search osting **Industry Workshop**



INTERACTIVE WORKSHOPS

Tuesday 4th November 2014, Bailbrook House, Bath, BA1 7DA

The workshops will provide demonstrations/interaction with the research we have undertaken with our industrial partners. The aim is to provide delegates with an overall insight to the methods we have adopted using a hands-on approach.

Programme:

09:30	Registration ar	nd Coffee
03.30	registration at	ia correc

Welcome and Opening Remarks -Linda Newnes, University of Bath

"Smart Maintenance Decision Support Systems" Dr Dan Bumblauskas - University of Northern Iov

We have heard of big data and predictive analytics, but how can we account for true field repair and replacement cost scenarios in our maintenance planning and modelling? This talk will provide an overview of common field costing in the energy industry and the development of a predictive model(s) to address such cost concerns and considerations. These models aid asset and operations managers as they make field operations and supply chain management decisions.

Workshop A - Costing for Availability Workshop B - Uncertainty in Contract Bidding

11:30 Coffee Break

Workshops continue

Lunch

Review of workshops

"Optimizing Optimism: Why Engineers Should be More Like Gamblers

Dr Ricardo Valerdi - University of Arizona

This talk focuses on the biggest source of estimation error: the human. I will present heuristics, commonly observed shortcuts in decision-making, which are frequently observed in cost estimation. I will also demonstrate how biases - specifically optimism bias can be measured and corrected to improve estimation accuracy. The goal of this talk is to encourage the cost community to be more like gamblers and less like engineers.

Closing Remarks -Linda Newnes, University of Bath

15:30 Coffee and Opportunity for individual confidential discussions Depart

Price to Win/Value estimation

This workshop will provide an introduction to our 'Uncertainty in Contract Bidding/Price to Win' tool. Using an example based on industrial case studies we will demonstrate:

- A step-by-step approach to elicit data on customer budgets and competitors.
- The use of subjective probabilities and expert knowledge.
- Show how this tangible/monetary information can be used to ascertain the probability of winning the contract/providing value for money and the probability of making a profit.

Finally, we will introduce the work we have undertaken with Georgia Institute of Technology to ascertain the 'value' of your offering to the customer.

Academics

Dr Linda Newnes, University of Bath Dr Goh, Loughborough University Dr Paredis, Georgia Institute of Technology

Industrial Partners

Rolls Royce Submarines BAE Systems – Australia, Military Air & Information and Maritime Services

Costing for Availability

Many High Value Manufacturing industries have moved from selling products to providing their products/assets with support arrangements. An example would be a contract to guarantee an availability/capability. However, current cost estimating approaches tend to focus on the reliability of the product/asset. Our findings show the benefit of estimating the cost of the delivery system – a network of interconnected and independent activities undertaken by various stakeholders. This workshop will demonstrate:

- What to consider when analysing field reliability data.
- How to capture the complex interdependence of customers and providers delivering availability contracts.
- How to use this knowledge/information to estimate the cost of availability.

Academics

Dr Linda Newnes, University of Bath Dr Settanni, University of Bath Mr Thenent, University of Bath Dr Goh, Loughborough University Dr Parry, University of the West of England

Industrial Partners

BAE Systems Military Air & Information GE Aviation, Avionic Systems, CAAS, DE&S MoD.

COST £70 Click here to book

We have a small number of spaces available for delegates from academia. Please contact Dr Newnes to book your space.

