

# Meeting Minutes

**Meetings:** April 21, 2015 meeting of Patterns Challenge Team of MBSE Initiative, via web conferencing.

**Participants:**

(\*\*= co-chairs of challenge team)

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**Summary:** (more details later below)

1. Wave 1 Projects: Six IS2015 papers using patterns from Patterns Challenge Team authors accepted.
2. Wave 2 Projects: Six new team projects have owners, starting in April or earlier months. Individuals and organizations are encouraged to join these sub-teams or participate in the ASELCM Project.
3. GLRC2015: The ninth annual INCOSE Great Lakes Regional Conference (October, 2015) has its Call for Presentations out, and team members are encouraged to submit PBSE-related abstracts by the May 16 deadline. Presentations due in July.
4. Wave 3 Project Candidates: Seven possible candidate PBSE projects suggested by members for potential future action by this Challenge Team. Owners or workers needed to make them go.
5. Future Meetings Agenda: Planning May, June, and IS2015 meetings of this Challenge Team. Members suggest including some technical content on “how to” and review of S\*Patterns and S\*Metamodel content, similar to a year earlier. Other topics also solicited.
6. Next Meetings Schedule: of the Patterns Challenge Team will be on May 19 (4PM EST), June 16 (4PM EST), and at IS2015 (to be scheduled). Focal content of these will return in part to pattern technical content review and “how to”, as in some previous meetings.

## Details:

7. Wave 1 Projects: The six accepted IS2015 papers from Patterns Challenge Team authors are:
- Automated Test in Safety Critical Systems: D. Cook et al, Moog Aerospace
  - Reducing Error Escapes in Safety Critical Control Systems: A. Pickard et al, Rolls-Royce
  - Automated Ground Vehicles: T. Peterson et al, Booz Allen Hamilton
  - MBSE Across the Enterprise: S. Sanyal et al, K2
  - Maps vs. Itineraries: W. Schindel, ICTT System Sciences
  - Tracking System Trajectories: W. Schindel, ICTT System Sciences

Drafts of above are shared at:

[http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns\\_challenge\\_team\\_mtg\\_01.26-27.15](http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns_challenge_team_mtg_01.26-27.15)

8. Wave 2 Projects: Status of the new crop of S\*Patterns interested parties and projects:
- PBSE Methodology Summary our team is drafting to add to the INCOSE MBSE methodology summaries listing: Member review inputs on the draft should be sent to Bill Schindel by May 1, for consideration in updated version to be submitted to INCOSE in May.
  - Agile Systems Engineering Life Cycle Model (ASECLM) Project, will use S\*Pattern representation for the related ASELN Pattern: Workshop sites in progress of being established for 2015-16 (with Rick Dove, Agile Systems WG, et al). Six organizations currently scheduling 2015 workshops at their sites, and more are invited to apply for 2015-16, including commercial and Europe-based, as well as defense.
  - Systems Engineering Social Network Pattern (Chris Hoffman, Cummins), will describe an SE Community of Practice Social Network S\*Pattern. Chris is starting in April and invites interested members to his weekly work sessions. Planning a GLRC2015 submission.
  - Health Care Reference Pattern (Vijay Thukral, Cientive), will describe a reference model with special focus on Electronic Medical Records. Vijay is starting in April, and plans to coordinate with Health Care WG through Ajay Thukral; Bill emphasized that coordination.
  - Manufactured Product PLM Pattern Implementation (Saumya Sanyal, K2): Will demonstrate the mapping of a product line S\*Pattern into a COTS PLM environment.
  - Electrical Power Systems Reference Pattern: (John Juhasz, Telepath) Not discussed in John's absence.

9. PBSE Methodology Summary review draft for INCOSE MBSE Methodologies directory may be found at:

[http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns\\_challenge\\_team\\_mtg\\_04.21.15](http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns_challenge_team_mtg_04.21.15)

Please supply review comments to Bill Schindel by May 1, for consideration in the May update.

10. Great Lakes Regional Conference Call for Presentations details:

[https://www.incose.org/newsevents/currentevents/2015/01/14/incose-great-lakes-9th-regional-conference-2015-\(glrc9\)](https://www.incose.org/newsevents/currentevents/2015/01/14/incose-great-lakes-9th-regional-conference-2015-(glrc9))

11. Wave 3 Project Candidates: (interested project leaders / workers sought)

- Mapping to COTS Tools and Information Systems
- Mapping to ISO 15288; Processes vs. Data (Maps vs. Itineraries)
- Implementation Strategies
- Example Product Line Engineering (PLE) Pattern (Joint with PLE WG)
- Example SOS Pattern (Joint with SoS WG)
- Example Space Systems Pattern (e.g., CubeSat; Joint with Space Systems WG)
- Supporting INCOSE objective for SE as model-based; the Case for Stronger Model Semantics
- Other interests from team members

**Action Items:**

12. SysML Methodology Summary: Team member mark-up inputs and return to [schindel@ictt.com](mailto:schindel@ictt.com) by May 1. (Troy P; all team members)
13. Update the S\*PBSE methodology summary, based on team review feedback, for submission to INCOSE in May. (Bill S.)
14. Outreach: Follow up with other WGs on potential joint projects using PBSE (Bill S.)
15. Support the four Wave 1 Projects' sub-teams and paper authors, in their updates to their patterns, their applications, and their papers (Sub-team members, Bill S.)
16. Support Midwest Regional Biomedical / Healthcare Working Group interest in reference architecture pattern (Vijay Thukral, Bill S)
17. Support Systems Engineering Community of Practice Social Network Pattern (Chris Hoffman, Bill S)
18. Support Electrical Power Reference Model pattern (John Juhasz, Bill S)
19. Support Manufactured Product PLM COTS Implementation Example (Saumya Sanyal, Bill S)

**References:**

20. General web site for Patterns Challenge Team, charter, meetings listing, etc.:  
<http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns>
21. April 21 meeting agenda, meeting materials, at:  
[http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns\\_challenge\\_team\\_mtg\\_04.21.15](http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns_challenge_team_mtg_04.21.15)