



SE REVIEW



July 2009

Volume 9, Number 7



Next Board Meeting
13 August 2009
1130
Booz Allen
Hamilton
Expedition Bldg

Next Chapter Meetings
30 July 2009
1130-1300
Eagle System
Conference Room –
Please Join Us!

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President's Perspective

Colleagues,

We are coming up on the half-way point for the calendar year and have a lot to be proud of as an INCOSE Chapter. Most recently, we are coming off of one of our larger events from a cost and volunteerism perspective, the Unmanned Air Systems competition, hosted by AUVSI. We are the sponsors of the student reception and volunteer throughout the event to help with some of the logistics to host 18 teams as they compete with technical presentations and their flight trial. What an exciting and reinforcing event that there are skilled and talented individuals coming out of our technical college programs, capable of delivering on anticipated technical requirements for DOD. Thanks to all of our members that volunteered their time and interest for this very worthy cause.



Students with bonus target

We also had a very spur of the moment event where we conscientiously gave back to our membership by letting members and family come out to a Blue Crabs baseball game at a reduced price. We had ~ 25 attendees enjoy a very traditional ballpark spread of dogs, burgers, slaw and potato salad (and dessert) followed by a nicely played ball game. Unfortunately, our Blue Crabs were not the victors, but they played with heart and soul. This was a most excellent networking event, and we do hope to try this one again!

Onto our July schedule. We do have Mr. Don Gantzer, who is a senior SAIC Systems Engineer in the SE Support Office supporting ODUSD (A&T) Systems and Software Engineering (SSE), SE Policy and Guidance, speaking in July. Join us for a FREE lunch at the Eagle Systems Conference room from 1130-1300 on 30 July. He will be presenting the current ODUSD (AT&L) organization, roles and responsibilities; implications of recent policy related to systems acquisitions; and status of activities, with emphasis on SE standards and guidance. Hope to see you at this meeting with a very worthy and pertinent topic!

Respectfully,

Steve McKeown
President, Southern Maryland Chapter
president@INCOSE-SoMD.org

INCOSE News

CALL FOR NOMINATIONS - INCOSE 2009 General Election

We are calling for nominations for the remaining positions that need to be filled. The BOD has delegated the responsibility for collecting nominations and identifying candidates to the Nominations and Elections Committee. We ask you, the members, to identify INCOSE Members for this election. You may nominate yourself. In 2009, we need to identify candidates for the following positions:

Treasurer
Director of Strategy
Director of Communications

Position description information is available in the member's area on the INCOSE website <https://connect.incose.org/govern/Policies/Forms/AllItems.aspx?RootFolder=https%3a%2f%2fconnect%2eincose%2eorg%2fgovern%2fPolicies%2fPosition%20Descriptions&FolderCTID=0x01200025A2D0BE90825A4B96DE1910A8DA7478>. Please send the name of your proposed candidates to the Chair of the Nominations & Elections Committee: Virginia (Ginny) Lentz vlentz1@nc.rr.com before Saturday, 1 August 2009. Thank you in advance for your nominations.

Welcome to our newest CAB members

Three new firms have joined the INCOSE Corporate Advisory Board; Map systeme, Serco Defence, Science & Technology, and Tectura Corporation. The full list of CAB members can be found: <http://www.incose.org/about/organization/cab.cfm>.

INCOSE/Booz Allen Hamilton Sign Systems Engineering Certification Agreement

Booz Allen Hamilton and the International Council on Systems Engineers (INCOSE) have signed an agreement that will allow Booz Allen to leverage INCOSE's Certified Systems Engineering Professional (CSEP) and Associate Systems Engineering Professional (ASEP) certification program.

INCOSE Launches New Journal and Partnership with IIE

INCOSE is launching a new peer-reviewed publication called the Journal of Enterprise Transformation (JET) as part of a partnership with the Institute of Industrial Engineers. JET is part of a partnership with the Institute of Industrial Engineers (www.iienet.org), the world's largest professional society dedicated solely to the support of the industrial engineering profession and individuals involved with improving quality and productivity.

Published quarterly beginning in 2010, JET is designed to provide a forum for original articles on trends, new findings, and ongoing research related to enterprise transformation. JET's focus is on interdisciplinary research addressing enterprise transformation challenges within and across different domains such as aerospace, health care, financial services, government, and public-private partnerships. JET promotes a holistic approach to advancing the understanding of enterprise transformation by addressing challenges from technical, behavioral, and social perspectives.

The founding co-Editors-in-Chief will be Prof. Deborah Nightingale (past President of IIE) and Dr. Ricardo Valerdi (member of the INCOSE Board of Directors) supported by an international team of Associate Editors with expertise in management, industrial and systems engineering, information systems, organizational behavior, political science, and economics.



Dues Renewal Reminder

Those living in the USA, please renew online or send a check to the INCOSE office. If you pay through your bank, make sure they have the new address listed at the end of this email. If you have not yet renewed, please do so today to participate in the full range of INCOSE benefits and activities. If you have not received an email reminder or have questions regarding the renewal process, call INCOSE Central - 1-800-366-1164 or email info@incose.org.

A reminder that you can also renew your dues with your IS 2009 registration.

Schedule of *INSIGHT* Deadlines

The following is a list of upcoming INCOSE *INSIGHT* deadlines:

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
13 August 2009	3rd Qtr 2009	East Meets West - The Human Dimension to Systems Engineering	Pearly Chua
15 October 2009	4th Qtr 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier
15 February 2010	1st Qtr 2010	Technical Operations	Timothy Dilks
8 August 2010	3rd Qtr 2010	2010 International Symposium Coverage: Chicago, Illinois, USA	Jack Stein

Renew Your Membership

Don't forget to renew your membership. Your annual membership now expires 12 months after your enrollment anniversary. If you want to know what your enrollment date is and when your current membership will expire, just view your member profile <https://www.incose.org/membersOnly/memberInfo/updateMemberInfo.cfm>. Should you have problems or questions, e-mail Central Office (<mailto:info@incose.org>).

Update your membership profile

Did you know that you have the ability to reset your own password, change your address, phone number and employer, and even change the e-mail addresses you want your [incose.org](http://www.incose.org) e-mails to go to? Did you know that you can also update your biography and even your picture? To keep your membership information up to date, just go to www.incose.org. On the left side, select the option to View / Update Member Record.

Chapter Highlights

Outreach: Feature Story!

Blue Crabs Chapter Members Event Another Success

On Thursday, June 25th at 6:00 PM, the Southern Maryland Chapter of INCOSE staged a “members and family” event at Regency Furniture Stadium in Waldorf, MD, home of the Blue Crabs Independent Baseball League Team. Thirty-some INCOSE members, their families, and friends signed-up for this all-you-can-eat picnic and baseball game event, which the chapter helped underwrite the \$20 cost for its members and their families. The left field covered Red Hot & Blue Picnic Pavilion at the stadium was the perfect place to eat, watch the game, and mingle with the other attendees. The group enjoyed a marvelous two-hour all-you-can-eat buffet consisting of hot dogs, hamburgers, pulled pork sandwiches, potato salad, cole slaw, baked beans, banana pudding, and soft drinks. The game where the Lancaster Barnstormers prevailed over the Southern Maryland Blue Crabs (10 to 5) featured an exchange of 19 hits which produced 15 runs and was highlighted by the Barnstormers’ right fielder Ryan Mulhern’s 5th homerun of the season. Twenty-some door prizes were provided and distributed by the event organizer Karl Geist, who was honored by throwing out the first pitch of the game. The event was such a success the chapter is planning a similar outing for Saturday, 12 September 2009 when the Southern Maryland Blue Crabs take on last year’s league champions the Somerset Patriots managed by Cy Young Award winner and former New York Yankee Sparky Lyle. The next event is still in the planning stages, but for more information or reservations, please contact Karl Geist at 301-475-5646 or via email at kgeist@md.metrocast.net.

Southern Maryland Chapter Members at INCOSE IS09 in Singapore

By Jennifer Narkevicius

The INCOSE 2009 International Symposium was held in Singapore from 20 to 23 July at the Suntec International Convention and Exhibition Center. Hosted by the Singapore Chapter and five other Region VI Chapters (Australia, Beijing, Japan, Korea and Taiwan), this was the first IS to be hosted in Asia. This was the 19th Annual and was held at the same location and time with the 3rd Asia-Pacific Conference on Systems Engineering (APCOSE 2009). There were a total of 482 attendees at the event.

The conference opened with the Guest-of-Honor, Singapore's Deputy Prime Minister and Minister for Defense, TEO Chee Hean who clearly understands the importance of Systems Engineering – he was trained in SE. The theme for this year’s meeting was *East Meets West: The Human Dimension to Systems Engineering*, highlighting the dramatic expansion in the scope of contemporary Systems Engineering where the human component must be identified as an integral part in the Systems Engineering processes. Future systems, where the machines are designed around these people, will benefit from Systems Engineering best practices and processes. Systems engineering methodologies have been successfully applied to designing large-scale complex engineering projects that are multi-disciplinary in nature – and Singapore is an excellent example of applying systems engineering to the totality of programs.

Singapore is a convergence of robust technologies—a hub of exemplary minds and talents. The city-state’s key industries include transport engineering and logistics, aviation, oil and gas, petrochemicals and specialty chemicals, electronics and precision engineering, engineering and environmental technology, biomedical sciences, banking and finance, info-communications and media, education, and tourism. Singapore is an island and home to 4.35 million people. Visitors are sure to notice a couple of things about Singapore right off the plane: it is truly on the other side of the earth, it is very clean; the people are very kind and extraordinarily well educated. Singapore runs smoothly and has been designed to facilitate the activities of residents and visitors alike. The conference was broad ranging with talks from industry, government, and academia. Tutorials were presented on a number of topics including methods and tools, teaching, project planning, and risk management. The social events presented the best of Singapore’s diverse culture and provided delegates the opportunity to meet and interact in a light social situation.

Chapter Highlights (cont.)

The Southern Maryland Chapter was well represented...and even more well represented than initially thought. Four chapter members participated in the conference: Ken Ptack, Jen Narkevicius, Joseph Hornbuckle, and Chris Barrett. Joe and Chris are currently assigned to Naval Postgraduate School. We were all glad to meet up – but unfortunately we didn't do so until the Banquet the evening before the completion of the conference. All four are shown in the photograph.



Upcoming meetings include the INCOSE International Workshop (IW 2010), in Phoenix on 7 – 10 Feb and INCOSE International Symposium (IS2010) in Chicago 11 – 15 July. Start planning your exhibit booth, talk, or tutorial now! You won't want to miss it.

ISO/IEC 29110 Review Request

Ken Ptack would like to solicit the Chapter to be part of the INCOSE Review Team for the ISO/IEC 29110 Standard that he is working on for INCOSE. Ken has the latest draft and comment form available for use by whomever is willing to help. They are also looking for "Pilot programs" to use the Standard.

The ISO/IEC 29110 Set of Documents is being developed to help Very Small Entities (VSEs) (enterprise, organization, department, or project having up to 25 people) in contributing to the development of products and services to programs. Many VSEs develop and/or maintain software that is used in larger systems, which require high quality software. It has been found that VSEs find it difficult to relate ISO/IEC standards to their business needs and to justify the application of the standards to their business practices. Most VSEs can neither afford the resources, in terms of number of employees, budget and time, nor do they see a net benefit in establishing software life cycle processes. To rectify some of these difficulties, a set of guides are being developed according to a set of VSE characteristics. The guides are based on subsets of appropriate standards elements, referred to as VSE Profiles. The purpose of a VSE profile is to define a subset of ISO/IEC standards relevant to the VSE context, for example, processes and outcomes of ISO/IEC 12207 and products of ISO/IEC 15289.

The ISO/IEC 29110 Set of Documents, targeted by audience, is being developed to improve product and/or service quality, and process performance. There are five parts included in the Set of Documents. Parts 1 (Overview) and 5 (Management and Engineering Guides) are targeted to VSEs, Part 3 (Assessment Guide) is targeted for Assessors and VSEs, and Parts 2 (Framework and Taxonomy) and 4 (Profile Specifications) are targeted for standards producers, tool vendors and methodology vendors. If a new profile is needed, Parts 4 and 5 can be developed without impacting existing documents, and they become Part 4-x and Part 5-x respectively through the ISO/IEC process.

ISO/IEC 29110-1 defines the business terms common to the VSE Profile Set of Documents. It introduces processes, lifecycle and standardization concepts, and the ISO/IEC 29110 Set of Documents. It also introduces the business aspects, characteristics and requirements of a VSE, and clarifies the rationale for VSE-specific profiles, documents, standards and guides. ISO/IEC 29110-2 introduces the concepts for Software Engineering International Standardized Profile (ISP) for VSEs and defines the terms common to the VSE Profile Set of Documents. It establishes the logic behind the definition and application of ISP profiles. It specifies the elements common to all ISP profiles (structure, conformance, assessment) and introduces the taxonomy (catalogue) of ISO/IEC 29110 profiles. ISO/IEC 29110-3 defines the process assessment guidelines and compliance requirements needed to meet the purpose of the defined VSE Profiles. ISO/IEC 29110-3 also contains information that can be useful to developers of assessment methods and assessment tools. ISO/IEC 29110-3 is addressed to people

Chapter Highlights (cont.)

who have direct relation with the assessment process (e.g., the assessor and the sponsor of the assessment) who need guidance on ensuring that the requirements for performing an assessment have been met. ISO/IEC 29110-4-x provides the specification for Profiles that are based on subsets of appropriate standards elements. VSE Profiles apply and are targeted to authors/providers of guides and authors/providers of tools and other support material. ISO/IEC 29110-5-x provides an implementation management and engineering guide for the Nnnn VSE Profile described in ISO/IEC ISP 29110 Part 4-x. The fourth draft of the Set of Documents was developed during the May 2009 meeting. The final draft for ballot and ISO/IEC acceptance is scheduled to be completed in July 2010. Figure 1-1 describes the ISO/IEC 29110 Set of Documents and positions them within the framework of reference. TR means Technical Report.

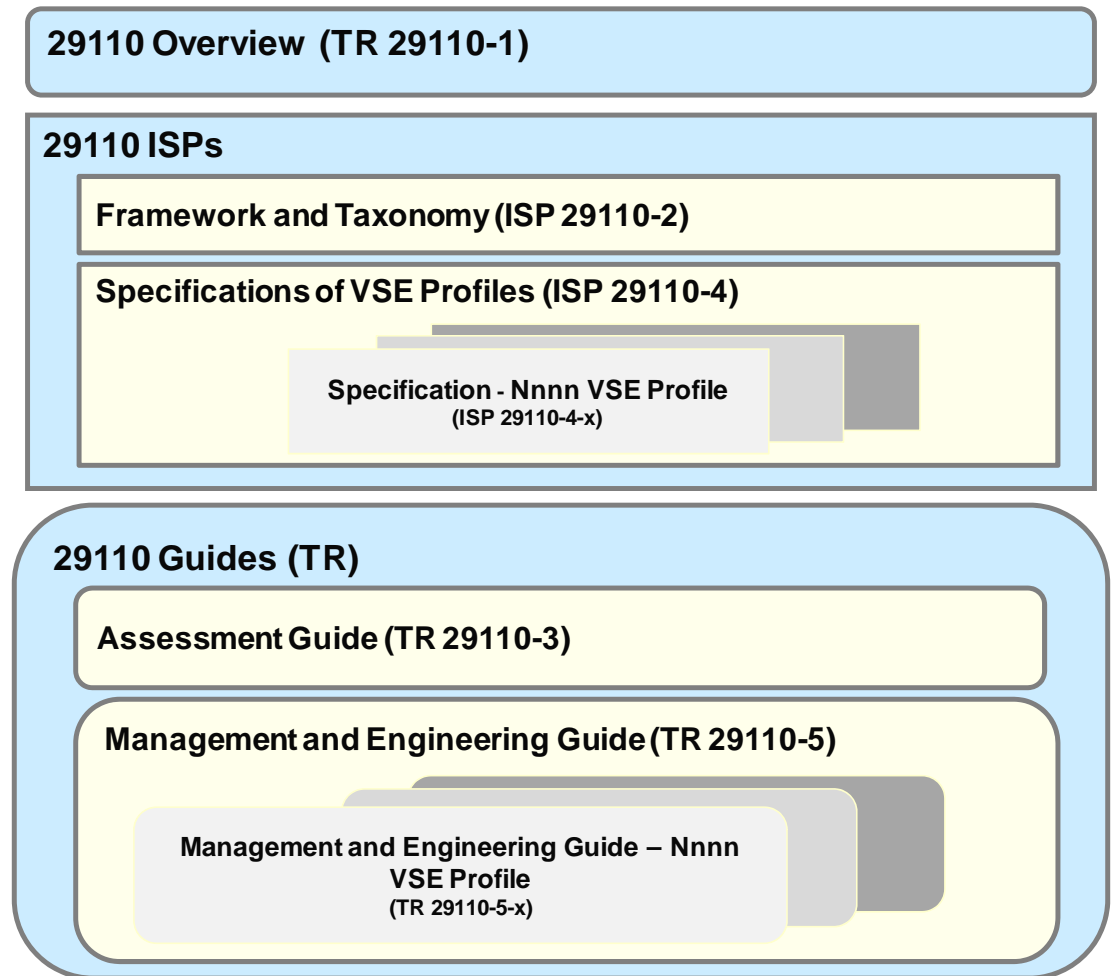


Figure 1-1 29110 Set of Documents

If interested, please contact Ken Ptack at Ken.ptack@incose.org, (301) 862-9555.

Member Profiles

Please welcome our new member:

Kelly Rogers joined on 22 June. She is a SE Consultant with Booz Allen Hamilton. Her e-mail is rogers_kelly@bah.com, and phone number is (301) 863-3443.

Kenneth Mathews, Jr. joined on 14 July. He is an Operations Center Analyst with SAIC. His e-mail is ken.mathews@email.com, and phone number is (410) 533-2798.

Chapter Highlights (cont.)

Member Contributions & Support Needed

We are in desperate need of more help, more involvement, more members, and more leadership from our current members to maintain our ambitious schedule of events. Also please send news on your projects at work, on your personal or professional achievements, any notable upcoming events the membership should know about, etc. Send electronic pictures, too! We continue to request that each of the Chapter members provide us with a brief bio, so everyone will get to know you a little better. This will also make it easier to network with other Chapter members. Please include items such as where you went to school and any degrees, current and past positions, INCOSE activities, and any other information you would like to share. Our newsletter can use your articles and your support. Please send all contributions to Karl Geist at kgeist@md.metrocast.net, Dawn Jaeger at Dawn.Jaeger@navy.mil, or Steve McKeown at mckeown_steve@bah.com. If you have any questions, please send an e-mail or call Dawn at 301-757-0907, or Steve at 301-862-7033. So, please consider volunteering and being part of the exciting opportunities in Systems Engineering. As current members, the Chapter Board of Directors (BOD) welcomes your feedback to the chapter's plans. Address these comments to any of the Chapter's BOD members found at the end of this newsletter. Thank you!

Upcoming Events

Southern Maryland Chapter Meeting

Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland

When: 30 July 2009, 1130-1300

Where: Eagle Systems Conference Room

Theme: Status and Activities on DoD's Systems and Software Engineering, from ODUSD (AT&L) SSE

Info: www.incose-somd.org

Speaker: Mr. Don Gantzer, SAIC

POCs: Dale Raney at 240-925-3455, Dale.Raney@incose-somd.org or Steve McKeown at 301-862-7033, Steve.McKeown@INCOSE-SoMD.org

Venue: Pizza and beverages for all attendees

Cost: Free

Description: Will present current organization, roles and responsibilities; implications of recent policy related to systems acquisitions; status of activities, with emphasis on SE standards and guidance.

Architecting with DODAF

Presented by Honourcode, Inc.

When: 13-14 August 2009

Where: Minneapolis, Minnesota

Info: <http://www.hcode.com/crsinfo-archdodaf.htm>

Cost: \$990—All new registrants can attend for a full 25% discount

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's systems do not stand alone; each system fits within an increasingly complex system-of-systems, a network of interconnection that virtually guarantees surprise behavior. Systems science recognizes this type of interconnectivity as one essence of complexity. It requires new tools, new methods, and new paradigms for effective system design. The DOD Architecture Framework (DODAF) provides an underlying structure to work with complexity.

This course provides knowledge and exercises at a practical level in the use of the DODAF. You will learn about architecting processes, methods and thought patterns. You will practice architecting by creating DODAF representations of a familiar, complex system-of-systems. By the end of this course, you will be able to use DODAF effectively in your work.

Upcoming Events (cont.)

Systems of Systems Technical Management in a Networked World

Presented by Honourcode, Inc.

When: 1-3 September 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-sos.htm>

Cost: \$1,390

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's environments are dominated by complex systems of systems. As a result, systems engineers now have the responsibility to create systems of unprecedented scope and complexity. These objectives are not the only challenge. The development environment for a system of systems is typically characterized by its own unique challenges, such as an extended life cycle, requirements to use legacy systems as components, and ongoing re-architecting throughout the lifecycle of the system and its component systems. Success under these conditions requires developing a sound design, managing complexity, maintaining the integrity of that design, and supporting shifting operational priorities over significant time spans while avoiding the lurking potential of chaotic conditions.

To meet these challenges, this course presents detailed, useful techniques to develop effective systems of systems and to manage the engineering activities associated with them.

Fundamentals of Systems Engineering

Presented by Honourcode, Inc.

When: 14-15 September 2009

Where: Beltsville, Maryland

Info: <http://www.hcode.com/crsinfo-fse.htm>

Cost: \$990

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's complex systems present difficult challenges to develop. From military systems to aircraft to environmental and electronic control systems, development teams must face the challenges with an arsenal of proven methods. Individual systems are more complex, and systems operate in much closer relationship, requiring a system-of-systems approach to the overall design.

This workshop presents the fundamentals of a systems engineering approach to solving complex problems. It covers the underlying attitudes as well as the process definitions that make up systems engineering. The model presented is a research-proven combination of the best existing standards.

Certified Systems Engineering Professional (CSEP) Preparation

Presented by Honourcode, Inc.

When: 16-17 September 2009

Where: Chantilly, Virginia

Info: <http://www.hcode.com/crsinfo-csep.htm>

Cost: \$990

POC: BetterSE@hcode.com, (850) 479-1985

Description: The INCOSE Certified Systems Engineering Professional (CSEP) rating is a useful and coveted milestone in the career of a systems engineer, demonstrating knowledge, education and experience that is of high value to systems organizations. The certification requires passing an extensive examination based on the INCOSE Systems Engineering Handbook v3.1. This two-day course provides you with the detailed knowledge and practice that you need to pass the CSEP examination.

This course walks through the CSEP requirements and the INCOSE Handbook to cover all topics that might be on the CSEP exam. Interactive work, study plans, and sample examination questions help you to prepare effectively for the exam. Participants leave the course with solid knowledge, a hard copy of the INCOSE Handbook, study plans, and a sample examination.

Upcoming Events (cont.)

Fundamentals of Systems Engineering

Presented by Honourcode, Inc.

When: 5-6 October 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-fse.htm>

Cost: \$990

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's complex systems present difficult challenges to develop. From military systems to aircraft to environmental and electronic control systems, development teams must face the challenges with an arsenal of proven methods. Individual systems are more complex, and systems operate in much closer relationship, requiring a system-of-systems approach to the overall design.

This workshop presents the fundamentals of a systems engineering approach to solving complex problems. It covers the underlying attitudes as well as the process definitions that make up systems engineering. The model presented is a research-proven combination of the best existing standards.

Architecting with DODAF

Presented by Honourcode, Inc.

When: 10-11 November 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-archdodaf.htm>

Cost: \$990

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's systems do not stand alone; each system fits within an increasingly complex system-of-systems, a network of interconnection that virtually guarantees surprise behavior. Systems science recognizes this type of interconnectivity as one essence of complexity. It requires new tools, new methods, and new paradigms for effective system design. The DOD Architecture Framework (DODAF) provides an underlying structure to work with complexity.

This course provides knowledge and exercises at a practical level in the use of the DODAF. You will learn about architecting processes, methods and thought patterns. You will practice architecting by creating DODAF representations of a familiar, complex system-of-systems. By the end of this course, you will be able to use DODAF effectively in your work.

2010 INCOSE International Workshop

When: 7-10 February 2010

Where: Phoenix Marriott Mesa, Phoenix, Arizona

Theme: Various Committees, Working Groups, and Certification Beta Test

Info: <http://www.incose.org/>

POC: PCMI, (858) 565-9921

Description: The workshop features many committee and working group meetings such as the Certification Working Group, Handbook Working Group, INCOSE Fellows, the Corporate Advisory Board, Certification Advisory Group, Certification Beta Test, etc.

2010 INCOSE International Symposium

The 20th International Symposium -- Hosted by Region IV Chapters

When: 11-15 July 2010

Where: Hyatt Regency O'Hare, Chicago, Illinois

Theme: TBD

Info: <http://www.incose.org/symp2010>

POC: INCOSE Central Office, info@incose.org, 800-366-1164

Description: TBD

SoMD BOARD OF DIRECTORS

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