, Dublin (2015), Bright Club Dublin (2015), Science Gallery Dublin: Curator Talk for Oscillator exhibition and Ignite presentation (2013); TCD Physical Society (2012), Dublin Philosophical Society (2011), W5 Interactive Discovery Centre, Belfast (2010), Project Arts Centre, Temple Bar, Dublin (2007), SEED Art-Science Salon, Dublin (2006).

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