

T-AREA-SoS U.S. WORKSHOP PROGRAMME

5 – 7 November 2012 • Lockheed Martin Global Vision Center, Arlington

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The Trans-Atlantic Research and Education Agenda in System of Systems (T-AREA-SoS) is a support action project funded by the European Commission with the primary purpose of formulating a research agenda for the system of systems area that spans US and European activities.

The objectives of this workshop are to:

- Develop a strategic research and education agenda in Systems of Systems that is of interest to both US and EU, through the auspices of an EU-US expert community
- Identify synergies and opportunities between current EU research programmes in Systems of Systems and US counterparts

Delegates are encouraged to join the T-AREA-SoS Expert community via registration at: (<https://www.tareasos.eu/registration.php>)

Once registered, delegates can download three T-AREA-SoS reports that are important inputs to this workshop, namely (<https://www.tareasos.eu/results.php>):

- TAREA-PU-WP2-D-LU-9 (State of the Art report in SoS)
- TAREA-PU-WP3-D-BU-12 (Gap Analysis report)
- TAREA-PU-WP3-D-BU-13 (High Level Requirements report)

If you have any difficulty accessing these, please contact Sharon Henson (s.a.henson@lboro.ac.uk)

Besides the T-AREA-SoS support action programme, there are 7 European research programmes represented at the workshop. These are:

ADVANCE (Advance Design and Verification Environment for Cyber-Physical Systems Engineering)

<http://www.advance-ict.eu/news.html>

COMPASS (Comprehensive Modelling for Advanced Systems of Systems)

<http://www.compass-research.eu/approach.html>

DANSE (Designing for Adaptability and evolution in System of systems Engineering) (Presentation)

<http://www.danse-ip.eu/home/>

PLANET (Platform for the Development and Operation of Heterogeneous Networked Cooperating Objects) (Presentation)

<http://www.planet-ict.eu/>

ROAD2SOS (Roadmaps for Systems of Systems Engineering) (Presentation)

http://www.road2sos-project.eu/cms/front_content.php

VERDI (Very Extensive Rights Data Information)

<https://wiki.eas.iis.fraunhofer.de/verdi/index.php/Public:Abstract>

LABEX

MONDAY 5 November 2012	
Time	Event
09:00 - 09:30	Welcome and Review of Workshop Goals Welcome and Participant Introductions: Mo Jamshidi , University of Texas at San Antonio (UTSA) and Dan DeLaurentis , Purdue University Program Details: Michael Henshaw , Loughborough University, UK
09:30 - 10:00	Session 1 Introduction to Trans-Atlantic Agenda for Systems of Systems (T-AREA-SoS) Michael Henshaw , Loughborough University, UK Chair: Mo Jamshidi , UTSA
10:00 - 10:20	Session 2 European Commission Support in SoSE : An Overview Michael Henshaw , Loughborough University, UK Chair: Mo Jamshidi , UTSA, USA
10:20 - 10:40	COFFEE BREAK
10:40 - 12:00	Session 3 State of the Art Report and Gap Analysis Report + Discussion Panel: Vishal Barot , Cornelius Ncube , Michael Henshaw , T-AREA-SoS Chair: Dan DeLaurentis , Purdue, USA
12:00 - 13:00	LUNCHEON
13:00 - 14:00	Session 4 Review of US SoSE Efforts - Aerospace, Defense and Space Presentation: John Palmer , Boeing Panelists: Judith Dahmann , Mitre, Garry Roedler , LMC Panel Chair: Mo Jamshidi , UTSA, USA
14:00 - 15:30	Session 5 SoSE Funding Priorities in USA Speakers: Kishan Baheti , George A. Hazelrigg , NSF, Bob Pearce , NASA, Kristen Baldwin , OSD Chair: Dan De Laurentis , Purdue, USA
15:30 - 15:50	COFFEE BREAK

15:50 - 17:20	<p style="text-align: center;">Session 6</p> <p>Review of US-EU SoSE Research and Educational Efforts in Academia US Panelists: Cihan Dagli, UMST, Jo Anne Lane, USC, Art Pyster, Stevens Inst Tech, Dan De-Laurentis, Purdue, and Daniel Pack, UTSA.</p> <p>EU Panelists: John Fitzgerald, Newcastle University, Karstein Einwich, Fraunhofer Gesellschaft Institut, Colin Snook, University of Southampton.</p> <p style="text-align: center;">Panel Chair: Mo Jamshidi</p>
17:20 - 17:30	<p style="text-align: center;">Recap of the Day: Preview of Tuesday Schedule Michael Henshaw, Loughborough University, UK</p>
18:30 - 20:30	<p style="text-align: center;">NO-HOST DINNER</p> <p style="text-align: center;">Ted's Montana Grill - TBC</p>

TUESDAY 6 November 2012	
Time	Event
09:00 - 09:20	Recap of Day 1; Goals for Day 2 Sharon Henson and Vishal Barot
09:20 - 11:00	Session 7 EU Projects (20 minutes each) COMPASS, John Fitzgerald, Newcastle University, UK DANSE, Michael Henshaw, Loughborough University, UK ADVANCE, Colin Snook, University of Southampton, UK PLANET, Michael Henshaw, Loughborough University, UK VERDI, Karsten Einwich, Fraunhofer Gesellschaft Institut, Germany ROAD2SOS, Michael Henshaw, Loughborough University, UK Chair: Carys Siemieniuch
11:00 - 11:20	COFFEE BREAK
11:20-12:20	Session 8 Establishing US-EU Collaborative SoSE Research Opportunities and Mechanisms Kishan Baheti, NSF, George A. Hazelrigg, NSF, Bob Pearce, NASA, Kristen Baldwin, OSD, Garry Roedler, LMC, Judith Dahmann, Mitre, Chair: Dan De Larentis, Purdue, USA
12:20 - 13:00	LUNCHEON
13:00 - 13:45	Session 9 LABEX Abdelmadjid Bouabdallah, University of Technology of Compiègne, France.
13:45 - 17:00 (20 min coffee break included)	Session 10 Syndicate Sessions on SoSE Research Themes for the Strategic Research Agenda Objectives for each syndicate <ul style="list-style-type: none"> • Identify synergies between US and EU project • Determine the extent to which synergies address gaps identified by T-AREA-SoS, or address new gaps (not yet identified) • Determine key points of future agenda for research in SoSE based on this discussion and alignment • Derive principal Research requirements
17:00 - 18:00	Feedback from Syndicates Chair: Michael Henshaw, Loughborough University, UK

WEDNESDAY 7 November 2012	
Time	Event
08:30 - 09:00	Recap of Day 2; Goals for Day 3 Sharon Henson and Vishal Barot
09:00 - 10:30	Session 11 Plenary Discussion on Emerging Strategic Research Agenda (based on syndicate outputs) Chair: Mo Jamshidi
10:30 - 10:50	COFFEE BREAK
10:50 - 11:30	Session 12 Review Workshop and Presentation of Forward Actions Carys Siemieniuch , Loughborough University, UK and Dan DeLaurentis , Purdue University, US Chair: Michael Henshaw