



UNCERTAINTY IN COMPUTER MODELS 2012 CONFERENCE PROGRAMME

Monday 2nd July 2012

ARRIVAL

SESSION 1

SESSION 2

09:30	Registration	Kenwood Suite Lounge Area
13:00	Registration closes	Kenwood Suite Lounge Area
09:30	Welcome Refreshments	Wolstenholme Room

Session Chair: Tony O'Hagan

11:00	Opening of Conference & Welcome	
11:10	Grant Reinman <i>Design for Variation at Pratt & Whitney: A Large Scale Aerospace Implementation of Probabilistic Methods in Design & Development</i>	Invited Talk
12:00	Lindsay Lee <i>Sensitivity analysis of a complex global aerosol model to quantify parametric uncertainty</i>	Contributed Talk
12:30	Comfort Break Kenwood Suite	
12:40	James Holloway <i>Assessing Uncertainties in Radiative Shock Modeling</i>	Contributed Talk
13:10	Pascal Pernet <i>Managing uncertain branching ratios in chemical models</i>	Contributed Talk
13:40	Lunch Tempus Restaurant	

Session Chair: Jeremy Oakley

14:40	Brian Williams <i>Sequential Importance Sampling for Rare Event Estimation with Computer Experiments</i>	Invited Talk
15:30	Peter Challenor <i>Emulators for Extremes Estimated From Numerical Simulators</i>	Contributed Talk
16:00	Refreshments & Informal Discussion Wolstenholme Room	
16:30	Pierre Barbillon <i>Bounding rare event probabilities in computer experiments</i>	Contributed Talk
17:00	Clément Chevalier <i>Multipoint sampling criteria for the identification of an excursion set</i>	Contributed Talk
17:30	led by Dan Cornford	Poster Spotlight Session One minute poster spotlight presentations
18:00	Close of Day	
19:00	Informal Dinner Tempus Restaurant	
20:00	Drinks Reception & Poster Session Kenwood House Conf Centre	



09:20	Jonty Rougier	<i>Two modes of science: The challenge of uncertainty assessment in complex systems</i>	Invited Talk
10:10	Hannah Arnold	<i>Reliably predicting uncertainty in weather and climate forecasts</i>	Contributed Talk

Refreshments & Informal Discussion

Wolstenholme Room

11:10	Omar Ghattas	<i>Uncertainty Quantification for Large Scale Inverse Problems with Applications to Seismic Inverse Problems</i>	Invited Talk
12:00	David Ginsbourger	<i>Some new classes of kernels for Gaussian Process modelling</i>	Invited Talk

Lunch

Tempus Restaurant

12:50 followed by continuation of
Poster Session

Kenwood House Conf. Centre

15:00	Ian Vernon	<i>Emulation and Efficient History Matching of Stochastic Systems Biology Models</i>	Contributed Talk
15:30	Ben Youngman	<i>Bayesian calibration of multivariate stochastic computer models</i>	Contributed Talk

Refreshments & Informal Discussion

Wolstenholme Room

16:30	John Paul Gosling	<i>Multilevel modelling of an oil reservoir simulator: probabilistic Bayesian and Bayes linear approaches to history matching</i>	Contributed Talk
17:00	Vladimir Fonoberov	<i>Global Sensitivity-Based Calibration of Computer Models</i>	Contributed Talk

17:30 **Close of Day**

20:00 **Formal Conference Dinner** **Kenwood Suite**

09:20	David Steinberg	<i>Characterizing Uncertainty for Modelling Response to Treatment</i>	Invited Talk
10:10	Mark Strong	<i>Computing the expected value of model improvement in the context of health economic decision making. A model discrepancy based approach</i>	Contributed Talk

Refreshments & Informal Discussion

Wolstenholme Room

11:10	Richard Wilkinson	<i>Diagnostic plots for dynamical systems</i>	Contributed Talk
11:40	Jonathan Cumming	<i>Emulating expensive decision choices with application to computer models of complex physical systems</i>	Contributed Talk

12:10 **Lunch** **Tempus Restaurant**

13:10	Nigel Fox	<i>Some challenges to meet the needs of Earth Observation & Climate</i>	Invited Talk
14:00	Yiannis Andrianakis	<i>Super parameterisation of ocean convection using emulators</i>	Contributed Talk

Refreshments & Informal Discussion

Wolstenholme Room

15:00	Alexis Boukouvalas	<i>Optimal Design for Stochastic Emulation with Heteroscedastic Gaussian Process Models</i>	Contributed Talk
15:30	Jarno Vanhatalo	<i>Probabilistic calibration of 3D-ecosystem model in Gulf of Finland</i>	Contributed Talk

16:00 **Close of Conference**

16:10 **Departure Refreshments & Informal Discussion** **Wolstenholme Room**

16:30 **End of UCM 2012 & Departure**

