

## AGENDA

### WEDNESDAY

8:30-9:00	Welcome and Introductions
9:00-9:30	Gerard Holzmann – NASA / JPL
9:30-10:00	David Parnas – Middle Road Software
10:00 - 10:15	Coffee
10:15 - 11:00	<b>Discussion 1</b> – What are the key system engineering principles necessary to achieve safety? How are software elements of a system different? ( failure mechanisms, benefits of diversity, quantitative reliability)
11:00 - 11:30	John Goodenough – SEI
11:30 – 12:15	<b>Discussion 2</b> – What are the challenges in certifying systems containing COTS? (ability to certify a black box, value of operating history, competencies of practitioners)
12:15 - 1:15	Lunch
1:15 - 1:45	Mats Heimdahl – University of Minnesota
1:45 – 2:30	<b>Discussion 3</b> –What kind of hazards can be introduced during software design that were not explicit in the requirements, and how can they be identified?
2:30 – 4:15	<b>Breakout 1</b> - What are the outstanding research questions related to gaining confidence in a system’s specification of critical properties? (including coffee)
4:15 – 4:45	Summary from Breakout 1

### THURSDAY

8:30 - 9:00	John Knight – University of Virginia
9:00 – 9:45	<b>Discussion 4</b> – What evidence should be produced to support the certification of critical systems containing software?
9:45 – 10:15	Joe D’Ambrosio – GM
10:15 - 10:30	Coffee
10:30 - 11:15	<b>Discussion 5</b> – What body of knowledge do practitioners need to know in order to develop critical systems containing software? What should the role of licensed professional engineers be?
11:15 - 11:45	Sushil Birla – US NRC
11:45 - 12:45	Lunch
12:45 - 1:15	Paul Jones – US FDA
1:15 – 2:00	<b>Discussion 6</b> – What criteria should be used for the evaluation of an assurance case that can be effectively applied by a 3 <sup>rd</sup> party certifier?
2:00 – 3:45	<b>Breakout 2</b> - What are the outstanding research questions related to gaining confidence in a system’s implementation? ( including coffee )
3:45 - 4:15	Summary from Breakout 2
4:15 – 4:30	Wrap-up