

INM-KOLLOQUIUM

“TOWARDS THE DESIGN OF NEW SENSOAESTHETIC MATERIALS”

Prof. Dr. Mark Miodownik

University College London, GBR

Tuesday, June 25, 2019, 11:00 am

INM, Leibniz-Saal, Campus D2 5

Host: Prof. Dr. Roland Bennewitz

At the Institute of Making, we are actively conducting research into developing a sensoaesthetic theory of materials. Materials science concerns itself with the physical characterisation of materials, while artists and designers are generally much more interested in the aesthetic side of materials. Applying scientific methodology to the study of the aesthetic, sensual and emotional side of materials – their sensoaesthetic properties - allows us to increase our understanding of how people interact with materials, and to design more innovative and multisensory materials. In developing a sensoaesthetic theory of materials we aim to forge links between these two material domains. In this talk I describe our work in this area, its application to assistive technology, and the role of materials libraries as experimental tools.

References:

S. E. Wilkes & M. A. Miodownik (2018) Materials library collections as tools for interdisciplinary research, *Interdisciplinary Science Reviews*, 43:1, 3-23, DOI: 10.1080/03080188.2018.1435450

Sarah Wilkes, Supinya Wongsriruksa, Philip Howes, Richard Gamester, Harry Witchel, Martin Conreen, Zoe Laughlin, Mark Miodownik, Design tools for interdisciplinary translation of material experiences. (2016) *Materials & Design*.

Howes, P., Wongsriruksa S., Witchel HJ., Laughlin Z, Miodownik M, (2014) The perception of materials through oral sensation, *PLoS ONE* DOI: 10.1371/journal.pone.0105035

Wongsriruksa S., Howes, P., Conreen M., and Miodownik M. (2012) The use of physical property data to predict the touch perception of materials. *Material & Design* Vol 42, Pages 238–244.

Piqueras-Fiszman B, Laughlin Z, Miodownik M, Spence C (2012) Tasting spoons: Assessing how the material of a spoon affects the taste of the food. *Food Quality & Preference*, 24(1):24-29

Laughlin Z., Conreen M., Witchel HJ. and Miodownik M. (2011) The use of standard electrode potentials to predict the taste of solid metals. *Food Quality & Preference*, 22 (7), pp. 628-637

You are invited to have coffee with the speaker 15 minutes before the talk starts.

KONTAKT

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