



IW2016 Out-brief

Torrance, Ca

January 30 – February 2, 2016

This presentation is based on information gathered during attendance at IW2016, and is not a product of official duties.

	Start	End		BoD	CAB	Awards Comm's	TechOps Leadership	Working Groups	Sector / Chapter Leaders	Industry Outreach	Events Comm	IS2016 Technical Planning	Ways & Means	Certification	Fellows	Academic Council	INCOSE Foundation			
Friday	07:00	08:00	Registration	BOD Strategy Session																
	08:00	09:00																		
	09:00	10:00																		
	10:00	11:00																		
	11:00	12:00																		
	12:00	13:00																		
	13:00	14:00																		
	14:00	15:00																		
	15:00	16:00																		
16:00	17:00																			
Saturday	07:00	08:00	Registration	Cyber cafe				Systems Science Roundtable												
	08:00	09:00			Opening Plenary															
	09:00	10:00			Break															
	10:00	10:30																		
	10:30	11:00																		
	11:00	12:00				CAB Mtg	Chapter Awards Program	TechOps AD meeting	WGs Mtg	Sector Director & Chapter Leaders mtg (3 mtgs respectively)							CAG Mtg			
	12:00	13:00			Lunch			TechOps AD & WG Leadership Lunch	Lunch											
	13:00	14:00				CAB Mtg	Chapter Awards Program		WGs Mtg				Events Comm Mtg				CAG Mtg			
	14:00	15:00																		
	15:00	15:30			Break															
	15:30	16:00				CAB Mtg	Chapter Awards Program		WGs Mtg				Events Comm Mtg				CAG Mtg			
	16:00	17:00																		
	17:00	18:00																		
	18:00	19:00																		
19:00	21:00	INCOSE Foundation Wine Soirée sponsored by the Corporate Advisory Board																		
Sunday	07:00	08:00	Registration	Cyber cafe				Systems Science Roundtable												
	08:00	09:00			Town Hall: BKCASE Project update															
	09:00	10:00				CAB Leadership meeting	Chapter Awards Program		WGs Mtg	Chapter and Member Shared Services Committee (CAMMS)	Industry Outreach Board (IOB) Mtg		IS2016 Papers, Panels & Tutorials Selection			CAG Mtg				
	10:00	10:30			Break															
	10:30	11:00				CAB Leadership meeting	Chapter Awards Program		WGs Mtg	Chapter and Member Shared Services Committee (CAMMS)			IS2016 Papers, Panels & Tutorials Selection			CAG Mtg	Fellows Selection Committee			
	11:00	12:00																		
	12:00	13:00			Lunch															
	13:00	14:00					Chapter Awards Program		WGs Mtg				IS2016 Papers, Panels & Tutorials Selection			CAG Mtg				
	14:00	15:00																		
	15:00	15:30			Break															
	15:30	16:00					Chapter Awards Program		WGs Mtg				IS2016 Papers, Panels & Tutorials Selection			CAG Mtg				
16:00	17:00																			
17:00	18:00	SEP's Reception for ASEPs, CSEPs, and ESEPs.																		

	Start	End			BoD	CAB	Awards Comm's	TechOps Leadership	Working Groups	Sector / Chapter Leaders	Industry Outreach	Events Comm	IS2016 Technical Planning	Ways & Means	Certification	Fellows	Academic Council	INCOSE Foundation				
Monday	07:00	08:00	Registration	Cyber cafe					Systems Science Roundtable													
	08:00	09:00			Town Hall: INCOSE 5-year Objectives: Transformation and Impactful products																	
	09:00	10:00									WGs Mtg				IS2016 Papers, Panels & Tutorials Selection review		CAG Mtg			Academic Council		
	10:00	10:30			Break																	
	10:30	11:00									WGs Mtg	Ambassadors' Mtg			IS2016 Papers, Panels & Tutorials Selection review		CAG Mtg			Academic Council		
	11:00	12:00			Lunch																	
	12:00	13:00									WGs Mtg			Industry Outreach Board (IOB) Mtg	Events Comm Mtg							
	13:00	14:00			Break																	
	14:00	15:00					Chapter Awards Lean Improvement Initiative				WGs Mtg			Industry Outreach Board (IOB) Mtg								
	15:00	15:30			Break																	
	15:30	16:00					Chapter Awards Lean Improvement Initiative				WGs Mtg			Industry Outreach Board (IOB) Mtg					Fellows Mtg	Student Division Mtg		
16:00	17:00																					
Tuesday	07:00	08:00	Registration	Cyber cafe					Systems Science Roundtable													
	08:00	09:00								WGs Mtg												
	09:00	10:00												Events Comm Mtg		Ways & Means Mtg						
	10:00	10:30			Break																	
	10:30	11:00									WGs Mtg				Events Comm Mtg		Ways & Means Mtg					
	11:00	12:00			Lunch																	
	12:00	13:00									WGs Mtg											
	13:00	14:00			Break																	
	14:00	14:30									WGs Mtg											INCOSE Foundation Mtg
	14:30	15:00			Break																	
	15:00	16:00			Closing Plenary																	
16:00	18:30	Working Group Bazaar / Market Place and Closing Reception																				
Wednesday	08:00	09:00																				
	09:00	10:00			BoD Mtg																	
	10:00	11:00																				
	11:00	12:00																				
	12:00	13:00			Lunch																	

Saturday Opening Plenary

(charts available in Connect)

Administrative Report – as of 12/31/2015

- 9312 full members, a slight drop, but the number of CAB limited members has increased
 - Sector I: Americas 5,149
 - Sector II: EMEA 3,472
 - Sector III: Asia-Oceania 691
 - CAB Limited 1,822 (not in above total)
- 64 countries
- 69 chapters
- 70 CAB Members
 - New – General Motors, PTC, MBDA (UK) Ltd
- 24 Academic Council Members
 - New – Drexel University, Tsinghua University, University of Connecticut, University of Texas at Dallas

Saturday Opening Plenary

(charts available in Connect)

Treasurer's Report

- 2015: 17% increase in surplus over plan
- Planned 2016 Income - \$2.07M; Expenses \$2.17M
- 80% of income is from membership fees

Working Group Award Citations

- Outreach – Measurement WG
- Sustained Performance – Requirements WG
- Product of the Year – Product Lines WG
- Achieving the Vision – Standards Initiatives ISO/IEC JTC1 SC7 WG7

Service Awards for Outgoing Directors

Saturday Opening Plenary

(charts available in Connect)

- David Long's Final Words as President
- Installation of new Officers
 - Alan Harding, Gary Roedler, Steven Dam
- Alan Harding's President's Remarks
- IT Remarks



Saturday Opening Plenary

(charts available in Connect)

- Tech Ops Path Forward
 - 44 WGs
 - MBSE activities not a separate event but are fully merged into the IW program
 - Major focus of TechOps is to accelerate the transformation of SE to model-based; and impactful products
- Certification Remarks
 - # of SEPs continue to grow, from <2200 to 2387 by the end of 2015
 - 69% in Americas Sector,
 - 27% of those in the Americas Sector are certified

Sunday & Monday Town Halls

- BKCASE Project Update
 - GRCSE – broad look update planned for 2016
 - SEBOK – Sept update to incorporate MBSE, domain, and foundations info
- Tech Ops
 - Systems Engineering Transformation: Accelerating transformation to a model-based discipline
 - Some challenges – data rights/IP, data exchange
 - Impactful Products
 - More products public; less jargon; more accessible to members;

Closing Plenary and Other Notes

- 5-Year Objectives
 - Grow by doubling membership
 - Help raise systems engineering competency
 - HELIX (ATLAS Report); ILI (2nd Cohort being selected)
 - Amplify our efforts through alliances
 - ISA, Infraguard, AAMI, NAFEMS
 - Create and broker impactful products
 - Produce and support world-leading forums
 - Raise the quality of engineering education
 - GRCSE
 - Accelerate transformation of systems engineering (to model based)
- 485 IW registrants, same as 2015
- INCOSE Foundation has ~\$272k, raised ~\$10k at wine soiree; STEM K-12 Initiative planning in progress

Upcoming IW & IS

- 2016 International Symposium
 - Jul 18 - Jul 21
 - Edinburgh, Scotland
- 2017 International Workshop
 - Jan TBA
 - Orlando, FL
- 2017 International Symposium
 - TBA
 - Adelaide, Australia

INCOSE Power & Energy Systems WG

IW 16 Summary Report
4/26/2016

IW16 Summary: Power & Energy Systems WG

- PESWG meeting on 1/31/16 - 2/1/16
 - Approx 10 US participants ++
 - International (France, Sweden, S. Africa, Australia)
 - Held additional joint meeting with CIPR wg ~ 30 people
- Briefing on PESWG background & charter
- Report on progress and activity of PESWG
 - National effort to organize wg members
 - International outreach effort – sector organization
 - Cross –WG collaboration
 - External collaboration

PESWG Purpose, Scope, Charter

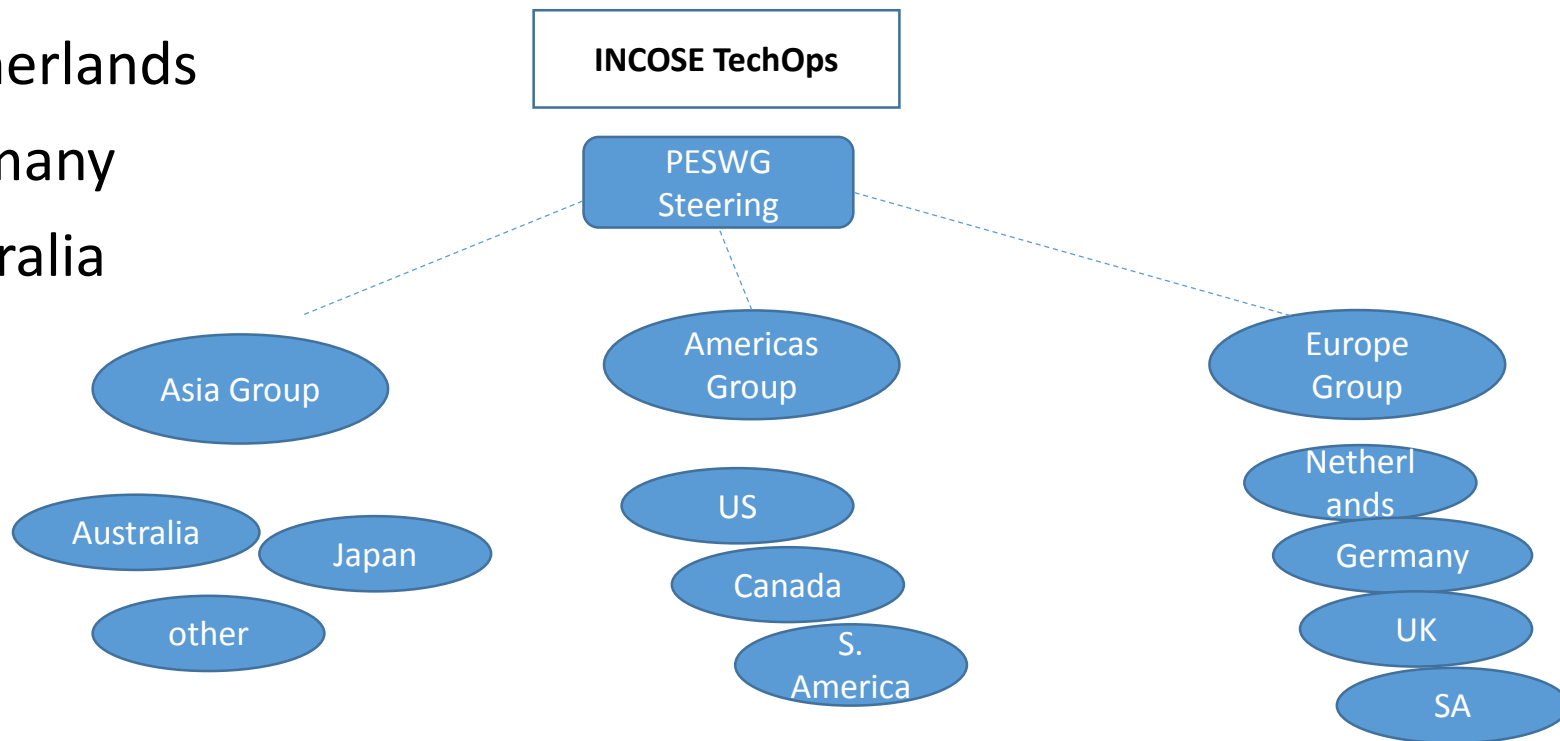
- Purpose:
Bring holistic Systems Thinking, effective SE practice, and modern MBSE methods to decision makers in Energy Sector development and policy
 - Apply full-scale SE lifecycle management to Energy Systems to deal with Risk, Vulnerabilities, Enviro-concerns, and Economics
 - Implement INCOSE Vision 2025 for Energy Sector
- Scope:
 - Systems Engineering authority for Energy in Space, Water, Terrestrial
 - Establish a SE-BoK for Energy Sector systems (via Wiki)
 - Evolving MBSE capabilities and module library for Energy Systems configuration

INCOSE PESWG - Accomplishments

- Organizing efforts: SE interest for PE since IW10 and IS11
- 2009 INCOSE Regional conference on Energy & Systems (a First..)
- Collaboration & Organization of SE track at ET 2013 --2016
- Partner & supporter for AIAA 2014 Power & Propulsion conference
- Good Relationship established with supporters in:
 - Industry : IBM, PTC, ViTech, Rel-First, AEP, First Energy, GE, ++
 - Govt / Institution: NASA, PUCO, SAE, IEEE, AIAA, USAF, GLEI
 - Academia: CASE Institute, CSU, Akron U, USAF Academy,
 - International: Netherlands, Germany, Italy, Australia,

PESWG Int'l Participants / Structure

- Netherlands
- Germany
- Australia
- Italy
- UK
- SA



PESWG Planned Work -- *2016 ++

- * GROW the PESWG membership... (IW16 + IS16 ++)
- *2016 EnergyTech Forum & conference – SE solutions for Energy
 - Plan, organize, execute conference w/ partners & sponsors
 - Use the Forum for national dialog, review of MBSE initiatives for Energy
- *Collaborate with International partners for PESWG & CIPR-WG evolution
- *Establish WIKI for knowledge capture of relevant power system elements, descriptions
- *Begin constructing a National Energy System Reference Model...
- * Continue support activities via CIPR to InfraGard & Gov. / Industry
- Engage Energy SE community for participation in VISION2025 discussions for Energy domain



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