



The NorthCoast Interfacer



<http://www.incose.org/cleveland/index.htm>

President's Corner



It is a great pleasure to announce that INCOSE has recognized the Cleveland-Northern Ohio Chapter “for contributions and accomplishments to the highest goals and standards” during Calendar Year 2013. On Wednesday, July 2, during the Annual INCOSE International Symposium, longtime C-NO Member Karen Weiland (of the NASA Glenn Research Center) proudly accepted the Silver Circle Chapter Award on behalf of our Chapter.

Congrats to the 2013 C-NO Chapter Leaders and volunteers! Many thanks for all your hard work, under the leadership of Cody Farinacci [C-NO President (2013)].

EnergyTech 2014, held at the Cleveland Convention Center at the end of July, was another fine success—thanks to the expert management of C-NO Members John Juhasz, Ray Beach, and Carl Dister.

Don't forget to register for the INCOSE Great Lakes Regional Conference, to be held in Schaumburg, Illinois, October 10-11, 2014. The deadline for Early-Bird Registration is Midnight Central Time, September 15. Register here: <http://tinyurl.com/putnoye>

Bill Klinger
C-NO President (2014)



Karen Weiland accepting Silver Circle award at IS 2014

Member Profiles

Every month, as Membership Chair, I check the Chapter Membership listing to see if we have gained new members, or if memberships have lapsed. This listing is also the primary source used to create the Chapter's email reflector distribution list. The Chapter membership listing draws upon information in each member's profile to populate many of the fields, including email addresses and employer. In reviewing this listing, I have noticed that some active members have some obviously incorrect information in their profile and occasionally reflector emails bounce because of outdated email addresses in member profiles. I would encourage you to take a couple minutes to check your profile to make sure it is up to date. You can check it by going to the INCOSE Home Page and clicking on the "View / Update Member Record" link (<https://www.incose.org/membersOnly/memberInfo/updateMemberInfo.cfm>) on the left hand side. You will need to use your INCOSE username and password to access your profile. If you have any issues with updating your profile, I would recommend contacting the INCOSE Office.

- submitted by Dennis Rohn, Membership Chair

Upcoming Events

October 10-11, 2014

INCOSE Great Lakes Regional Conference (GLRC 2014), "Systems Engineering Across the Lifecycle"; Schaumburg, Illinois.

<http://2014incoseregional.eventbrite.com>

Recent Chapter Meetings

July 29, 2014

The C-NO Board of Directors collaborated with the leaders of the INCOSE Power & Energy Systems Working Group (PESWG) to plan the "Goodtime III Outing," which replaced the regular C-NO Chapter Meeting for July.

The outing was developed in connection with EnergyTech 2014 and the AIAA Propulsion and Energy Forum and Expo, held jointly at the Cleveland Convention Center, July 28-30.

One objective of this special event was to reward the speakers, panelists, and moderators who contributed to the success of EnergyTech 2014 with free admission to the cruise and dinner. We are grateful for generous funding from INCOSE Tech Ops (via PESWG), IEEE, and the C-NO Chapter Treasury. The Chapter subsidy allowed C-NO Chapter Members and their guests to enjoy the cruise and dinner for \$30 per person—one-half the usual price.

Our members, EnergyTech colleagues, and IEEE and AIAA guests gathered on the East 9th Street Pier for a casual meet-and-greet, starting at 5:30 PM. We were honored by the presence of *two* INCOSE Presidents: David Long and John Thomas.

At 6:00 PM, we boarded the *Goodtime III*, a “quadruple-deck 1,000-passenger luxury ship”—the largest sightseeing vessel on the Great Lakes. Thirsts were quenched at the cash bar, which offered a number of surprisingly good beers and wines. Nine tasty items in “Captain Jim’s Favorite” Dinner satisfied our hunger.

The ship sailed at 6:30 PM, for a two-hour cruise along the Lake Erie shoreline and the Cuyahoga River. Even lifelong Clevelanders had a rare opportunity to view the city skyline, Whiskey Island, and the Flats from shifting vantage points on the water, while a recorded narration described sites of fascinating historical interest.

Mild, dry weather made it comfortable to roam the entire Second Deck of the ship, leisurely taking in the diverse architectural sights and a beautiful sunset.

Our sole regret is that more C-NO Chapter Members should have enjoyed this *delightful* outing!

August 19, 2014

We met at Moosehead Hoof & Ladder restaurant in Olmsted Falls.

It was a joy to welcome three new attendees: Tim Glavin, Jason Kohlman, and Roberta Murnyack. Each told us a bit about their work and interests.

Marian Cronin (C-NO Treasurer and Systems Engineer at Vantage Partners, LLC) kindly stepped in to prepare the program, while Katie Trase was away on NASA business.

Marian intended to lead a review and discussion of *Model-Centric Engineering, Part 2: Introduction to System Modeling*, a video featuring Steve Jenkins (of the NASA Jet Propulsion Laboratory). Unfortunately, an audiovisual problem kept us from studying the video. Marian did her best to orally describe the Part 2 topics, but she recommended that we plan to view and discuss the video at the September Chapter Meeting.

The (SysML) Model Wedding

Katie Trase

Introduction

I am getting married. It is surreal.

I would have been quite happy to simply go to the courthouse—local or otherwise—with my fiancé. But, as any good systems engineer must, I had to consider my stakeholders. I had been assured that certain family members would be eternally disappointed if I didn’t have a wedding. So here we are.

The nerdy systems engineer in me sees this wedding as a small system. Is it not the aggregation of family, friends, rings, ugly bridesmaid gowns, a fancy dress and suit, flowers, doing the “YMCA,” food, drinks, and awkward toasts that produces “the wedding feel”? (At least, according to the wedding industry!) Remove a few items from that list, and you have an ordinary party—the “emergent behavior” is not the same.

Thus, to keep my systems modeling skills fresh and plan my wedding at the same time, I volunteered to build “The (SysML) Model Wedding” and write a series of articles on my

progress for this newsletter. Having article deadlines motivates me to actually work on the wedding instead of waiting until the last minute. (I'm sure nobody wants to see my emergent "Bridezilla" behavior!) Folks who read the articles and examine the SysML diagrams might learn a bit, along the way.

Setting up the Model: Defining the Wedding Purpose

Like any worthwhile endeavor, I began this process with the end in mind. I defined our wedding's "use cases" by considering what my fiancé and I want our day to be about, and created the SysML Use Case Diagram (Figure 1). Ideally, all of the identified stakeholders should contribute to a *great* day.

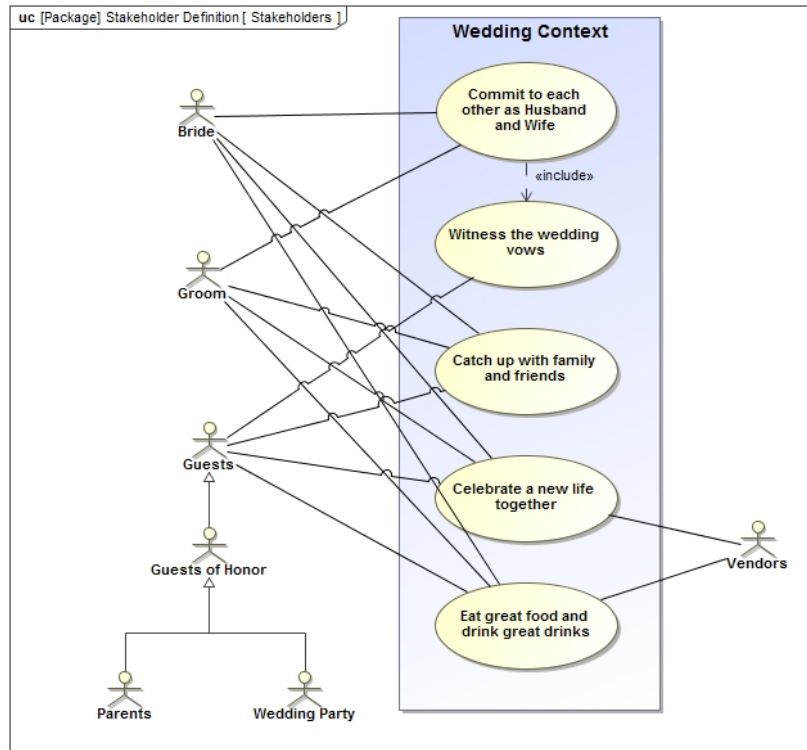


Figure 1 Wedding Stakeholder Definition in a Use Case Diagram

Setting up the Model: Defining Parts of a Wedding

A plethora of websites offer "the-only-wedding-checklist-you-will-ever-need." I created an account at one of these websites in early August and indicated that our wedding date is mid-June 2015. The website tells me I already have 102 To-Dos, 23 of which are overdue! (This wouldn't be a true project if I weren't immediately behind schedule, right?) I took the major sections from that checklist and generated the SysML block hierarchy that defines my wedding (Figure 2).

I pondered how to break down the elements and concluded that this approach looks good. (It's a lot like defining a Work Breakdown Structure.) For example, I could have made a separate heading for "Attire," and grouped The Dress, Groom's Suit, Groomsman Suits, and Bridesmaid Gowns in that section. I decided against that because I personally find it easier to think about

“wedding elements” that are associated with an individual (“We still need to find Bridesmaid A her dress!”).

I’ve likely forgotten a few top-level blocks, but I’m confident I’ll be reminded to create them as I build the rest of the model. (That’s one benefit of working in a model in the first place!) Moreover, I have multiple enthusiastic stakeholders that won’t *let* me forget the details, and for that, I am grateful. Now, if I can just teach them to model...

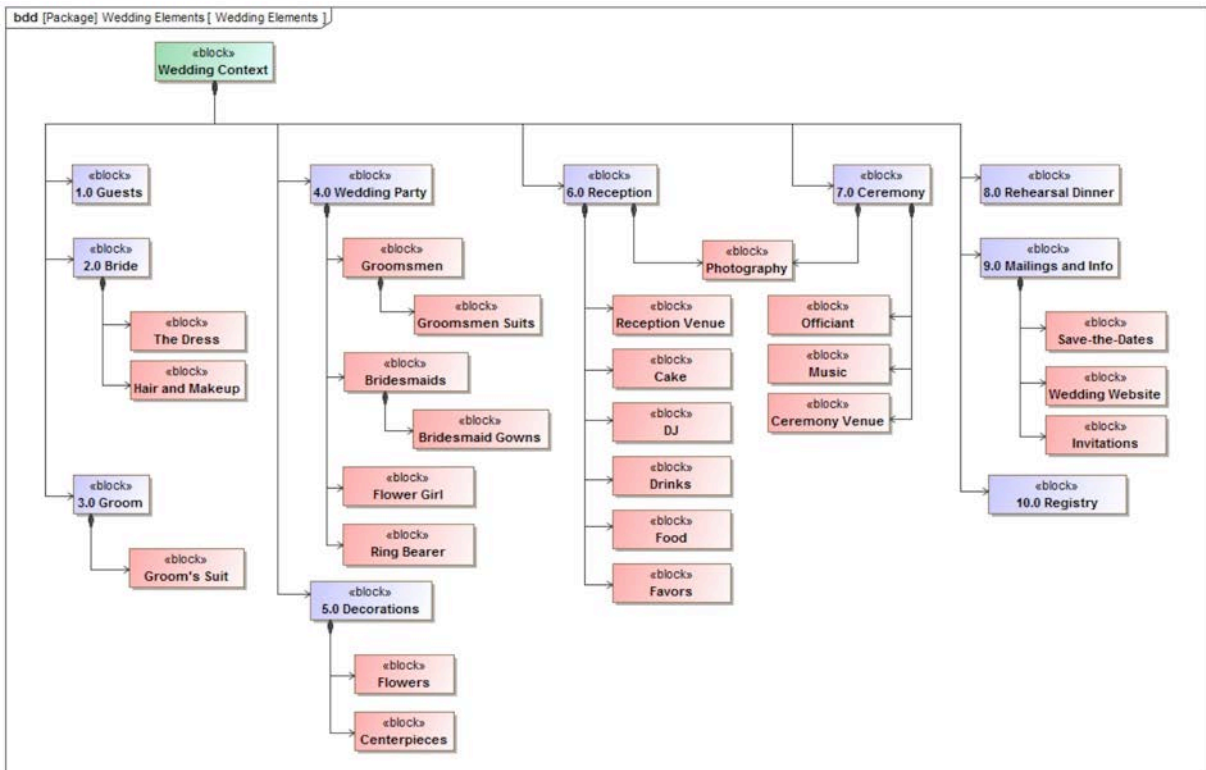


Figure 2: Wedding Element Definition in a Block Definition Diagram

Employment connections

Job Seekers

Sean Beckman - I am currently seeking employment as a systems engineer so in the North East Ohio area. I have been a systems engineer for over 13 years mostly in the area of government contracting in aerospace with some in commercial aircraft. Most of the time has been at NASA but also subcontracting to Boeing on the 747-8 commercial aircraft and most recently supporting the Army with trade studies. I hold an active secret clearance. I have experience in requirements management, risk managements, model based systems engineering, trade studies, systems architecture, interface definition and integration and verification.
sean.beckman@incose.org

Consulting Services

TBD

Job Openings

TBD

Did you know?

We may think of Systems Engineering as a relative newcomer into the interdisciplinary fields of engineering, but as early as 1949, the US Navy Electronics Laboratory in San Diego recognized the concept of systems engineering as a means to convert new ideas into “practical pieces of equipment for use by the fleet.”

-From a March 1949 article in Popular Mechanics magazine.

Like us on Facebook

If you are on Facebook, search for [Cleveland-Northern Ohio INCOSE Chapter](#) and “like” us. And of course don’t forget to check our website for information and updates.
<http://www.incose.org/cleveland/index.htm>



2014 Chapter Officers:

President:

Bill Klinger

Bill.Klinger@incose.org

Vice-President:

Carl J. Dister

Carl.Dister@incose.org

Secretary:

Katie Trase

kathryn.trase@incose.org

Treasurer:

Marian Cronin

marian.cronin@incose.org