

Grady Booch Software Architecture Masterclass



Venue

Royal Academy of Engineering
29 Great Peter Street
SW1P

Thursday 13th September

- 1030 Reception
- 1100 Introduction to the masterclass (purpose / objectives / results)
 - Introductions
 - Format for the 2 days
- 1130 Keynote from Grady
- 1230 Lunch
- 1330 Summary of breakout sessions
 - Aligning attendees with breakouts
- 1400 Breakout sessions
 - 1 – Architecture representation
 - 2 – The linkage of requirements to architecture
- 1600 Feedback from breakouts
- 1700 Close
- 1900 Dinner at the Athenaeum Club, 107 Pall Mall

Friday 14th September

- 0830 Coffee
- 0900 Breakout sessions
 - 3 – Meeting quality of service requirements
 - 4 – Software engineering versus systems engineering
- 1100 Feedback from breakouts
- 1200 Wrap up and next steps
- 1215 Close

Breakout 1 – Architecture Representation

Facilitator (IBM)	Reporter (IBM)	Presenter (academia)
Richard Hopkins	Nick Whidborne	Behzad Bordbar

Participants attending this breakout session are invited to discuss their experiences in developing and using architecture representations. In keeping with the workshop's objectives, we aim to develop a group view on specific initiatives that would address any deficiencies identified during the session. This session will look at the state-of-the-art in languages, standards and methods underpinning modelling of software architecture both in academia and industry. It will question how software architecture models are being used to develop software systems (e.g. Model Driven Development), the value they provide, and how these models could be used more dynamically and more accurately on software development projects.

Breakout 2 - Linkage of requirements to architecture

Facilitator (IBM)	Reporter (IBM)	Presenter (academia)
Pieter Lindeque	Dan Bailey	Peter Henderson

Defining requirements is a complex matter. Without realising it, we often end up describing something that is too hard to visualise and may well be undeliverable. Business leaders and their analysts regularly define IT requirements that are not achievable. It is as if, in engineering terms, they are requesting a 1000 metre cantilever bridge, which is way beyond current capabilities. It is not so easy to visualise software architecture, so the impossible is not so obvious. This session will discuss the importance of linking requirements to architecture and using the architecture to focus on the customer's real business needs. The group discussion will focus on approaches to effectively capture and manage requirements. This will be achieved by drawing on a realistic solution, a "roving autonomous vehicle" capable of being used on a Mars landing. The proposed solution will be required to focus on open systems, due to the nature of how the solution will be delivered from a consortium of independent vendors, to re-use available assets and for the ability for it to be upgradeable throughout its life.

Breakout 3 - Meeting quality of service requirements

Facilitator (IBM)	Reporter (IBM)	Presenter (academia)
Chris Winter	Pete Cripps	Wolfgang Emmerich

This session will examine the challenges in addressing architectural qualities when defining an architectural solution.

Breakout 4 - Software versus systems engineering

Facilitator (IBM)	Reporter (IBM)	Presenter (academia)
Tracy Gardner	Steve Rooks	John McDermid

The session will consider the relationship of systems and software engineering trying to identify where they may be in conflict, and where they may be in harmony. The session will seek to identify areas where Universities and industry need to collaborate, e.g. in research and in education of tomorrow's systems and software engineers.