**Software Certification Consortium - Meeting #14**

**January 26-27, 2015 - NRC Headquarters - Rockville, MD**

**The road to a cyber-physical system with designed-in assurance**

**workshop agenda**

| **Time** | **Presenter** | **Organization** | **Topic** |
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| **1/26**  **7:00** | **ALL** | **ALL** | **Registration. Coffee. Refreshments. Networking.** |
| 8:00 | Alan Wassyng | SCC | Welcome address. |
| 8:10 | Dr. Andreas  Dr. Buttles-Valdez? | Pepperdine U  SEI | Introductions:  People  Workshop theme. |
| 8:25 | Dr. Andreas | Pepperdine U | Introduction to whole-group, workshop-long exercise. |
| 8:30 | Michael May | USDOD-OASD(R&E) | Software(-dependent systems) assurance: Significance to USDOD |
| 9:00 | Anura Fernando | UL | Assurance for a system of medical devices: A UL Vision. |
| 9:20 | Small-group discussion – D1 | 6 groups or so.  Facilitator-moderated | Digest DoD and UL visions.  Set individual vision. |
| **9:50** | **ALL** | **ALL** | **Break. Coffee. Refreshments. Networking.** |
| 10:05 | Tom Maibaum | McMaster U. | A structure for reasoning. |
| 10:25 | Chuck Weinstock | SEI | Assurance framework. |
| 10:45 | Darren Cofer | Rockwell-Collins | Built–in Assurance: Results from DARPA HACMS project. |
| 11:25 | Small-group discussion – D2. | 6 groups or so.  Facilitator-moderated | Digest assurance case logic framework.  Map into individual domain and vision. |
| **12:00** | **ALL** | **ALL** | **Lunch.**  **Networking.** |
| 13:00 | John Hatcliff | KSU | Assurance of a patient-specific network of medical devices. |
| 13:55 | Peter Feiler | SEI | Integrated environment for development and assurance. |
| **14:45** | **ALL** | **ALL** | **Break. Coffee. Refreshments. Networking.** |
| 15:00 | Bruce Lewis | US Army Aviation and Missile R& D & Engineering Center | Integrated environment: AADL-based framework. |
| 16:00  -  16:45 | Small-group discussion – D3. | 6 groups or so.  Facilitator-moderated | The potential of architectural engineering, supported with modeling & tools.  Map into individual domain and vision. |

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| **1/27**  **7:00** | **ALL** | **ALL** | **Coffee. Refreshments. Networking.** |
| 8:00 | Janos Sztipanovits | Vanderbilt U. | Correct-by-construction:  State of the art. |
| 9:00 | Small-group discussion – D4. | 6 groups or so.  Facilitator-moderated | What did we learn from the phone example?  Map into individual domain and vision. |
| **9:30** | **ALL** | **ALL** | **Coffee. Refreshments. Networking.** |
| 9:45 | Tom Maibaum | McMaster U. | Quality measurement |
| 10:20 | Sushil Birla | NRC | NRC’s recent research and plans under development |
| 10:45 | Small-group discussion - D5. | 6 groups or so.  Facilitator-moderated | Discuss quality attributes & relationships.  Map into individual domain and vision. |
| **11:30** | **ALL** | **ALL** | **Lunch.**  **Networking.** |
| 13:00 | Dr. Palma Buttles-Valdez | SEI | Capacity-building; capability development -  Individual; organizational. |
| 14:00 | Dr. Dorothy (Collins) Andreas | Pepperdine U | Addressing the communication gap. |
| **15:00** | **ALL** | **ALL** | **Coffee. Refreshments. Networking.** |
| 15:15 | Whole group discussion | Facilitator-moderated | Recap.  Path forward. |
| 16:15 | Dr. Michael May | USDOD-OASD(R&E) | Observations on planning research for transition |
| 16:45 | Dr. Wassyng |  | Closing remarks. |
| **17:00** | **End** |  |