



# 2008 International Workshop Technical Infrastructure Guide

		<i>Application Sectors</i>							
		Aerospace & Defense	Market Driven Products	Emerging Technologies	Enterprise	Information Systems	Infrastructure	Public Interest	Transportation
<i>SE Enablers</i>	Systems Science								
	SE Technical Process								
	SE Management Process								
	SE Support Process								
	Modeling & Tools								
	Specialty Engineering								

# 2008 INTERNATIONAL WORKSHOP

## General Information

**Schedule by Group:**.....pages 7–16

**Schedule by Day:** ..... pages 17–19

**Hotel Meeting Facilities Map:**..... back cover

**Meeting Rooms:** All meeting rooms are located on the lobby level with the exception of the 200 numbered rooms which are located on the second floor.

**Ad-Hoc meetings:** Check at the INCOSE Registration Desk for available meeting.

**Cancelled meetings:** If you have cancelled a scheduled meeting, please leave a message at the IW registration desk. Meeting space is limited and there are groups who may need the room.

**Messages:** Incoming messages will be received at the IW Registration Desk during meeting hours and will be posted on the message board in the conference registration area. Callers should phone +1 505 245 7100 and ask for the INCOSE International Workshop Registration Desk. We encourage you to check the message board regularly.

**Cyber Café:** The INCOSE International Workshop Cyber Café is located in Sierra III (located on the main level), and is equipped with PCs, printers and a copier for your convenience. This equipment is all self-service.

### Hours for the Cyber Café:

**Saturday-Monday 7:00 AM – 7:00 PM /Tuesday 7:00 AM – 7:30 PM**

All INCOSE International Workshop participants are invited to the **Symposium Banquet**. Spouses/Partners must provide a pre-purchased ticket for these events. Please check your program for times and locations. The Banquet will take place at the Embassy Suites in Sandia IV/V.

**Breakfasts** will not be provided since they are included with your stay at the Embassy Suites. The breakfast is served in the Atrium area, 6 AM to 9:30 AM Monday through Friday and 7 AM to 10:30 AM Saturday and Sunday.

**Breaks and lunches:** Breaks will be in the Sandia Ballroom Foyer. Buffet lunches will be served in the Atrium.

**All Plenaries** will take place in Sandia IV/V.

**Closing Plenary Presentations:** All Working Group chairs are required to submit their presentations to the INCOSE Registration Desk by Noon on Tuesday for the closing plenary.

**The Closing Reception** will be in the Sandia Ballroom Foyer.

# TECHNICAL LEADERSHIP

## The Technical Leadership Team

The organization of the Technical Leadership Team (TLT) is based on an identification of functional requirements, those that *Govern* the technical projects and standards, those that *Grow* the technical capabilities and resources of INCOSE, and those that *Share* the technical knowledge and products.

The TLT is chaired by the Technical Director, who sits on the INCOSE Board of Directors. Besides the other members of the TLT shown below, the TLT is comprised of Associate Directors who lead the Enabling and Sector aspects of the Technical Matrix described on the pages following. The Associate Directors are responsible to ensure understanding of the state and progress of the art in their area and to use that to assist in the formation, guidance and nurturing of INCOSE's Working Groups, the main technical engine of the Council, where members can participate in an area of their particular professional interest.

### GOVERN

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# TECHNICAL MATRIX

		Application Sectors							
		Aerospace & Defense	Market Driven Products	Emerging Technologies	Enterprise	Information Systems	Infrastructure	Public Interest	Transportation
SE Enablers	Systems Science								
	SE Technical Process								
	SE Management Process								
	SE Support Process								
	Modeling & Tools								
	Specialty Engineering								

The Technical Matrix is a conceptual construct giving one view of the composition of systems engineering. The Technical Matrix is used to help organize INCOSE's technical efforts and, to some extent, shape the structure of the TLT. The rows of the matrix, Enablers, represent WHAT the practice of systems engineering consists of, while the columns, Sectors, represent WHERE we practice it. So every project, activity or interest, or even a member's experience, can be expressed as a map of intersections on the matrix. This provides an ability to map all our activities in an integrated, easy to understand way.

The Technical Matrix explicitly recognizes that systems engineering has universal applications. This is represented across a broad range of Application Sectors along one axis. Each enabler and each sector has a dedicated member appointed to the position of Assistant Director whose role it is to stay informed with the happenings and direction of their appointed areas of interest. They provide guidance to Working Groups and activities in their areas, and communicate those activities to the broader community in order to help establish and manage a strategic view of INCOSE's technical capabilities and interests.

The rows and columns of the Technical Matrix itself are not necessarily final and we are continuing to evolve and refine the definitions, scope, and terminology used in line with feedback from our members.

The Technical Matrix is meant to be a ubiquitous means of communicating areas of interest. It can be used to identify subject matter of papers and presentations as well as to more easily identify working groups for eager members looking to become involved. For the vast majority of our members, the Technical Matrix should make our technical structure more intuitive, easier to access and easier to engage.

In addition to Sectors and Enablers, there are cross-cutting categories that can apply to any enabler and any sector. Certification, Standards and Education & Research are cross-cutting categories.

A description of the Enablers and Sectors is provided on the following pages.

# TECHNICAL MATRIX

## Brief Description of Rows and Columns

### *Rows (Enablers – what we practice)*

**Systems Science:** The theoretical foundations of systems engineering, including system concepts, systems thinking, complexity theory, system dynamics, agent-based modelling, etc. Shares emerging knowledge for improving the practice of systems engineering; and principles and guidelines for better analysis, execution of programs, uncertainty management (opportunity as well as risk), tool selection, development of systems engineering processes, etc. The Assistant Director for Systems Science is Brian White. You can contact Brian at [brian.white@incose.org](mailto:brian.white@incose.org).

**SE Technical Processes:** The processes constituting the core of systems engineering, providing practical and efficient ways of handling the complexity of the engineering activities throughout the lifecycle of systems, from user requirements elicitation to system retirement. The Assistant Director for SE Technical Processes is Regina Griego. You can contact Regina at [regina.greigo@incose.org](mailto:regina.greigo@incose.org).

**SE Management Processes:** The processes required to ensure the timely and appropriate application of the technical processes, such as configuration management, review processes, risk management, and planning. Some of these processes are variations of normal project management processes, adapted to the complex environment of systems engineering. The Assistant Director for SE Management Processes is Mark Powell. You can contact Mark at [mark.powell@incose.org](mailto:mark.powell@incose.org).

**SE Support Processes:** Processes not directly involved in developing a system, but important to the development of systems engineering itself, such as process measurement, evaluation, and improvement. Also, the documentation of this development in handbooks and guides. The Assistant Director for SE Support Processes is Jerry Fisher. You can contact Jerry at [gerard.fisher@incose.org](mailto:gerard.fisher@incose.org).

**Modeling and Tools:** Models, software-based tools, and the databases required to operate them are indispensable to the cost-effective execution of the technical, management, and support processes. Their development, documentation, and interoperability, as well as the training required to use them effectively, are included here. The Assistant Director for Modeling and Tools is Mark Sampson. You can contact Mark at [mark.sampson@incose.org](mailto:mark.sampson@incose.org).

**Specialty Engineering:** Theories, processes, and procedures that focus on aspects of systems essential to achieving an effective product life cycle, such as reliability, availability, maintainability, supportability, constructability, environmental compatibility, human factors, safety, security, and life cycle costing and economic evaluation. The Assistant Director for Specialty Engineering is Ray Hettwer. You can contact Ray at [ray.hettwer@incose.org](mailto:ray.hettwer@incose.org).

# TECHNICAL MATRIX

## *Columns (Application Sectors – where we practice)*

**Aerospace and Defence:** An industry sector comprising civil and military aircraft and space systems, weapons systems, naval platforms, military C4ISR and ground equipment and systems. The assistant director for Aerospace and Defense is Marton Forkosh. You can contact Marton at [marton.forkosh@incose.org](mailto:marton.forkosh@incose.org).

**Market Driven Products:** A wide industry sector comprising those industries and service organizations that do not have a readily identifiable customer. Top level requirements are derived from Voice of the Customer data and emerging/disruptive technologies. It is focused on the product and services – marketing, development, production and distribution. The assistant director for Market-Driven Sector is Jack Riley. You can contact Jack at [jack.riley@incose.org](mailto:jack.riley@incose.org).

**Emerging Technologies:** A collection of technologies in their early development stages where systems engineering will enable their transition and insertion into current and future systems to enhance capabilities and/or provide new functionality. The assistant director for Emerging Technologies is Ayman El-Fataty. You can contact Ayman at [ayman.elfataty@incose.org](mailto:ayman.elfataty@incose.org).

**Enterprise:** The application of systems engineering to the understanding, development, or optimisation of an enterprise; that is, to two or more people applying resources through actions to achieve mutual purpose. This includes intelligent enterprises, business systems, and systems of systems. The assistant director for Enterprise is Doug Norman. You can contact Doug at [douglas.norman@incose.org](mailto:douglas.norman@incose.org).

**Information Systems:** The application of systems engineering to the acquisition, processing, management, storage, and retrieval of data, information, and knowledge. This includes data mining, knowledge management, intelligence assessment, and all types of business data management. The assistant director for Information Systems is Hans Haddingh. You can contact Hans at [hans.haddingh@incose.org](mailto:hans.haddingh@incose.org).

**Infrastructure:** An industry sector that includes the construction industry (as builders) and the utilities – power, gas, oil, water, waste, roads, and telecommunications – (as operators). It also includes manufacturing technologies as the infrastructure underpinning the manufacturing industry. The assistant director for Infrastructure is Alain Kouassi. You can contact Alain at [alain.kouassi@incose.org](mailto:alain.kouassi@incose.org).

**Public Interest:** The application of systems engineering to issues of major concern to society in general, such as natural and human-made disasters, anti-terrorism, environmental sustainability, and healthcare, where systems engineering is used as a methodology for understanding the complexity of the issue and develop conceptual approaches and solutions. This sector seeks to collaborate with organizations involved in these issues. The assistant director for Public Interest is Scott Jackson. You can contact Scott at [scott.jackson@incose.org](mailto:scott.jackson@incose.org).

**Transportation:** The application of systems engineering to the development and design of transportation equipment (cars, buses, rail carriages and locomotives, ships, etc.), the systems required to operate this equipment, and the systems which interface with it. This includes intelligent transportation systems and intermodal transport. The assistant director for Transportation is Ashok Jain. You can contact Ashok at [ashok.jain@incose.org](mailto:ashok.jain@incose.org).

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open / Closed
Aerospace & Defence Sector - Paul Robitaille/ Samantha Brown	This meeting has been called to establish a new working group to address SE topics of international interest in the Aerospace & Defence Sector. We will focus on identifying Working Group scope, operating norms, topics of interest, and drafting a charter. Attendance is open to academia, government and industry with an interest in this sector.	Sandia IV/V	29 Tuesday	8:00 AM	10:00 AM	Open
Ambassadors - TS Yeo	Update the activities of the ambassadors	#233	26 Saturday	10:00 AM	11:00 AM	Open
Anti-Terrorism International Working Group (ATIWG) - Bill Mackey	This meeting is required to prepare for the Symposium 2008 Panel and Working Group activities. We will also be evaluating the calendar year activities for the ATIWG.	Sandia VII	29 Tuesday	9:00 AM	3:00 PM	Open
Architecture - Charles Dickerson	Architecture Workshop	Sandia III	24 Thursday	8:00 AM	5:00 PM	Open
		Sandia III	25 Friday	8:00 AM	5:00 PM	Open
	A review of the recent activities of the AWG to include an initial report on the Special Architecture Workshop and an update on support of the Communications Working Group.	Agave	28 Monday	8:00 AM	10:00 AM	Closed
Biomedical (a potential working group) - Mike Celentano	System Engineers working in Medical Diagnostics, Medical Products, and other Biomedical fields are using processes heavily influenced by regulators such as FDA, MDD, and IVD. Therefore, some best System Engineering practices that work well for DOD, Aerospace, and Consumer industries may not be relevant for Biomedical System Engineers. The goal of this meeting is to measure the interest for a new working group focused on unique Biomedical System Engineering best practices and to discuss the potential mission and charter. If interested, please come for at least some of the meeting to make your interest known.	Sandia II	28 Monday	2:00 PM	5:00 PM	Open
Board of Directors - Pat Hale	Board Meeting	Ocotillo II	27 Sunday	1:00 PM	5:00 PM	Closed
		Ocotillo II	30 Wednesday	8:00 AM	12:00 PM	Closed
CAR Refresher Training - Dave Walden	This is refresher training for existing Certification Application Reviewers (CARs). Time will also be available for sharing of CAR lesson's learned.	#210	29 Tuesday	1:00 PM	3:00 PM	Closed

# MEETINGS BY GROUP

Meeting – Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open/Closed
CAR Training (New) – Dave Walden	This is a training session for new Certification Application Reviewers (CARs).	#210	28 Monday	10:00 AM	12:00 PM	Closed
Certification Advisory Group (CAG) – Dave Walden	Meeting of the CAG to discuss certification-related issues.	#210	27 Sunday	8:00 AM	5:00 PM	Closed
	CSEP Reception: This is the first-ever reception for INCOSE's CSEPs. If you are a CSEP, you are invited to attend this reception before you head out for dinner on Sunday.	TBD	27 Sunday	5:00 PM	7:00 PM	Closed
	Meeting of the CAG to discuss certification-related issues.	#210	28 Monday	8:00 AM	10:00 AM	Closed
		#210	29 Tuesday	8:00 AM	12:00 PM	Closed
Certification Beta Test – Dave Walden	This is a beta test for the updated certification examination.	La Ventana	30 Wednesday	8:00 AM	5:00 PM	Closed
Closing Plenary	Tuesday Closing Wrap Up. Presentations due at Registration Desk by Noon on Tuesday.	Sandia IV/V	29 Tuesday	3:00 PM	5:00 PM	Open
Closing Reception		Foyer Sandia IV/V	29 Tuesday	5:00 PM	6:30 PM	Open
Commercial Steering Board (CSB) – Henk van der Linden	CSB Meeting	Ocotillo II	26 Saturday	1:00 PM	6:00 PM	Closed
		Ocotillo II	27 Sunday	8:00 AM	9:00 AM	Closed
	Coordination Meeting of CSB and TLT	Sierra II	27 Sunday	9:00 AM	11:00 AM	Closed
	Meeting of Commercial Steering Board with Working Group Chairs; with TLT	Ocotillo II	29 Tuesday	8:00 AM	10:00 AM	Closed
		Ocotillo II	29 Tuesday	10:00 AM	12:00 AM	Closed
Communications Committee – Christian Tulodieski	Website Improvements: Planning Teamcenter and Discussion Forum upgrades	Sandia VII	28 Monday	2:00 PM	4:00 PM	Open
Corporate Advisory Board (CAB) Joint Leadership Meeting – Ayman El-Fatary	CAB, BOD, Chapters, Member Board, TLT, Outreach, Comms, Marketing, Certification	Sandia IV/V	26 Saturday	8:00 AM	10:00 AM	Closed

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open/ Closed
Corporate Advisory Board (CAB) - <i>Ayman El-Fatraty</i>	CAB Plenary	Sandia IV/V	26 Saturday	10:30 AM	12:00 PM	Closed
	CAB Focus Group 1 – Profession	#209	26 Saturday	1:00 PM	3:00 PM	Closed
	CAB Focus Group 2 – State-of-Art	#210	26 Saturday	1:00 PM	3:00 PM	Closed
	CAB Focus Group 3 – Standards	#233	26 Saturday	1:00 PM	3:00 PM	Closed
	CAB Focus Group 4 – Communication	#231	26 Saturday	1:00 PM	3:00 PM	Closed
	CAB Focus Group 5 – Return-on- Investment	#234	26 Saturday	1:00 PM	3:00 PM	Closed
	CAB Plenary Reconvene	Sandia IV/V	26 Saturday	3:00 PM	5:00 PM	Closed
	CAB Leaders	#209	27 Sunday	8:00 AM	11:00 AM	Closed
Corporate Advisory Board (CAB) Dinner - <i>Ayman El-Fatraty</i>	CAB, BOD, CSB Dinner – INVITATION ONLY	Vernon's	26 Saturday	7:00 PM	9:00 PM	Closed
Cost Engineering - <i>Ed Casey</i>	Meeting of CE Working Group	Sandia VI	27 Sunday	1:00 PM	4:00 PM	Open
		Sandia VI	28 Monday	1:00 PM	4:00 PM	Open
Education and Research TC (ERTC) - <i>Tim Ferris</i>	To discuss achievements of 2007 and to make plans for 2008. Issues to be discussed relate to education in US and elsewhere, and research to support the growth of SE.	Sierra I	28 Monday	8:00 AM	5:00 PM	Open
		Sierra II	29 Tuesday	8:00 AM	11:00 AM	Open
Events Committee - <i>Alain Faisandier</i>	This meeting is reserved to the Events Committee members, to the current and future Symposia Host Committees members, and to the other INCOSE Committees representatives involved in the analysis and decision of Events/ Symposia preparation and operation. The purpose is to collect and analyze data from Host Committees in order to monitor the INCOSE Events in accordance with the INCOSE strategy. The participants are sharing understanding and experiences from each others in order to improve the management of INCOSE Events and Conferences.	Sandia III	28 Monday	1:00 PM	5:00 PM	Closed

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open / Closed
GEOSS Architecture Working Group - Lawrence McGovern	Discuss current status of GEOSS Architecture Project. Describe future work and need for support	Pinon	26 Saturday	9:00 AM	11:00 AM	Open
History Team - Jerry Lake	The History Team consists of former NCOSE/INCOSE presidents and officers tasked with documenting the first 15 years of INCOSE history. The IW meeting will be used to assess progress and evaluate the next steps needed to complete the task started in 2005	#228	27 Sunday	2:00 PM	4:00 PM	Closed
		#228	28 Monday	10:00 AM	4:00 PM	Closed
Human Systems Integration Working Group - Steven Deal	Human Systems Integration presentations, discussions and work on projects	La Ventana	26 Saturday	8:00 AM	5:00 PM	Open
		La Ventana	27 Sunday	8:00 AM	5:00 PM	Open
		La Ventana	28 Monday	8:00 AM	5:00 PM	Open
		La Ventana	29 Tuesday	8:00 AM	12:30 PM	Open
INCOSE Connect - Jim Chism	INCOSE Connect administrator training	Sandia VII	28 Monday	10:00 AM	11:00 AM	Open
	INCOSE Connect user training	Sandia VII	28 Monday	4:00 PM	5:00 PM	Open
INCOSE Fellows - Bill Mackey	The morning activities will be limited to the Fellows Selection Committee. The afternoon will be dedicated to the Fellows Business Meeting.	Ocotillo II	28 Monday	8:00 AM	5:00 PM	Closed
Information Systems Working Group (ISWG) - Adrian Boyer	ISWG Business & Status Meeting. Open to all.	#234	28 Monday	2:00 PM	4:00 PM	Open
Infrastructure - Alain Kouassi	Roundtable on Systems Engineering Practices in the Energy Sector	#234	28 Monday	10:00 AM	12:00 PM	Open
	Working Group Strategy Meeting	#234	29 Tuesday	10:00 AM	11:30 AM	Open
Intelligent Transportation & Transit Working Group - Michael Krueger	The ITTSWG will be holding working group meetings to address key SE challenges and tailoring in the rail/transit sector and to prepare for the IS2008. Anyone interested in ground transportation and Rail/Transit systems, please join us.	#231	27 Sunday	8:00 AM	5:00 PM	Open
		#231	28 Monday	8:00 AM	5:00 PM	Open
		#231	29 Tuesday	8:00 AM	3:00 PM	Open

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open / Closed
International Outreach / CSB - Henk van der Linden	China Workshop (12p)	#233	28 Monday	8:00 AM	10:00 AM	Open
	CSB	#233	28 Monday	10:00 AM	12:00 PM	Open
	Russia Workshop (12p)	#233	28 Monday	1:00 PM	3:00 PM	Open
	Brazil Workshop (12p)	#233	28 Monday	3:00 PM	5:00 PM	Open
IPAL Way Forward - Samantha Brown	Meeting to consider how to best achieve the IPAL aims - making SE assets available to INCOSE members. The meeting will consider what needs to be achieved and propose a way forward. Attendees with experience of knowledge sharing tools & those who may be able to participate in implementation are especially welcome.	Sierra II	28 Monday	8:00 AM	12:00 PM	Open
IS2008 Host Committee - Paul Schreinemakers	IS2008 Host committee preparation meeting	Sandia III	26 Saturday	10:00 AM	12:00 PM	Closed
		Sandia III	27 Sunday	8:00 AM	11:00 AM	Closed
		Sandia III	28 Monday	8:00 AM	12:00 PM	Closed
IS2008 Marketing Group - Paul Schreinemakers	IS2008 Host committee marketing meeting	#228	26 Saturday	1:00 PM	5:00 PM	Closed
IS2008 Technical Group - Paul Schreinemakers	IS2008 Host committee technical group meeting	Sandia III	26 Saturday	1:00 PM	5:00 PM	Closed
IS2009 Host Committee - Weng Wah Siak	Planning for the IS2009 event (10p)	Sage	27 Sunday	9:00 AM	11:00 AM	Closed
		Sage	28 Monday	8:00 AM	12:00 PM	Closed
Latin America Initiative Dinner - Regina Griego	Optional Event at the Hispanic Cultural Center	Hispanic Cultural Center	25 Friday	6:00 PM	10:00 PM	Open

# MEETINGS BY GROUP

Meeting – Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open / Closed
Lean Systems Engineering Working Group – Deborah Secor	Draft Charter: It is our goal to strengthen the practice of Systems Engineering (SE) by exploring and capturing the synergy between traditional SE and Lean. To do this, we will apply the wisdom of Lean Thinking into SE practices integrating people, processes, and tools for the most effective delivery of value to program stakeholders; formulate the Body of Knowledge of Lean SE; propose amendments to the INCOSE SE Handbook with critical elements of Lean SE; and develop and disseminate training materials and publications on Lean SE within the INCOSE community, industry, and academia.	Sandia IV/V	27 Sunday	1:00 PM	5:00 PM	Open
		Sandia IV/V	28 Monday	8:00 AM	5:00 PM	Open
Market Driven Products Sector – Donald Sanders	Discuss ongoing planning for the MDP group and Product creation	#229	27 Sunday	1:00 PM	2:00 PM	Open
		#229	28 Monday	10:00 AM	11:00 AM	Open
Marketing – Christian Tulodieski		Sandia II	29 Tuesday	8:00 AM	12:00 PM	Open
MBSE Workshop – Regina Griego	MBSE Roadmap implementation planning	Sierra I/II	24 Thursday	8:00 AM	5:00 PM	Open
	MBSE Challenge Team reviews	Sierra I/II	25 Friday	8:00 AM	5:00 PM	Open
MDS – Philip Spiby	MBSE update and feedback	Pinon	26 Saturday	1:00 PM	5:00 PM	Open
	Working Group Plenary including future direction discussions	Pinon	27 Sunday	8:30 AM	11:00 AM	Open
	SysML update and future strategy	Pinon	27 Sunday	2:00 PM	5:00 PM	Open
	AP233 Ballot Review workshow	Pinon	28 Monday	8:30 AM	5:00 PM	Open
	AP233 Ballot Review workshow	Pinon	29 Tuesday	8:30 AM	3:00 PM	Open
Measurement – Ricardo Valerdi	Handover meeting to new leadership	#229	27 Sunday	10:00 AM	11:00 AM	Closed
Member Board – Jim Armstrong	MB meeting	Sandia VII	26 Saturday	10:30 AM	5:00 PM	Closed
	Member Board and Chapters meeting	Sandia VII	27 Sunday	8:00 AM	11:00 AM	Closed
Member Board Circle Award Selection Team – Philip Simpkins	Team will review the Circle Awards that were submitted.	Sandia VIII	26 Saturday	8:30 AM	5:00 PM	Closed
		Sandia VIII	27 Sunday	8:00 AM	2:00 PM	Closed

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open/ Closed
Motor Sports Working Group (MSWG) - <i>Bill Mackey</i>	This will be the initial meeting of the MSWG. The Charter will be presented. An Outline for the first Working Group product will be presented. Activities of Stan Settles at Bonneville Salt Flats and possibly Sam Harbaugh in the driverless vehicle will be presented. Plans for the calendar year for the MSWG will be discussed.	Sandia II	26 Saturday	8:30 AM	5:00 PM	Open
		Sandia II	27 Sunday	9:00 AM	5:00 PM	Open
Opening Plenary	Opening Plenary. Installation of Officers.	Sanda IV/V	27 Sunday	11:00 AM	12:00 PM	Open
Process Improvement - <i>Karen Bausman</i>	To discuss the sponsor of SE Process Improvement Initiatives.	Sandia VI	28 Monday	8:00 AM	12:00 PM	Open
		Sandia VI	29 Tuesday	8:00 AM	12:00 PM	Open
Region V Chapters - <i>Phil Simpkins</i>	Planning for the IS2009 event	Sandia VII	27 Sunday	1:00 PM	4:00 PM	Closed
Region VI Chapters - <i>Hornng Leong Lim</i>	Meeting with Region VI Chapter Presidents	#234	27 Sunday	2:00 PM	5:00 PM	Closed
REP/EEP Kickoff Meeting - <i>Dave Walden</i>	This is the kickoff meeting for the INCOSE Registered Education Provider (REP) and Endorsed Educational Product (EEP) team. People wanting to shape this effort or review products and organizations considering becoming registered should attend.	Sierra II	28 Monday	2:00 PM	5:00 PM	Open
Requirements Working Group (RWG) - <i>Lily Birmingham</i>	<ul style="list-style-type: none"> <li>Sunday 2PM review of agenda</li> <li>prepare work for Monday - select practices - designate groups</li> <li>review REGAL good practices (2 hours)</li> </ul>	Sandia VIII	27 Sunday	2:00 PM	5:00 PM	Open
	<ul style="list-style-type: none"> <li>Monday progress report</li> <li>report on ISO support activities</li> <li>review REGAL good practices (2 hours)</li> <li>RAFT (2 hours)</li> <li>Guide to writing requirements (2 hours)</li> </ul>	Sandia VIII	28 Monday	8:00 AM	5:00 PM	Open
	<ul style="list-style-type: none"> <li>Tuesday 8 AM - 10 AM telecon purpose: allow people to participate, give them a sense of what is happening at meeting</li> <li>presentation of support to CAB/BoD</li> <li>Tuesday afternoon Working Group leaders forum</li> <li>ISO working group paper review</li> </ul>	Sandia VIII	29 Tuesday	8:00 AM	3:00 PM	Open
Resilient Systems Working Group (RSWG) - <i>Scott Jackson</i>	Discuss summary and definition of resilience and similarities and differences with accident avoidance and mission assurance. Discuss current and on-going products.	Sandia III	27 Sunday	2:00 PM	5:00 PM	Open

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open/ Closed
Risk Management - Jack Stein	Risk Management Working Group (RMWG) General Meeting	Ocotillo I	27 Sunday	2:00 PM	3:00 PM	Open
		Ocotillo I	28 Monday	1:00 PM	3:00 PM	Open
		Ocotillo I	29 Tuesday	10:00 AM	11:00 AM	Open
SE Handbook Tutorial - Kevin Forsberg	Overview of SE Handbook vs. 3.1 preparation for Beta Certification Test - Optional Cost	Sandia VI	25 Friday	8:00 AM	5:00 PM	Open
		Sandia VI	26 Saturday	8:00 AM	5:00 PM	Open
SE-ROI - Eric Honour	Discussion and presentations on known research into the ROI of systems engineering	#210	28 Monday	1:00 PM	4:00 PM	Open
Space Systems - Chris Delp	MGC Team effort	Sage	23 Wednesday	8:30 AM	4:00 PM	Open
		Agave	24 Thursday	9:00 AM	5:00 PM	Open
		Sandia I	26 Saturday	9:00 AM	5:00 PM	Open
Space Systems - Dennis Rohn	The SSWG will meet to make progress on its four current projects. Sunday - MBSE Grand Challenge project, Monday - General meeting, panel proposal update, magazine articles discussion, and gap analysis project. New participants are always welcome.	#209	27 Sunday	1:00 PM	5:00 PM	Open
		#209	28 Monday	8:00 AM	5:00 PM	Open
Standards - Randy Case	To discuss the current state of standards and feedback from the architecture forum.	Sandia I	27 Sunday	9:00 AM	4:00 PM	Open
		Sandia I	28 Monday	9:00 AM	4:00 PM	Open
		Sandia I	29 Tuesday	9:00 AM	3:00 PM	Open
System Safety Integration Working Group - Mark Carlson	System Safety Integration Working Group	Sage	25 Friday	9:00 AM	12:00 PM	Open
		Sage	26 Saturday	9:00 AM	12:00 PM	Open
System Science Enabler Group - Sarah Sheard	Goals and objectives, review of current material, next steps	Sierra I	27 Sunday	1:00 PM	5:00 PM	Open
		Sierra I	29 Tuesday	8:30 AM	3:00 PM	Open

# MEETINGS BY GROUP

Meeting - Contact	Meeting Description	Room	Meeting Day(s)	Start Time	End Time	Open / Closed
Systems Security Engineering - <i>John Wirsbinski</i>	A draft manifesto boldly declaring a new depth of systems engineering responsibility for system security, and calling for a new order of security thought, will be reviewed and refined in working session. Based on the outline created at IW07, the manifesto proposes eight points for development focus. These points will be topics of individual break-out working sessions, developing preliminary scope and definition for full brief-out review. Working Group product development planning will begin, open for suggestion, proposal, scheduling and commitment for mid-year and IW09 deliverables. Additional topics by discussion leaders requesting agenda time in advance of the meeting will be scheduled as time permits. Time and topic schedules for days 2 and 3 will be determined on day 1 to accommodate members with multi working group interests.	Agave	26 Saturday	10:00 AM	5:00 PM	Open
		Agave	27 Sunday	10:00 AM	5:00 PM	Open
		Agave	28 Monday	10:00 AM	5:00 PM	Open
Technical Leadership Team - <i>Samantha Brown</i>	Regular working meetings of the TL	Sierra II	26 Saturday	10:30 AM	5:00 PM	Closed
		Sierra II	27 Sunday	8:00 AM	9:00 AM	Closed
		Sierra II	29 Tuesday	11:00 AM	12:00 PM	Closed
TLT / BOD / COMM Outreach Dinner - <i>Samantha Brown</i>	Outside Event at Savoy	Savoy	27 Sunday	7:00 PM	9:00 PM	Closed
TLT / CSB Joint Meeting - <i>Samantha Brown</i>	Coordination Meeting of CSB and TLT	Sierra II	27 Sunday	9:00 AM	11:00 AM	Closed
TLT / IS2008 Program Formulation - <i>Samantha Brown</i>	Meeting between IS08 Committee and TLT members to establish technical program for IS08.	Sierra II	27 Sunday	1:00 PM	5:00 PM	Closed
Tool Integration & Interoperability Working Group - <i>John Nallon</i>	"Vitalizing" Vendors to certify their product to AP233	#229	28 Monday	2:00 PM	5:00 PM	Open
UAV T&E Working Group - <i>Ricardo Valerdi</i>	Discussion on UAV Test & Evaluation work within INCOSE.	Sage	26 Saturday	1:00 PM	5:00 PM	Closed
Verification and Validation - <i>Ben Mancuso</i>	The Verification and Validation Working Group will meet to discuss ways to become more productive. This meeting will review how to move ahead as a Working Group, set priorities, set goals and objectives.	Ocotillo I	28 Monday	9:00 AM	12:00 PM	Closed



# MEETINGS BY DAY

Meeting	Room	Start Time	End Time	Open/Closed
<b>23 WEDNESDAY</b>				
Space System	Sage	8:30 AM	4:00 PM	Open
<b>24 THURSDAY</b>				
Architecture Workshop	Sandia III	8:00 AM	05:00 PM	Open
MBSE Workshop	Sierra I / II	8:00 AM	05:00 PM	Open
Space Systems	Agave	9:00 AM	5:00 PM	Open
<b>25 FRIDAY</b>				
Architecture Workshop	Sandia III	8:00 AM	5:00 PM	Open
Latin America Initiative Dinner	Hispanic Cultural Center	6:00 PM	10:00 PM	Open
MBSE Workshop	Sierra I/II	8:00 AM	5:00 PM	Open
SE Handbook Tutorial	Sandia VI	8:00 AM	5:00 PM	Open
System Safety Integration	Sage	9:00 AM	12:00 PM	Open
<b>26 SATURDAY</b>				
Ambassadors	#233	10:00 AM	11:00 AM	Open
CAB Joint Leadership Mtg	Sandia IV / V	8:00 AM	10:00 AM	Closed
CAB Plenary	Sandia IV/V	10:30 AM	12:00 PM	Closed
CAB Focus Group 1 - Profession	#209	1:00 PM	3:00 PM	Closed
CAB Focus Group 2 - State-of-Art	#210	1:00 PM	3:00 PM	Closed
CAB Focus Group 3 - Standards	#233	1:00 PM	3:00 PM	Closed
CAB Focus Group 4 - Communication	#231	1:00 PM	3:00 PM	Closed
CAB Focus Group 5 - Return-on-Investment	#234	1:00 PM	3:00 PM	Closed
CAB Reconvene	Sandia IV/V	3:00 PM	5:00 PM	Closed
CAB Dinner	Vernon's	7:00 PM	9:00 PM	Closed

Meeting	Room	Start Time	End Time	Open/Closed
CSB	Ocotillo II	1:00 PM	5:00 PM	Closed
GEOSS Architecture WG	Pinon	9:00 AM	11:00 AM	Open
Human Systems Integration	La Ventana	8:00 AM	5:00 PM	Open
IS2008 Host Committee	Sandia III	10:00 AM	12:00 PM	Closed
IS2008 Marketing Group	#228	1:00 PM	5:00 PM	Closed
IS2008 Technical Group	Sandia III	1:00 PM	5:00 PM	Closed
MDSO	Pinon	1:00 PM	5:00 PM	Open
Member Board	Sandia VII	10:30 AM	5:00 PM	Closed
Member Board Circle Award Selection Team	Sandia VIII	8:30 AM	5:00 PM	Closed
Motor Sports Working Group (MSWG)	Sandia II	8:30 AM	5:00 PM	Open
SE Handbook Tutorial	Sandia VI	8:00 AM	5:00 PM	Open
Space Systems	Sandia I	9:00 AM	5:00 PM	Open
System Safety Integration	Sage	9:00 AM	12:00 PM	Open
Systems Security Engineering	Agave	10:00 AM	5:00 PM	Open
TLT	Sierra II	10:30 AM	5:00 PM	Closed
UAV T&E WG	Sage	1:00 PM	5:00 PM	Closed
<b>27 SUNDAY</b>				
Board of Directors	Ocotillo II	1:00 PM	5:00 PM	Closed
CAB Leaders	#209	8:00 AM	11:00 AM	Closed
CAG	#210	8:00 AM	5:00 PM	Closed
CSB	Ocotillo II	8:00 AM	9:00 AM	Closed
Cost Engineering	Sandia VI	1:00 PM	4:00 PM	Open

# MEETINGS BY DAY

Meeting	Room	Start Time	End Time	Open/Closed
CSEP Reception	TBD	5:00 PM	7:00 PM	Closed
History Team	#228	2:00 PM	4:00 PM	Closed
Human Systems Integration	La Ventana	8:00 AM	5:00 PM	Open
Intelligent Transportation & Transit WG	#231	8:00 AM	5:00 PM	Open
IS2008 Host Committee	Sandia III	8:00 AM	11:00 AM	Closed
IS2009 Host Committee	Sage	9:00 AM	11:00 AM	Closed
Lean Systems Engineering WG	Sandia IV/V	1:00 PM	5:00 PM	Open
Market-Driven Products	#229	1:00 PM	2:00 PM	Open
Measurement	#229	10:00 AM	11:00 AM	Closed
MDSO	Pinon	8:30 AM	5:00 PM	Open
Member Board & Chapters	Sandia VII	8:00 AM	11:00 AM	Closed
Member Board Circle Award Selection Team	Sandia VIII	8:00 AM	2:00 PM	Closed
Motor Sports Working Group (MSWG)	Sandia II	9:00 AM	5:00 PM	Open
Opening Plenary	Sandia IV/V	11:00 AM	12:00 PM	Open
Region V Chapters	Sandia VII	1:00 PM	4:00 PM	Closed
Region VI Chapters	#234	2:00 PM	5:00 PM	Closed
Requirements WG	Sandia VIII	2:00 PM	5:00 PM	Open
Resilient Systems WG	Sandia III	2:00 PM	5:00 PM	Open
Risk Management	Ocotillo I	2:00 PM	3:00 PM	Open
Space Systems	#209	1:00 PM	5:00 PM	Open
Standards	Sandia I	9:00 AM	4:00 PM	Open

Meeting	Room	Start Time	End Time	Open/Closed
System Science Enabler Group	Sierra I	1:00 PM	5:00 PM	Open
Systems Security Engineering	Agave	10:00 AM	5:00 PM	Open
TLT	Sierra II	8:00 AM	9:00 AM	Closed
TLT / BOD / COMM Outreach Dinner	Savoy	7:00 PM	9:00 PM	Closed
TLT / CSB Joint Meeting	Sierra II	9:00 AM	11:00 AM	Closed
TLT / IS2008 Program Formulation	Sierra II	1:00 PM	5:00 PM	Closed
<b>28 MONDAY</b>				
Architecture WG	Agave	8:00 AM	10:00 AM	Closed
Biomedical	Sandia II	2:00 PM	5:00 PM	Open
CAR Training (New)	#210	10:00 AM	12:00 PM	Closed
CAG	#210	8:00 AM	10:00 AM	Closed
Communications Committee	Sandia VII	2:00 PM	4:00 PM	Open
Cost Engineering	Sandia VI	1:00 PM	4:00 PM	Open
Education and Research	Sierra I	8:00 AM	5:00 PM	Open
Events Committee	Sandia III	1:00 PM	5:00 PM	Closed
History Team	#228	10:00 AM	4:00 PM	Closed
Human Systems Integration WG	La Ventana	8:00 AM	5:00 PM	Open
INCOSE Connect	Sandia VII	10:00 AM	11:00 AM	Open
INCOSE Connect	Sandia VII	4:00 PM	5:00 PM	Open
INCOSE Fellows	Ocotillo II	8:00 AM	5:00 PM	Closed
Information Systems WG	#234	2:00 PM	4:00 PM	Open
Infrastructure	#234	10:00 AM	12:00 PM	Open

# MEETINGS BY DAY

Meeting	Room	Start Time	End Time	Open/Closed
Intelligent Transportation & Transit WG	#231	8:00 AM	5:00 PM	Open
International Outreach	#233	8:00 AM	5:00 PM	Open
IPAL Way Forward	Sierra II	8:00 AM	12:00 PM	Open
IS2008 Host Committee	Sandia III	8:00 AM	12:00 PM	Closed
IS2009 Host Committee	Sage	8:00 AM	12:00 PM	Closed
Lean Systems Engineering WG	Sandia IV/V	8:00 AM	5:00 PM	Open
Market-Driven Products	#229	10:00 AM	11:00 AM	Open
MDSO	Pinon	8:30 AM	5:00 PM	Open
Process Improvement	Sandia VI	8:00 AM	12:00 PM	Open
REP/EEP Kickoff Meeting	Sierra II	2:00 PM	5:00 PM	Open
Requirements WG	Sandia VIII	8:00 AM	5:00 PM	Open
Risk Management	Ocotillo I	1:00 PM	3:00 PM	Open
SE-ROI	#210	1:00 PM	4:00 PM	Open
Space Systems	#209	8:00 AM	5:00 PM	Open
Standards	Sandia I	9:00 AM	4:00 PM	Open
Systems Security Engineering	Agave	10:00 AM	5:00 PM	Open
Tool Integration & Interoperability WG	#229	2:00 PM	5:00 PM	Open
Verification and Validation	Ocotillo I	9:00 AM	12:00 PM	Closed
<b>29 TUESDAY</b>				
Aerospace & Defence Sector	Sandia IV/V	8:00 AM	10:00 AM	Open
Anti-Terrorism International WG	Sandia VII	9:00 AM	3:00 PM	Open
CAR Refresher Training	#210	1:00 PM	3:00 PM	Closed

Meeting	Room	Start Time	End Time	Open/Closed
CAG	#210	8:00 AM	12:00 PM	Closed
Closing Plenary	Sandia IV/V	3:00 PM	5:00 PM	Open
Closing Reception	Foyer Sandia IV/V	5:00 PM	6:30 PM	Open
CSB / WG Leaders	Ocotillo II	8:00 AM	10:00 AM	Closed
CSB	Ocotillo II	10:00 AM	12:00 PM	Closed
Education and Research	Sierra II	8:00 AM	11:00 AM	Open
Human Systems Integration WG	La Ventana	8:00 AM	12:30 PM	Open
Infrastructure	#234	10:00 AM	11:30 AM	Open
Intelligent Transportation & Transit WG	#231	8:00 AM	3:00 PM	Open
Marketing	Sandia II	8:00 AM	12:00 PM	Open
MDSO	Pinon	8:30 AM	3:00 PM	Open
Process Improvement	Sandia VI	8:00 AM	12:00 PM	Open
Requirements WG	Sandia VIII	8:00 AM	3:00 PM	Open
Risk Management	Ocotillo I	10:00 AM	11:00 AM	Open
Standards	Sandia I	9:00 AM	3:00 PM	Open
System Science Enabler Group	Sierra I	8:30 AM	3:00 PM	Open
TLT	Sierra II	11:00 AM	12:00 PM	Closed
Ways and Means	Agave	8:00 AM	12:00 PM	Closed
Working Group Leadership Forum	Ocotillo II	1:00 PM	3:00 PM	Open
<b>30 WEDNESDAY</b>				
Board of Directors	Ocotillo II	8:00 AM	12:00 PM	Closed
Certification Beta Test	La Ventana	8:00 AM	5:00 PM	Closed

# Meeting Facilities Map



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