Overview
The purpose of this 2-day workshop is to promote the use of models in the engineering of software systems. In particular, we are interested in the exchange of innovative technical ideas and experiences related to modelling. Engineers have used models to manage complexity for centuries, and there is a growing body of work on the use of models to manage inherent problem and solution complexity in software development. The use of software models will become more prevalent as methodologies and tools that manipulate models at various levels of abstraction become available.

Workshop activities will focus on analyzing successful applications of software-modeling techniques to gain insights into challenging modeling problems, including: (1) identifying, describing, and using appropriate abstractions, (2) supporting incremental, iterative development through the use of appropriate model composition, transformation and other model manipulation operators, and (3) automated analysis of possibly large, possibly incomplete models to determine the presence or absence of desired and undesired properties.

Topics
Topics of interest include:

- Modeling notations and tools
- Metamodeling
- Abstractions and modeling methodologies
- Model-based analysis and synthesis
- Model transformation and composition
- Model evaluation
- Model management
- Extracting models from software artifacts
- Models for learning machines
- Models of big and smart data
- Use of models for downstream activities
- Modeling the system environment
- Modeling cyber-physical systems
- Models at runtime (e.g., for software adaptation)
- Models for “what-if?” analysis and prognostics
- Empirical studies
- Domain-specific modeling
- management using models
- Model reuse
- Further uses of modeling

Submission guidelines
Although the workshop is open to all, prospective participants are invited to submit an up to 8 page position or technical paper, or a 2 page tool demo paper. Workshop papers must follow the ICSE 2017 Format and Submission Guideline. All submissions will be reviewed by members of the program committee and the organizing committee for quality and relevance. Accepted papers will become part of the workshop proceedings. EasyChair will be used to manage the submission review process. Paper can be submitted via Easy Chair using the following link:

https://easychair.org/conferences/?conf=mise18

The official publication date of the workshop proceedings is the date the proceedings are made available in the ACM Digital Library. This date may be up to two weeks prior to the first day of ICSE 2018. The official publication date affects the deadline for any patent filings related to published work.

Important dates
- Workshop paper submissions due: February 5th 2018
- Notification to authors: March 5th 2018
- Camera-ready copies due: March 19th 2018

Organizers
Richard Paige, University of York, UK
Sahar Kokaly, McMaster University, Canada
Jocelyn Simmonds, University of Chile, Chile
Jennifer Horkoff, Chalmers/Univ of Gothenburg, Sweden

Programme Committee
(to be confirmed)