



Contribution ID: 7

Type: **not specified**

Hands-on Projects for Teaching DOE

Tuesday, 29 September 2020 17:00 (1 hour)

Are you interested in case studies and real-world problems for active learning of statistics? Then come and join us in this interactive session organised by the SIG Statistics in Practice. A famous project for students to apply the acquired knowledge of design of experiments is Box's paper helicopter. Although being quite simple and cheap to build, it covers various aspects of DoE. Beyond this, what other possible DoE projects are realistic in a teaching environment? What are your experiences in using them? Can we think of new ones? There are lots of ideas we could explore, involving more complex scenarios like time series dependents with cross overs, functional data analysis, as well as mixture experiments. We want to share projects, discuss pitfalls and successes and search our mind for new ideas. Come and join us for this session. You may just listen, enjoy and hopefully contribute to the discussion or even share a project idea. Please send an email to Sonja (sonja.kuhnt@fh-dortmund.de) or Shirley (shirley.coleman@newcastle.ac.uk) if you have a hands-on project and are willing to share it with us. The project should be doable within 2-3 teaching lessons and affordable material. If selected, we ask you to introduce the case during the session briefly (5 minute maximum). You can do it either live or via a recorded mini-presentation.

Presenters: KUHNT, Sonja (Professor of Mathematical Statistics at FH Dortmund University of Applied Sciences and Arts, Germany); COLEMAN, Shirley (Technical Director at Industrial Statistics Research Unit, Newcastle University, UK)

Session Classification: Active Session